PC.2402



Annual Report on the Public Health in Sind for the year 1936.



[Price:-Rs. 1-10-0 or 2s. 9d.]

KARACHI:

PRINTED AT THE GOVERNMENT PRESS
1938

Copies obtainable from the Manager, Sind Government Book Depot and Record Office, Karachi (Saddar).



ANNUAL REPORT ON PUBLIC HEALTH, 1936.

CONTENTS.

		Снарт	rer I.				
M. da la su Francis C	3 :4:	i. Dulgas al	f Food C	raina ata		Para,	PAGE.
Meteorology: Economic C	onaitions,	i.e., Prices of	r roou G	rams, etc.—			
Rainfall	•••		•••	•••	•••	I	I
Economic conditions	•••	•••	• • •	•••	•••	2	1
s	*	Снарт	ER II.	,	,		
Tr. 1 C	D1. (**	A Rusiana	4: 4 1				* *
Vital Statistics (including l	Population	and Emigra	tion and i	ımınıgration)			I
Population					• • •	I	I
Changes in Area	•••	•••	•••	•••	4 • •	2	2
Luropean and Anglo Ind	lian Vital	Statistics .	•••	• • •		3	2.
Indian Births		hinth unter a	 of other E	···	•••	4	3.
Provincial birth-rate com Birth-rates in Collectora	•		or other t	iovinces	• • •	5 6	4 5
Birth-rates in rural areas		• • •	•••	•••	• • •	7	5 5 5 5 5 5 5 5
Birth-rates in urban areas		•••	••	• • •	• • •	8	5
Births in Karachi City	•••	•••	•••	•••	•••	9	5
Births in Cantonments	• • •	•••		•••	***	10	5.
Bi the according to Sex Still-births	•••	•••	•••	•••		12	5
Verification of Vital stat		• • •	•••	• •	•••	13	5.
Deaths	,			• • •	•••	14	6
Death-rate compared with		other Provin	nces	• • •	•••	15	6
Death-rates in Collectora		• • •	•••	•••	• • •	16	7
Death-rates in rural area Death-rates in urban area		• • •	•••	•••	•••	17 18	7
Death-rates in Cantonmo		• • •	• • •	•••	• • •	19	7
Excess of births over dea		• • •	• • •	•••	•••	20	7
Deaths according to Sex			• • •	• • •	• •	21	8.
Deaths by caste or class				•••	•••	22	8.
Deaths according to caus Infant mortality	ses compar				•••	23 24	8 8
Infant mortality in the P	rovinces	• • •	•••	• • •	•••	25	9
Infant mortality in urban	n and rural	areas	• • •	• • •	•••	26	9
Summary of Vital Statis	stics of the	chief towns	• • •	• • •	• • •	27	10
		Снарт	ER III.				
The state of Public Health	in the Dro	wings and H	listowy of	Chief Diges	205		
The state of Fublic Health	in the ric	vince and 11	istory of	Ciliei Diseas	565—		
General remarks on the l				•••		I	12
Fevers (General Prevaler			• • •	•••	• • •	2	12
Fever mortality in the property Death-rates from fevers in			• • •	•••	• • •	3	13.
Death-rates from fevers			s	• • •		4 5	13
Enteric fever	•••	•••)	•••	6	14
Deaths from enteric feve	er in urban	and rural are	eas	•••	•••	7	14
Measles		1	• • •	• • 1	• •	8	4
Deaths from measles in			• • •	• • •	• • •	9	14
Relapsing fever Kala-Azar	•••	• • •	• • •	•••	• • •	10 11	15 16
Typhus	•••	•••		494	•••	12	16
Cerebro spinal fever	•••		• • •	•••	•••	13	16
Respiratory diseases (Ge			- :	•••	•••	14	16
Deaths and death-rates f Death-rates from respira				ous years.	•••	15 16	16
Death-rates from respira					•••	17	16 16
Seasonal mortality of re			• • •	•••	•••	18	17
Phthisis and measures ag	gainst it	• • •	• • •	• • •	• • •	19	17
Deaths from phthisis by			•••	•••	• > •	20	17
Death-rates from phthisi Pneumonia (General Pre		and fural are	eas ,	• • •		21 22	18
Death-rates from pneum			l areas	•••	•••	23	18
Dysentery and Diarrhoe				•••	•••	24	18
L (IV) 2477							

		. ,			Paras.	Page.
Death-rates from dysentery and dia	arrhœa in the	previous	years by Co	llec-		-0
torates		•••	• • •	•••	25	18
Death-rates from dysentery and diar	rhœa in urba	in and rural	areas	• • • •	26	19
Injuries	•••	•••	•••	•••	27	19 2 0
Details of deaths from injuries	•••	•••	•••	•••	28	
Deaths from Snake-bites	••	•••	•••	•••	29	20 20
Deaths from Rabies	•••	•••	•••	•••	30	20
Details of Suicidal deaths	•••	•••	••	• • •	31	21
Deaths from other-causes	•••	•••	•••	•••	32	21
Deaths from child-birth	• • •	• • •	•••	•	33 34	21
Deaths from child-birth in previous	years	•••	***	•••	35	22
Deaths from child birth by Collector	rates	•••		• • •	, 33 , 36	22
Deaths from child-birth in urban an	d rural areas			••• (37	22
Diphtheria	• • •	• • •	***	•••	31	
	Снартв	ER IV.				
Fridamiology						
Epidemiology,— Cholora (General Prevalence)	***	•••	•••	• • •	I	23
Cholera (General Prevalence) Deaths from cholera in previous year	ars	•••		• • •	2	23
Deaths from cholera by Collectorate	S	•••	•••		3	24
Deaths from cholera by Concetorate Deaths from cholera in urban and re	ural areas	•••		•••	4	24
Brief history of cholera		•••	•••	,	5	24
Preventive measures	•••	• • •	• • •	•••	6	24
Expenditure on cholera	• • •	•••	• • •		7	25
Small-pox (General Prevalence)	•••	•••	•••	•••	8	25
Deaths from smallpox in previous y		•••		•••	9	26
Deaths from smallpox by Collectors	ates	• • •	•••	• • •	10	26
Deaths from smallpox in urban and	rural areas	•••	•••		II	27
Steps taken by the department in ru	iral areas		***	•••	12	27
**		• • •		•••	13	27
Plague (General Prevalence)	•••	•••	• •	• •	14	27
Deaths from plague in previous year		•••	• • •	•••	15	27
Deaths from plague by Collectorate	S	•••		• • •	16	27
Deaths from plague in urban and ru	iral areas	•••	•••	•••	17	27
Ratting operations	•••	•••			18	28
Anti-plague measures	•••	•••	•••		19	28
Inoculations	•••	•••			20	28
Influenza	• • •	•••	•••	• • •	21	2 8
Deaths from influenza in previous y	years	•••	<• ·	•••	22	28
Deaths from influenza in urban and	d rural areas	•••	•••	•••	23	2 9
Deaths from made at the		17				
*	Снарт	EK V.				
Fairs and Festivals.—						
Fairs and Festivals		• • •	• • •	•••	1	· 29
Faits and restrais						
	Снарті	ER VI.				
Urban Sanitation (including Notified	Areas)—					
					I	29
Number of Medical Officers of Hea		•••	• • •	•••	2	30
(Author of Marital)	•••	•••	•••	•••	3	30
Municipal Sanitary works Expenditure on Public Health in N	 Innicipalities		• • •	•••	4	30
Municipal water supplies. Results	s of water an	alvsis).	•••	•••	5	30
Municipal water supplies. Acoust	of water an		•••	• •	6	31
Intectious Diseases Hospital	•••					
• •	Снарти	ER VII.	•			
* * * * * * * * * * * * * * * * * * *	· Rural S	ANITATION				
A.c. PE						
District Health Officers	• •	• • •	• • *		I	31
Land acquisition in villages	*	• • •	•••	• • •	2	31
Village water-supply "	• • •	•••	•••		3	31
District and Taluka Local Board	0 L • •	• • •	• • •	• • •	4	32
Village sanitary boards	• • •	. • •	•••	•••	5	32
Sanitary Committees	•••	•••	• •	• • •	6	3 2
	1 81181 1181 1881					
	LEGIELGIELGIEL					



							PARA.	PAGE.
	C + h	60	. Сн.	APTER V	III.	*e * ,	•	
_1	Malaria—	b e 6				1 (Ť
	Incidence						T	20
	Deaths from malaria in	Collectorat	es	• • • • •	•••	, , ,	1 2	32
A	Relation of deaths from			n fevers	•••	• • • •	3	33
	Seasonal mortality of m	alaria	•••	•••	•••	•••	4	33
	Deaths from malaria in		rural areas	•••	~ •••	6 · 6 · 6	5	33
	Anti-malaria measures	•••		•••	600	(n.a	6	33
	Government measures Distribution of Quinine	•••	•••	• • •	• • •	n n q •••	7	34
	Special inquiries and inv		•••	• • •	•••	10 •••	9	34
		- Sugarione		PTER IX	4	rieds. II	9	34
			CHAI	FIER IX.	•			
_1	Maternity and Child Welfa	are.—			•		·	
	Urban	•••	•••		• • •	• • •	I	35
	Rural areas	•••	• • •	•••	•••	•••	2	35
	Miss Piggot's Dais' Imp	rovement S	cheme (H	yderabad	l Sind).	***	3	35
			Сна	PTER X.				
·S	chool Hygiene and Medic	al Inspection	on of Schoo	ol Childre	en	***		36
	78				•••	· · · · · · · · · · · · · · · · · · ·		30
			Снар	TER XI.			,	•,
H	Health Propaganda—					, ,		
	Associations	***	•••	•••			~/ I	36
	Red Cross Society	•••	• • •	•••	•••	•••	2	36
	Public Health Departme	nt	•••	•••	•••	•••	3	3 7
	Village uplift	•••	• • •	• • •	•••	0 004	4	37
			Снарт	rer XII.				
į.	ublic Health Administrat	ion—	49		,		* * *	
Ī								
	General Administration	of the Depa	artment Bu	ıdget all	lotments, in	creases		
	decreases etc. Selected district	• •	•••	***	•••	0 940	I	37
	Training of public health	 personnel	•••		•••	• • •	2	38
	g or paone near	Porsonnes			••	••6	3	38
		FQ.	Снарт	ER XIII	•	1		
V	accination—							
	Changes in the strength	of establish	nment					-0
	Primary vaccinations	···	inneric ,	•••	•••	• • •	I	38
	Results	• • •	•••	•••	• • •	•••		38 39
	Age and Sex	•••	•••	• • •		•••	4	39
	Re-vaccinations	• • •	•••	• • •	• • •	•••	5	39
	Vaccination of pilgrims a			• • •	•••	0 0 0	6	39
	Primary and Revaccinat	ions in Indi	an States	•••	•••	•••	7	39
	Cost of vaccination	•••	• • •	• • •	• • •	•••	8	40
	Vaccine Institute Compulsory vaccination	• • •	• • •	• • •	•••	•••	9	40
	Diagram		• • •	•••	* * *	••	10	40
	General remarks	• • •	• • •	* • •	• • •	•••	11 12	40
		•••	,			••.	12	40
			СНАРТ	ER XIV.				
0	ther Public Health Service	es. 						
	Public Health Laboratori		1010-0	•••	***	•••	I	41
	Number of samples exam	nined in the	Laboratory	7	• • •	•••	2	41
	Examination of water su	pplies	•••	• • •	• • •	•••	3	42
	Diagnostic work	• • •	• • •	• • •	• • •	* * *	4	42
	Public Analyst	e ote	0. 01 0		**	• • à	5	42

					PARA.	PAGE.
Industrial Hygiene including Hygiene	ene of Mine	es	•••	•••	6	43
Port of Karachi (General Remarks))	•••	•••	• • •	7	43
Out-going vessels	•••	•••	•••	•••	8	43
In coming vessels		•••	•••	•••	9	43
Synopsis of outward and inward M	edical Insp	ection an	d Disinfection	on	10	43
Plague and Cholera		•••	• • •	•••	11	44
Smallpox		•••		•••	12	44
Chickenpox	•••	•••	• • •	•••	13	44
Acute Pneumonia		• • •	***	• • •	14	45
Measles	•••		• • •		15	45
Scarlet Fever		•••		•••	16	45.
Dinhthoria	•••		•••		17	45
Mumps, Beri-Beri, Yellow Fever,					18	46
Deaths due to non-notifiable dis	eases occu	iring on	vessels at sea	a or in	19	46
harbour except Pilgrim ships.					2 0	46
The Red Sea Pilgrim Traffic	a chine	,		sh i +	21	47
Statement showing the names of the	n nort		***		22	47
Importance of Karachi as a pilgrin	ii poit	•••	•••	• • •	23	47
Inward pilgrim ships	ine	•••	•••		24	48-
Details of the in-coming pilgrim sh	iiþs		• • •	•••	25	48
Clayton Apparatus Inspection of crew's stores and pro-	wicione as 1	 required 11		or of	26	48
Inspection of crew's stores and pro	visions as i	required a		. 9. •.		40
the Indian Merchant Shipping A				•••	27	49
Micarcar	• • •	• • •		•••	28	49
Anti-rat campaign	and City	• • •	• • •		29 🐔	49
Sanitary condition of the Harbour	and City	• • •	7 0 0 8 4 0		30	50
General remarks	• • •	• • •	• • •	•••	31	50-
Staff		3777	• •	•••	3-	50
	· Chap	TER XV.	\$			
	F - 4		•	,		
General remarks—	,			de r		
Nutrition	• • •	•••		• • •	I	50
Stegomyia mosquito control in the	e major sea	a ports of	In d ia	•••	2	50
Public Health Acts	•••	•••	•••	••	3	50
Public Health Essays	···	• • •	1 9 4	• • •	+	50
Personal proceedings and Office	•••	• • •	+ hm	• • •	5	51
1			~			
, \	. APP	ENDICE	S.			
	A ny					
	API	PENDIX I.				
Table showing Health Services in R	Pural Urbai	n areas.				54-55
Table showing Health Services in Is	curar Orbai	ar dreds.				51 55
	APP	PENDIX II.				
Table showing the annual income an	d expendit	ure of In	stitutions ur	ader the		57
Public Health Department.				6		
	APP	ENDIX III	•			
						PO PA
Annual Form No. I Births.						58-59
Annual Form No.I(a) Still Birth	is.		•			58-59
Annual Form No. II Births and	d Deaths.			1		66.60
Annual Form No. III Deaths by						66-69
Annual Form No. IV Deaths by	y Ages.					70-79
Annual Form No. V Deaths by	y classes a	nd by sex,	, 1 'C - 11	Comment	wath an	78-79
Annual Form No. VI Deaths by	districts a	and towns	.classified by	Causes to	gether	00.07
with def		ths.				80-87
Annual Form No. VI (a) Deat	tails of Birt					
	hs by distric	cts and to	wns classified	l by certain	diseases	88-95.
Annual Form No. VII. Deaths:	hs by distric	cts and to	wns classified	l by certain	diseases	96-97
Annual Form No. VII. Deaths:	hs by distric	cts and to	wns classified	l by certain 	diseases 	
Annual Form No. VII. Deaths: Annual Form No. VIII Deaths: Annual Form No. IX Deaths:	hs by distric from Chole frem Small from Fever	cts and to era pox	• • • • •,•	l by certain 	•••	96-97
Annual Form No. VII. Deaths: Annual Form No. VIII Deaths: Annual Form No. IX Deaths:	hs by distric from Chole frem Small from Fever	cts and to era pox	• • • • •,•	•••		96 -97 98 99
Annual Form No. VII. Deaths in Annual Form No. IX Deaths in Annual Form No. X Deaths i	hs by distriction Chole frem Small from Fever from Dysen	ets and to era pox es ntery and	 Diarrhœa	•••	•••	96-97 98 99
Annual Form No. VII. Deaths: Annual Form No. VIII Deaths: Annual Form No. IX Deaths:	hs by distriction Chole from Small from Fever from Dysen from Respi	ets and to era pox es atery and ratory dis	 Diarrhœa	•••	•••	96-97 98 99 100-101 102-103

APPENDIX IV.

Statement No. I showing the particulars of vaccination in Sind during the year 1936-37.

Statement No. II showing the number of persons primarily vaccinated and the number

of those persons who were successfully vaccinated in each of the official years

ending 31st March 1927-37

CHARTS.

130-131

I.	Total deaths by causes, etc	• • •	• • •		rg PAGE tispiece)
II.	Death-rates by age periods, etc	• • •	• • •	•••	6
III.	Chart showing Infant mortality rate	• • •		• • •	IO
IV.	Comparative diagrams of deaths by causes, etc.	• • •	0.04,	• • •	12
V.	Chart showing mortality rate from Fevers to Ma	ılaria			14
VI.	Weekly incidence of deaths from Epidemic disea	ises	• •••	• • •	22
VII.	Annual incidence of deaths from Epidemic disea	ses	• • •		24
VIII.	Chart showing success rates of primary vaccination	ions		•••	38

WELLCOME

LIBRARY

Ann.Rep

WA28

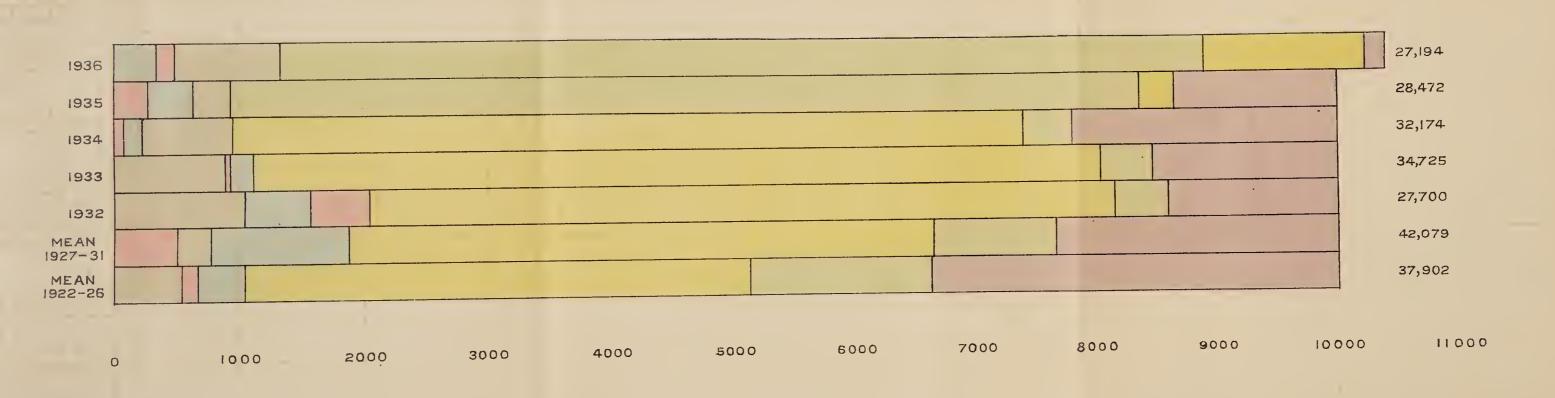
S 61

1936

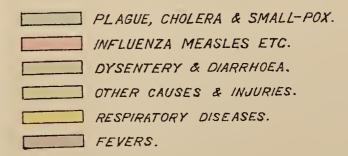
L (IV) 2477

.

CHART I.
DEATHS IN 1936 AND PREVIOUS YEARS.



THE ACTUAL DEATHS FROM FEVERS ARE MENTIONED IN FIGURES.



Digitized by the Internet Archive in 2019 with funding from Wellcome Library

Annual Report on Public Health for 1936.

CHAPTER I.

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

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

CHAPTER II.

VITAL STATISTICS (INCLUDING POPULATION AND EMIGRATION AND IMMIGRATION).

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

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

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

Name of (Name of Collectorate,		Census Population, 1921	Census Population 1931.	Estimated Population 1936 (mid- year).	Birth rate based on Population of 1931.	Birth-rate based on estimated Population 1956 (mid- year).	Death-rate for 1936 on census Population for 1931.	Death-rate for 1936 on estimated Population 1936 (mid- year).
	1		2	3	4	5	6	7	8
Karachi	•••		•••	5,79,432	•••	30.77	•••	18.10	***
Dadu	•••	•••	•••	3,34,282	•••	19.43	•••	11.16	• • •
Larkana	•••	•••	•••	4,52,141	•••	23.61	•••	11.93	•••
Upper Sind	d Frontier		•••	2,60,326	•••	14.80	•••	7.10	•••
Hyderabad	l	011	5,73,450	6,61,776	7,08,884	15.83	14.77	12:61	11.65
Nawabshal	h	•••	4,18,660	4,96,612	5,43, 5 20	15:36	14.02	10:40	9.50
Thar Park	ar	•:.	3,96,331	4,68,040	5,06,231	17'32	16.02	11.26	10.63
Sukkur	•••	•••	5,10,292	6,23,779	6,84,305	23.18	21.13	13.06	11.90
	Total	•••	32,79,377	38,76,388	41,94,793	20,2	18.96	12:49	11:54

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

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

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

EUROPEAN AND ANGLO-INDIAN VITAL STATISTICS.

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

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

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

Agenty and the second s				DEATHS.			
			Age periods.	census	Europeans	Anglo-Indians.	
Under 1	yeaı	•	•••		I	2	
1-5 y	ears	• • •	• • •	• • •	I	* • •	
5—10))	• • •	• • •	• • •	•••	Ī	
10-15))	• • •	• • •	• • •	• • •	•••	
15-20	,	• • •	• • •	• • •	• • •	. I	
20-30	,,	• • 0	• • •	• • ¢	•••	3	
30-40	9)	• • •	• • •	• • •	2	• • •	
	";	• • •	• • •	po o	1	3	
50-60		• • •	ව ≎ •	* * *	I	• • •	
60 and	over	• • •	•••	• • •	4	5	
				Total	10	15	

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

	Year.	Cho- lera.	Small- pox.	Fevers.	Dysen- tery and Diarr- hoea.	Respira- tory dis- eases.	Înjuries.	All other causes.	Total.
Europeans I Anglo-Indians	936	• • •	• • •	2 I	I	2	• • •	8 11	10

VITALS STATISTICS OF INDIANS.

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

1901—1910 66,578, 1911—1920 ... 71,306 and 1921—1930 ... 73,693. The number of births recorded in the previous years and the corresponding birth rates were as follows:—

Years.		Number of Birth	Birth-rates.	
1901-10 (Mean)	. • •	66,578	4 4 5	20.77
1911-20 (,,)	• • •	71,306	• • •	20.33
1921-30 (,,)	•••	73,693	10 C G	22.57
1931	• • •	88,261		22.77
1932	• • •	77,976	• • •	20'11
1933		77,789	• • •	20.07
1934	ø • A	75,729	• • •	19.23
1935	% ● ●	78,843	• • •	20.33
1936	9 0 0	79,536	• • •	20.52

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

Province.		1935.		1936.
Madras	0 4 6	36.99	# © ÷	37.76
Bengal	9 * *	32.74	• • •	33.53
Assam	• • •	30.26		
Bihar } Orissa }	• • •	35 ⁻ 3 4		{ 35.34 36.63
United Provinces	•••	36.04		38.99
Punjab		45.57		46.85
Central Provinces	5 4 C	44.93	• • •	42.20
Bombay	0 0 0	37*00		41.40
North-West Frontier	• • •	8 · g	0 0 0	32.64
Sind	• • •	20.33	-• • •	20.22

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

- 6. Birth-rates in Collectorates.—Of the 8 districts in the Province the highest birth-rate was recorded in Karachi district (30'77) and the lowest (14'80) in Upper Sind Frontier district. One district returned a birth-rate of more than 30 per mille of population, and two between 20 and 30 and the remaining 5 under 20. Details of births and birth-rates in Collectorates are shown in Annual Form No. I.
- 7. Birth-rates in rural areas.— The birth-rate for the rural areas of the Province during the year was 16:38 as compared with 16:81 in the previous year. There was a decrease of 1,372 births. Of the 61 talukas in the province, 18 returned rates over 20 per mille 18 returned between 15 and 20, 15 between 10 and 15 and the remaining 10 under 10 per mille of population. The rates varied from 29:47 per mille in Sehwan taluka (Dadu district) and 28:33 in Shahdadkot taluka (Larkana district) to as low a figure as 6:56 per mille in Khipro taluka (Thar Parkar district).
- 8. Birth-rate in urban areas.—In urban areas there was an increase of 2,065 births. The birth-rate for the urban areas of the Province was 40.99 as against 37.80 in the previous year. Out of the 20 urban areas in the province, one returned a birth-rate exceeding 50 per mille, one exceeding 40 per mille, 3 between 30 and 40 per mille, 3 between 20 and 30 per mille, and the remaining 12 under 20 per mille of population.
- 9. Births in Karachi City.—The births recorded in Karachi City were 13,937, i.e., 1,334 more than in the previous year equivalent to a birth-rate of 56.24 per mille as compared with 50.86 for the previous year.
- 10. Births in Cantonments.—Of the two Cantonments, Karachi recorded a rate of 64.90 births per mille while Hyderabad recorded a rate of 12.35 per mille.
- were males and 35,361 females, the ratio of male to female births being 124'92 to 100. The previous year's ratio was 126'44 to 100. The excess in male births recorded in Sind is usual in Sind.
- 12. Still-births.—During the year 969 still-births were registered, i.e., 1.22 for every 100 live-births. The percentage of still-births to live-births recorded varied from 0.21 in Nawabshah district to 1.98 in Karachi district. Distribution of still-births by classes, sex and Collectorates is shown in Annual Form No. I-A.
- 13. Verification of vital statistics.—The officials of the Public Health Department detected 246 births which had not been registered. Omissions were pointed out to the Collectors concerned and necessary action was taken against the village officials responsible.

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

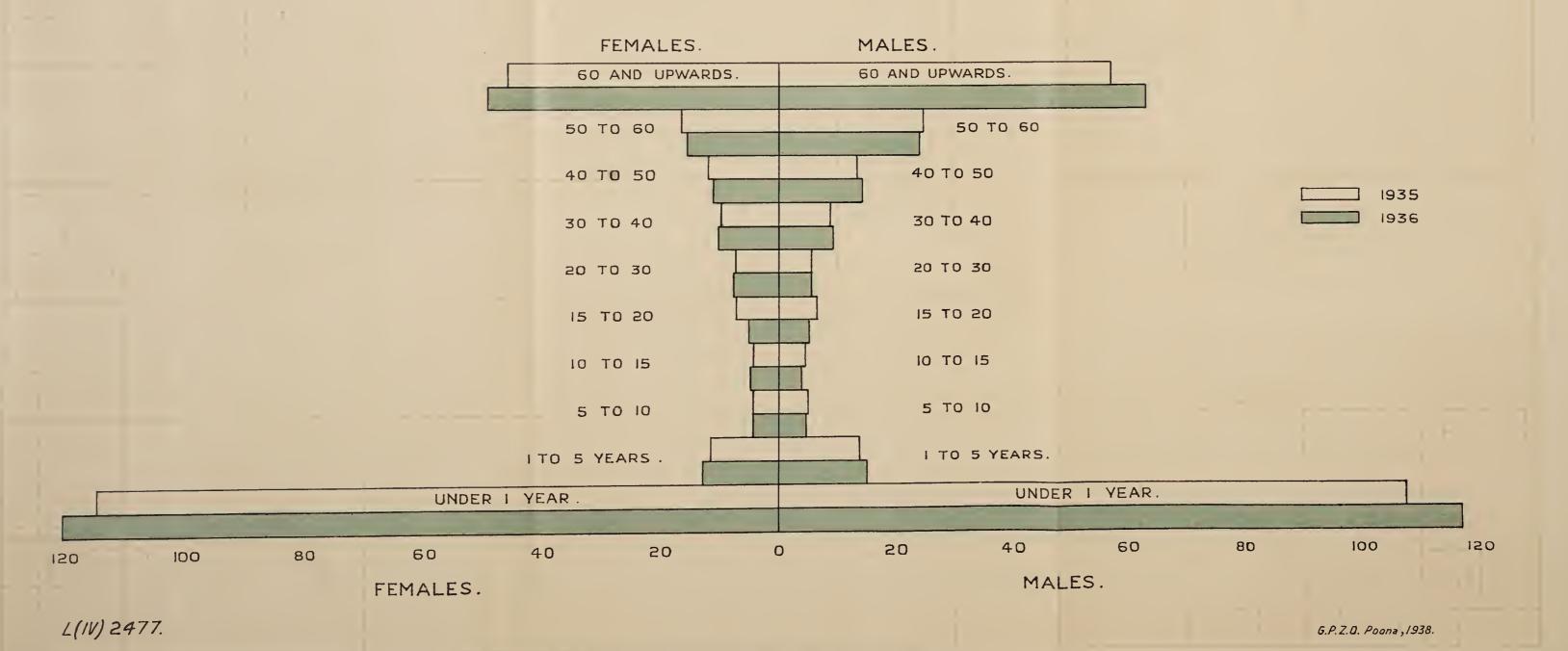
Yea	ar.		Deaths.		Death-rate.
1901-10	(Mean)	• • •	68,335	•••	21.62
1911-20	(,,)	• • •	94,320	• • •	26.89
1921-30	(,,)	• • a	56,174	• • •	17.23
1931	• • •	• • •	46,714	• • •	12.02
1932	•••	• • •	59,067	• • ¢	15.53
1933	•••	• • •	54,239	• • •	13.99
1934	⊕ • •	• • •	48,489	• • •	12.21
1935	•••	• • •	47,249	• • •	12.19
1936	•••	***	48,425	• • •	12'49

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

Province.		1935.	•	1936.
Madras	• • •	24.89	••0	23.30
Bengal	• • •	22.67	• • •	24.20
Assam	• • •	21.41	-•••	•••
Bihar Orissa	}	25*13	• • •	{ 2.1.68 27.84
Punjab	• • •	24.89	• • •	23.97
Central Provinces	•••	34.35	• • (34.89
United Provinces	• • •	24.78	•••	22.61
Bombay	• • •	25.56	•••	27.73
North-West Frontie	er	• • •	. • •	17.92
Sind	• • •	12.19	• • •	12.49

CHART II

DEATH-RATE AT EACH AGE PERIOD 1936.





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

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

- 17. Death-rates in rural areas.—The death-rate in the rural areas of Sind was 10'40 as against 10'53 in 1935, showing a decrease. Of the 61 talukas and mahals, no taluka recorded a death-rate above 20 per mille of population. Forty-one returned death-rates between 10 and 20 per mille and the remaining 20 returned death-rate below 10 per mille. The highest rate (16'67) was reported in Sehwan taluka (Dadu district) and the lowest (5'41) in Kandhkot taluka in the Upper Sind Frontier district.
- 18. Death-rates in urban areas.—The death-rate in the urban areas of Sind was 22.78 per mille as against 20.36 in the previous year. Of the 20 urban registration circles four returned death-rate between 20 and 30 per mille, 9 returned death-rate between 10 and 20, and the remaining 7 returned death-rate under 10 per mille.
- 19. Death rate in Cantonments.—Of the two Cantonments, Karachi recorded a death-rate of 20'03 per mille and Hyderabad 6'84.
- 20. Excess of Births over Deaths.—During the year under report, 79,536 births were recorded. Out of these 52,862 were in rural areas while 26,674 were in urban areas. The total number of deaths recorded in the Province was 48,425 of which 33,597 were reported from rural areas and 14,828 from urban areas. The excess of births over deaths was 31,111 against 31,594 in 1935.

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

The state of the s			, , , , , , , , , , , , , , , , , , , ,		· · · · · · · · · · · · · · · · · · ·		
Causes of death.		193	35-	19.	36.	Mean for	r 5 years.
		Number of deaths.	Ratio.	Number of deaths	Ratio.	Number of deaths.	Ratio.
Cholera	• • • :	44	.01	- 8	*000 2	26	•000б
Small-pox	•••	571	•15	308	.07	8 44	.22
Plague		•••	•••	4	.0001	. •••	•••
Fevers	• • •	28,713	7.41	27,679	7.14	33,482	8.63
Dysentery and Diarrho	oea.	912	.23	1,303	*34	855	. 2 3
Respiratory diseases	• • •	8,654	2*23	10,225	2.64	7,7 06	1.98
Injuries		884	•23	873	•23	916	•24
Other causes	•••	7,471	1.93	8,025	2.07	7,322	1.89
Total	•••	47,249	12.19	48,425	12.49	51,151	13.19

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

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

	19	3 6.	19	35.
Age groups.	Total deaths.	Percentage.	Total deaths.	Percentage.
Under I week I week to I month I to 6 months 6 to 12 months	2.088 1,830 3,323 2,408	21.64 18.96 34.44 24.96	2,220 1.758 2,993 1,969	23'01 18'22 31'02 20.41

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

Province.	Year 1935.		Year 1936.
Madras	178.47		164.04
Bengal	158.21	8 8 9	170.30
United Provinces	157.20		148.53
Punjab	155.10	• • •	158.44
Central Provinces	223*54	• • •	234.98
Bombay	163.87	• • •	166.08
Bihar Orissa	} 129.50	• • •	117.98 205.43
North-West Frontier	4 • 6	e • •	121.72
Sind	131.56		121'31

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

Year.	Death	s under 12	months.	Births registered.			Infa	Infant deaths per 1,000		
	Male.	Female,	Total.	Male.	Female.	Total,	Male.	Female	Total.	of deaths.
1936	5,227	4,422	9,649	44,175	35,361	79,536	118.32	125.05	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	4,7 7 6	3,984	8,760	40,212	33,717	75,729	118.77	118*10	117:67	180.66
1933	6,019	5,060	11,079	43,639	34,150	77,789	137.01	148·1 1	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	3 5, 394	80,138	198.66	223.12	209*46	195•49
1928	6,411	5,144	11,555	44,968	35,354	80,322	142:57	145.49	143*85	· 212 ·76
1927	6,308	5, 361	1,1669	41,616	33,577	75,193	151.58	159.63	155•19	224.71
1926	7,773	6,897	14,670	44,305	34,944	79,249	175.44	197:37	185•11	233 ·16

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

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

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

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

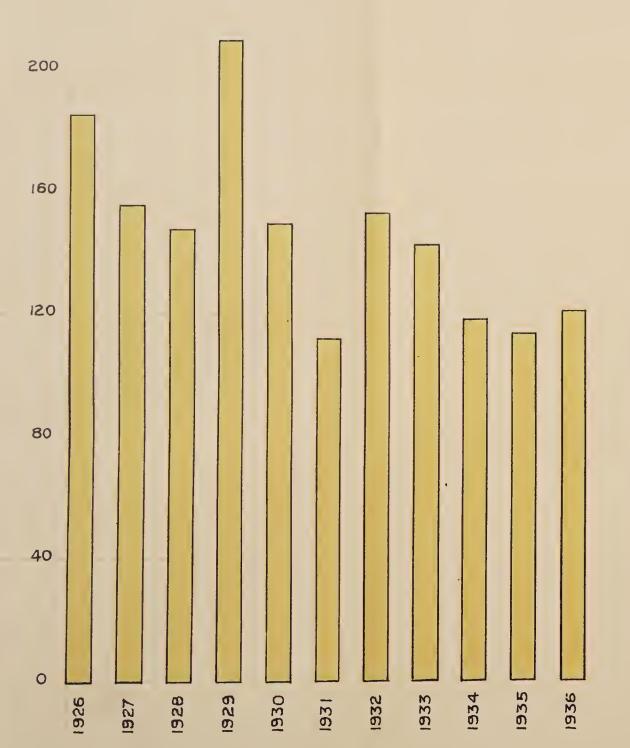
Hyderabad town.—In Hyderabad town the Lady Health Visitor attended the Child Welfare Centre at Trans-Fuleli quarter twice a week and supervised the work of 3 midwives. During the year under report she paid 2,655 visits as compared with 2,415 visits during the previous year. Of the total number of visits,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

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

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

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

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



CHARTI

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



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

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

SUMMARY OF VITAL STATISTICS OF THE CHIEF TOWNS.

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

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

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

Shikarpur town.—The population of Shikarpur town according to the census of 1931 is 62,505. 2,243 births were registered against 2,144 in the previous year. The birth-rate per mille of population during the year under report was 35 88 as compared with 34 30 in 1935. There were 1,662 deaths as against 1,473 in 1935, the death rate being 26 58 against 23 57 in 1935. Smallpox claimed 2 deaths only. The chief causes of deaths is shown in the returns were 'All other causes', fevers and respiratory diseases. The infant mortality rate per 1,000 births was 235 85 as against 221 09 in 1935.

CHAPTER III.

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

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

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

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

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

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

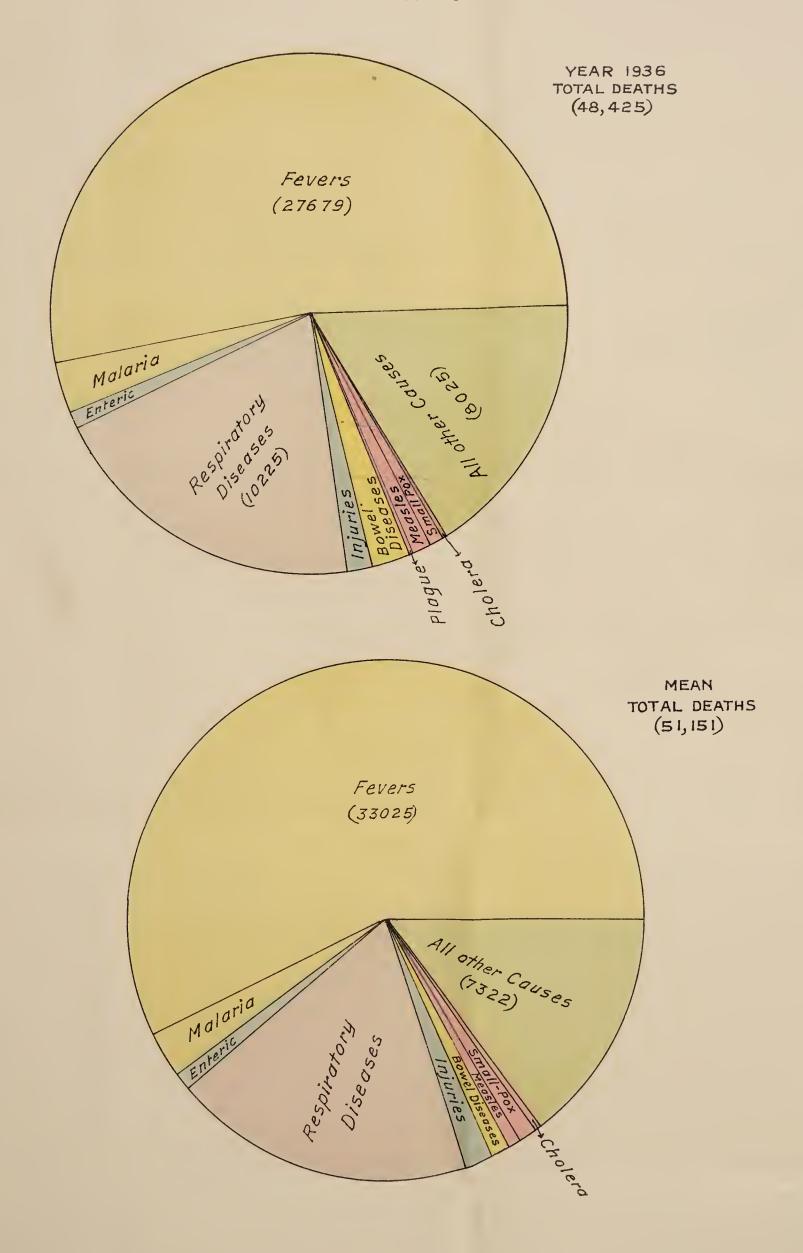
During 1936 the number of deaths from each of the following causes, namely fevers, enteric fever, cerebro spinal-fever and injuries was lower than in 1935, whilst the number of deaths from measles, respiratory diseases, phthisis, dysentery and diarrhoea, child-birth, and other causes was higher. There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

2. Fevers: (General Prevalence).—The number of deaths registered as due to fevers during 1936 was 27,679, the death-rate being 7.14 per mille of population, as compared with 33,482 and with 8.63 per mille, the mean for the previous 5 years. Fevers were responsible for 57.16 per cent. of the total deaths.

CHART IX

COMPARATIVE DIAGRAMS OF DEATHS BY CAUSES FOR

MEAN 1931-35 AND FOR 1936.





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

Year.			No. of deaths	•	Rate per mille.
1926	•••	• • •	47,169		14.64
1927	• • •	• • •	38,321	• @ @	11.75
1928	• • •	* • •	39,417	v • •	12'12
1929	> * C	थ च ल	61,581	• • •	18.89
1930	• • •		42,426	• • •	13.01
1931	• • •	0 0 0	31,080		8.02
1932	***	8 b 4	39,728	⊕ ⊕ ●	10.22
1933	• • •	n • •	35,742	• • •	9°22
1934	• • •		32,147	• • •	· 8 ·2 9
1935	• • •	e 6 8	28,713	• • •	7.41
1936	• • •	* ●	27,679		7.14

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

4. Death-rates from fevers in Collectorates.—

				•
Collectorate.	Deat	h-rate in 19	Death-rate in 1935.	
Larkana	• • •	10.03	• • (8.82
Dadu	n • •	8.54	• • •	7.81
Sukkur	• • •	8.54		9.69
Nawabshah	₽ ● 6	8.50	• • •	8.03
Thar and Parkar	• • •	7.05	• • •	8.33
Jacobabad	0 0 4	6.44		6.31
Hyderabad		5.64	• • •	6.68
Karachi	€ 6 0	3.53	• • •	3.61

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

The highest urban death rates were recorded in Ratodero (Larkana district)—16'33, Umarkot (Thar Parkar district)—12'50, Garhi Yasin (Sukkur district)—11'80; and the lowest death-rates in Nawabshah (Nawabshah district)—1'53 and Karachi (Karachi district) 1'80.

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

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

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

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

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

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

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

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

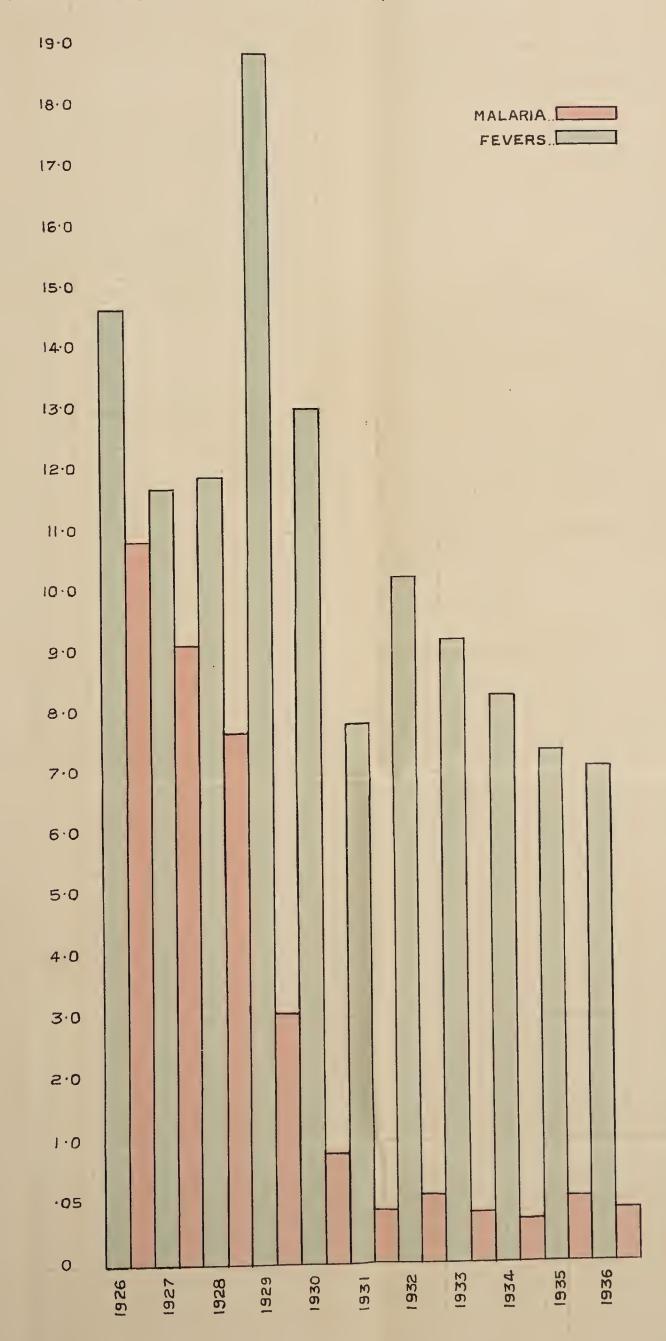
- 8. Measles.—481 deaths were registered against 223 in the previous year. The death-rate was 0.12 against 0.06 recorded during 1935.
- 9. Deaths from Measles in urban and rural areas.—The deaths recorded in urban and rural areas were 369 and 112, respectively or rates of 57 and '03 per mille respectively.

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

CHART V

CHART SHOWING MORTALITY RATE FROM

FEVERS AND MALARIA BY YEARS FROM 1926 TO 1936





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

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

Name of Circle.			Cases.	Deaths.	Date of fist case.	Date of last case.	
Karachi	•••	т. с.	• • •	5	3	5th Jan. 1936	25th Nov. 1936
Jati	•••	R. C.	•••	. I	I	19th Aug. 1936	19th Aug. 1936
Hyderabad	•••	T. C.	- • •	2	2	26th Jan. 1936	7th Nov. 1936
Hyderabad	• • •	C.C.	• • •	I	•••	2nd April 1936	2nd April 1936
Matiari	• • •	T.C.	•••	1	ı	16th April 1936	16th April 1936
Nawabshah	.***	т. с.	• • •	2	2	16th March 1936	3rd April 1936
Shikarpur	• • •	T. C.	• • •	3	I	18th Feb. 1936	11th Dec. 1 936
Shikarpur	•••	R.C.	• • •	I	• • •	22nd April 1936	22nd A pril 1936
Jac o babad	•••	T. C.	• • •	I	• > •	3rd Aug. 1936	3rd Aug. 1936
Mirpurkhas	•••	T. C.		ı.	1	16th Nov. 1936	16th Nov. 1936
	Total	Sind	•••	18	11		
						The state of the s	

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

14. Respiratory Diseases. (General prevalence).—During the year under review, 10,225 deaths due to respiratory diseases were reported as against 8,654 deaths in 1935. The death rate was 2.64 as compared with 2.23 in the preceding year and 1.98 the quinquennial mean.

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

Year.			No of Deaths.	Ra	tio per mille.
1926	9 & E	• • •	6,633	• • •	2'04
1927		• • •	5,706	• • •	1.75
1928	• • •	• • •	6,658	• • •	2.04
1929	• • •	• • •	7,355		2.56
1930	• • •	• • •	7,249	• • #	2.22
1931	• • •	• • •	6,292	\$ 0 c	1.63
1932	• • •	• • •	8,149		2.10
1933	•• 7	• • •	8,036	2 6 6	2.07
1934	•••	• • •	7,399	• • •	1.91
1935		• • •	8,654	• • •	2.53
1936	• • •	• • €	10,225	• • •	2.64

16. Death-rates from respiratory diseases in Collectorates.

Collectorate.	1936.	Ratio per mille	1935.	Ratio per mille
Hyderabad Nawabshah Thar and Parkar Larkana Dadu Sukkur Upper Sind Frontier	4,418 2,597 557 1,258 257 275 833 30	7 63 3'9' 1'11 2'69 57 83 1'30	3,345 2,182 485 1,393 224 256 704 65	5.78 3.31 1.05 2.99 .50 .77 1.13 .25

^{17.} Death-rates from respiratory diseases in urban and rural areas.—Death rates for urban and rural circles were 8.46 and 1.46, respectively.

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

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

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

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

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

20. Death from Phthisis by Collectorates.—

Collec	N	o. of death	s.		
Karachi	•••	•••	• • •	685	
Hyderabad	• • •	• • •	• • •	360	p
Nawabshah	•••	•••	• • •	73	
Thar Parkar		* * 1	•••	83	
Larkana		•••	ø G- 18	60	
Dadu	• • •	•••		72	
Sukkur	• • •	3 • c		240	
Upper Sind F	rontier`	• • •	● €	11	
		Total]	,584	

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

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

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

Name of town.		Death-rate for 1936.			Quinquennial mean.
Karachi	0 • •	• • •	2.41	• • •	1.93
Hyderabad		• • 5	2.38	• • •	1.45
Sukkur	• • •	•••	0.75	•••	0.49
Shikarpur		w *	1.48	• • •	1.13

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

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

The district of Karachi and Thar Parkar recorded the highest death-rates for the rural areas, viz., 2.98 and 2.00, respectively.

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

Collectorate.		1936.		1926 to 1935 (Mean.)
Karachi	• • •	1.59	A	0.91
Hyderabad	• • •	0.34		0.10
Nawabshah	• • •	0.02	A • •	0.02
Thar Parkar	• • •	0.04	• • •	0.02
Larkana	• • •	0.06	900	0.03

Collectorate.		1936.		1926 to 1 9 35 (Mea n.)
Dadu	•••	0.09	• • •	0.04
Sukkur		0.33	• • •	0.18
Upper Sind Frontier	₩ 6 €	0.02	• • •	0.04

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

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

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

The highest death rates in urban areas were recorded in Karachi (2.75), Sukkur (1.93) and Hyderabad (1.51).

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

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

Year.					Number of deaths.
1926					789
1920		• • •	•••	J • 1	
1927		• • •	••• \	•••	811
1928		• • •	• • •	• • •	916
1929		• •	• • •	• • •	924
1930		• • •	***	• • •	926
1931		. • •	• • •		838
1932		• • •	•••	• • •	938
1933	â	. • •	• • •	n 0 0	1,004
1934		• « «	•••	• • •	916
1935		• • •	• • •		884
1936		• • •	•••	• • •	873

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

			1936.		1935.		
Causes.	Males.	Females.	Total.	Males.	Females.	Total.	
,				0		4.7	105
Drowning	• • •	91	57	148	93	42	135
Poisoning	0 m v	10	3	13	ΙΙ	3	14
Hanging	• • •	3	6	9	6	6	12
Wounding	•••	222	94	316.	185	70	255
Wild beasts	• • •	23	6	29	7	2	9
Snake bites		159	29	188	190	31	221
Rabies	0 4 6	7	I	8	8	6	14
Railway accidents	• • •	2	· I	3	6	0 0 0	6
Other causes	•••	100	59	159	131	87	218
· Total	•••	617	256	873	637	247	884

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

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

30. Deaths from Rabies.—8 deaths due to rabies were reported this year as against 14 reported during the previous year.

31. Details of suicidal deaths.—26 deaths from suicide were registered in 1936 against 29 in 1935. The deaths occurred under the following heads:—

O			Male.		Female	•	Total
Drowning	6 · •	• • •	4	a • •	I	• • •	5
Poisoning		• • •	2		• • •	• • 0	2
Hanging	• • •	• • •	2	•••	4	• • •	6
Wounding	• • •		10	• • 9	3	• • •	13
		amount.				_	
	Total	C 3 a	18		8	•••	26
						-	

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

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

Year.	,		No. of deaths.
1926	•••	• • •	6,311
1927	• • •	• • • •	5,903
1928	•••	0 O 0	6,204
1929	•••	•••	7,815
1930	• • • •	•••	6,795
1931	• • •	• • •	7,123
1932	••••	• • •	7,658
1933	•••	• • •	7,473
1934	• • •	• • •	6,886
1935	• • •	• • •	··· 7,47 ^I
1936	* • •	• • •	8,025

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

Years.			N	o. of deaths.
1931	• • •	• • •	2 * •	1,297
1932	• • •		• • •	1,113
1933	0 % 4	2 0 2	• • •	I,I22
1934	• • •	• • •	• • •	1,027
1935	t • •	•••	• • •	979
1936	• • •	• • •	• • •	1,023

35. Deaths from child-birth by Collectorates .-

Collectorates			Death fr	om Ch	
Conectorates	•		1936.		1935.
Karachi	* • •		125	• • •	93
Hyderabad	• • •	• • •	162	• • •	148
Nawabshah	•••	• • •	146		I 2 6
Thar Parkar	. • •	• • •	I I 2		108
Larkana	př	• • •	122	• • •	132
Dadu	• • •	•••	102	• • •	84
Sukkur	• • •	• • •	229	• • •	248
Upper Sind F	rontier	•••	25	• • •	40
		_			-
	Total		1,023		979
				-	

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

То	own.		Total No. of Births in 1936.	Total No. of deaths from child-birth in 1936.	Total No. of births in 1935.	Total No. of deaths from child-birth in 1935.
Karachi	• • •	a • -	13,937	79	12,603	47
Hyderabad	•••	•••	4,243	17	3,784	22
Sukkur	• Ø ¥	•••	2,539	33	2,292	30
Shikarpur	• • •	5 w 0	2,243	56	2,144	63
Larkana	> % B	•••	1,032	31	894	35

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

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

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



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



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

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

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

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

CHAPTER IV.

EPIDEMIOLOGY.

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

Year.				Num	ber of deaths.
1915	• • •	• • •	•••	•••	27
1916	• • •	• • •	• • •	• • •	1,231
1917	3 4 4	• • •	• • •	•••	449
1918	• • •	• • •	• • •	• • •	2
1919	5 • •	• • •	• • •	• • • b	316
1920	• • •	9 0 9	• • •	• • •	• • •
1921	• • •	A 9 0	* * 6	• • •	429
1922	e • •	* * · · · · · · · · · · · · · · · · · ·	• • •		25
1923	• • •	• • &	• • •	نه در در	9
1924 .	• • •	• • •	• • •	• • • •	409
1925	• • •	• • •	× • •	• • •	I
1926	•••	• • •	• • •	• • •	133
1927	• • •	• • •	● ∪ ♥	• • •	I
1928	• • •	•••	• • •	• • •	214

Year.				Number of deaths.				
1929	•••	• • P	• • •	6	5,411			
1930	• • •	• • •	• • •	• • •	• • •			
1931	• • •	~ 4 u	• • •	• • •	68			
1932	• • •	• • •	•••	• • •	15			
1933	***	• • •	•••	. • •	3			
1934	• • •	u • •	• • •	• • •	Ι			
1935	•••	• • •	• • •		44			
1936	• • •		* • • #	• • •	8			

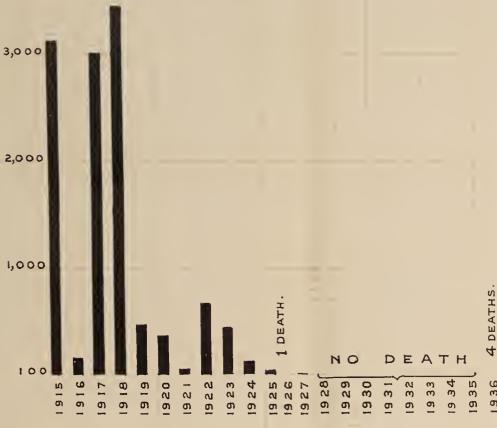
- 3. Deaths from Cholera by Collectorates.—12 cases with 8 deaths occurred in Hyderabad district showing a death-rate equivalent to 'o' per mille. The rest of the collectorates were entirely free from cholera.
- 4. Deaths from Cholera in urban and rural areas.—8 deaths were reported in one urban area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

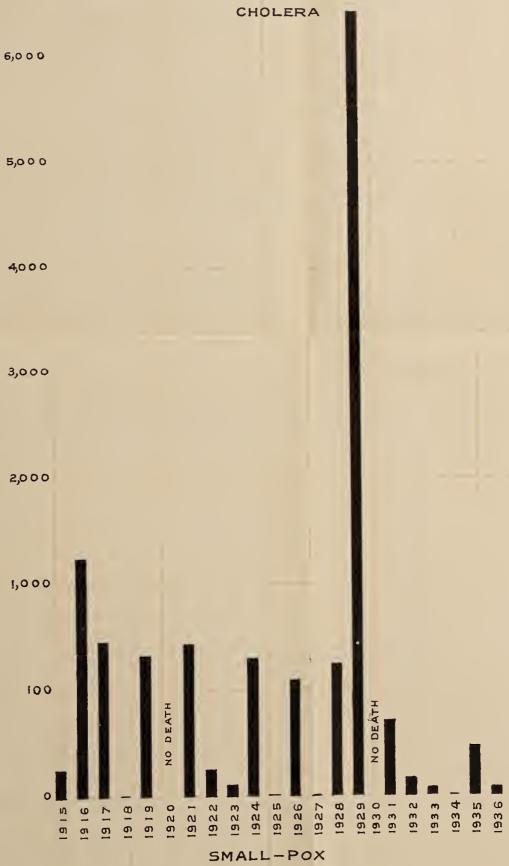
CHART VII

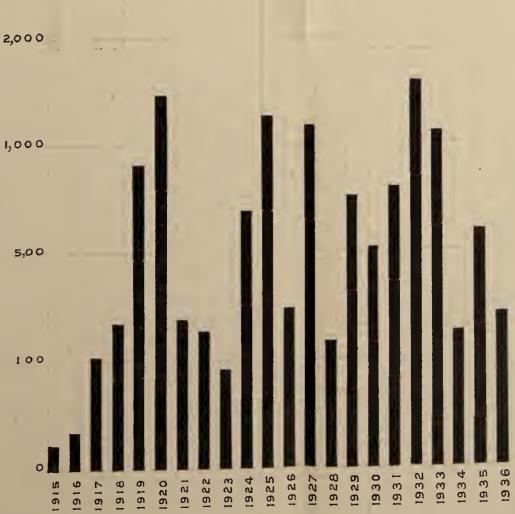
ANNUAL INCIDENCE OF DEATHS FROM EPIDEMIC DISEASES.

1915 TO 1936

PLAGUE











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

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

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

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

7. Expenditure on Cholera.—

4	Rs.	a.	p.
Cost of cholera vaccine	234	8	0
	283	I 2	0
Cost of deputation of Special Subordinate Medical Officer for cholera duty to Tando			
Allahyar	51	15	0
Total	570	3	0

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

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

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

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

Year.		Death-rate.			
1926	• • •	• • •	1,143	• • •	0.32
1927	• • •	• • •	336	•••	0.10
1928	4 6 5	• •	179	• • •	0.06
1929	• • •	• • •	747	• • •	0.53
1930	• • •	• • (509		0.19
1931	• • • •	• • •	795	6 6 4	0.51
1932	• • •	•••	1,553	• • •	0.40
1933	• • •	ଦ ଶ ଶ	1,093	6 G 6	0.58
1934	• • •	•••	209	• • •	0.02
1935	• • •	• • •	57 ^I	• • •	0.12
1936	•••		308	• • •	0.07

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

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

Collectorate	Cases	Deaths.	Death-rates.		
Karachi	• • •		308	82	0'14
Hyderabad	• • (• • •	151	28	0.04
Nawabshah		• • •	154	30	0.06
Thar Parkar		• • •	254	41	0.00
Larkana	8 6 6	• • •	188	31	0.02
Dadu	• • •		254	43	0.13
Sukkur	• • •	• • •	81	2 I	0.03
Upper Sind Frontier	•••	• • •	192	32	0.13
4	Total	6 9 1	1,582	308	0.07

Out of 26 towns and 9,095 villages in Sind, 7 towns and 70 villages were affected with small-pox. Amongst towns high deathrates were recorded in the towns of Jacobabad (1'40), Karachi ('22), Tatta (0'21) and Kotri (0'20).

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

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

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

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

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

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

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

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

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

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

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

CHAPTER V.

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

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

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

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

CHAPTER VI.

URBAN SANITATION (INCLUDING NOTIFIED AREAS).

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

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

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

		Income.			Taxation.			
		Rs.	a.	p.		Rs.	a.	p.
Karachi	•••	17	5	8	••••	9	13	9
Hyderabad	• • • •	12	10	IO	• • •	6	IO	10
Sukkur	• • •	16	11	3	• • •	3	I 2	3
Shikarpur		ΙΙ	9	ΙΙ	• • •	4	4	ΙΙ

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

- 4. Expenditure on Public Health in Municipalites.—The expenditure on public health measures came to Rs. 2-9-6 approximately per head of population in Karachi City and averaged Rs. 2-5-5 for the remaining municipalities.
- 5. Municipal water-supplies. Results of water analysis.—
 The water-supply in Karachi continued to be maintained at a high standard of purity. Samples of untreated and of chlorinated water were sent daily for examination to the Chemico-Bacteriological Laboratory.

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

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

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

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

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

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

CHAPTER VII.

RURAL SANITATION.

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

Draw wells were newly constructed in the following districts:-

• • •		16
• • •	• • •	27
• • •	• • •	2
6 ७ ♦	6 4 5	4
TD.	1	
	• • • • • •	•••

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

Karachi.

Hyderabad.

Nawabshah

Dadu.

Upper Sind Frontier.

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

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

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

CHAPTER VIII.

MALARIA.

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

Collectorate	2.		Nu	mber of deaths.
Karachi	•••	•••	• • •	265
Hyderabad	•••	- * * *	• • 6	197
Nawabshah	• 6 •	• • •	•••	59
Thar Parkar	****	• • ¢	0 0 0	133

Collecte	Number of deaths.			
Larkana	• • r	•••	••••	141
Dadu	•••	•••	• • •	172
Sukkur	•••	• • •	• • •	621
Upper Sind	Frontier	• • •	•••	39
		Total	•••	1,627.

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

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

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

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

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

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

- 8. Distribution of quinine.—During the financial year 1936-37. Government sanctioned Rs. 23,000 for the cheap sale and free distribution of quinine.

 Rs. a. p.
 - (1) Quinine sulphate tablets to Post Offices 810 8 o for cheap sale.
 - (2) Quinine hydrochloride treatment sold to 4,713 12 o Government departments.
 - (3) Quinine sulphate tablets sold to Local 1,125 o o
 Bodies at concession rate for free
 distribution.
 - (4) Quinine sulphate tablets distributed free. 15,872 2 o

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

9. Special inquiries and investigations.—Nil.

CHAPTER IX.

MATERNITY AND CHILD WELFARE.

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

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

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

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

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

CHAPTER X.

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

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

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

CHAPTER XI.

HEALTH PROPAGANDA.

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

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

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

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

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

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

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

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

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

CHAPTER XII.

PUBLIC HEALTH ADMINISTRATION.

ments, increases, decreases, etc.—The Director of Health and Prison Services is the administrative head of the Public Health Department. He is also the head of the Medical and Jail Departments in Sind. There is one Assistant Director of Public Health and one Officer-in-charge of the Chemico Bacteriological

Laboratory, Karachi. Five Inspectors of Sanitation and Vaccination and 63 Vaccinators constitute the subordinate staff. The Laboratory has a Bacteriological and a Chemical Assistant and clerical and menial staff.

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

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

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

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

CHAPTER XIII.

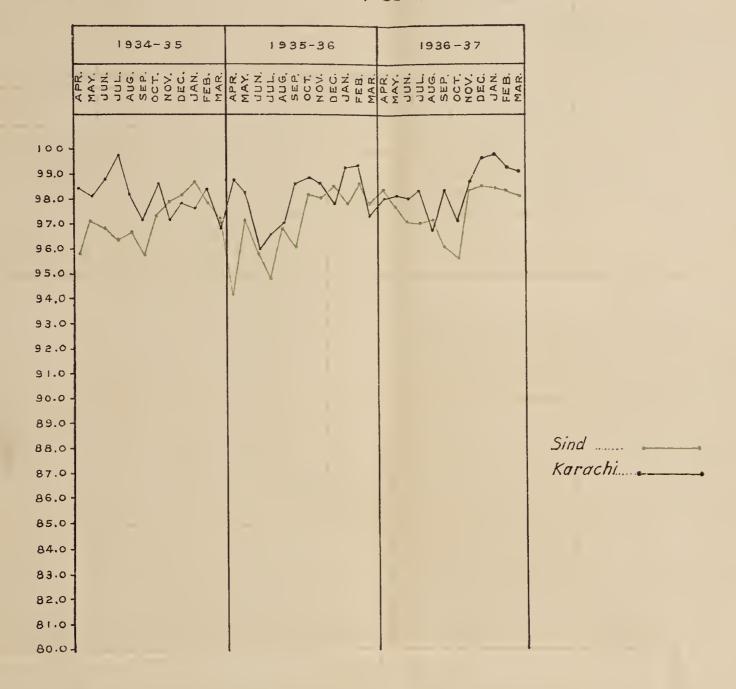
VACCINATION.

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

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

CHART VIII

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





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

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

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

The percentage of successful re-vaccinations was 8:39. The results could not be ascertained in 69:52 per cent. of cases.

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

Vaccination in Police Lines and Outposts was carried out regularly.

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

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

Town.			ate of application of the Act.
Karachi	> 4 4	• • •	October 1879.
Hyderabad	• • •	• • •	February 1914.
Sukkur	• • •	• • 3	June 1904.
Shikarpur	o • •	6 6 0	July 1933.
Rohri	• • •	• • •	June 1904.
Larkana	• • •	> • •	April 1899.
Hala		• t o	September 1936.
Nasarpur	• • •	• • •	September 1936.

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

11. Diagram.-Nil.

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

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

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

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

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

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

CHAPTER XIV.

OTHER PUBLIC HEALTH SERVICES.

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

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

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

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

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

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

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

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

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

Town. Date of application of the Act.

Karachi ... December 1930.

Shikarpur ... January 1935.

Hyderabad ... August 1936.

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

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

There are no mines in Sind.

GENERAL REMARKS.

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

			Vessels.		Crew and passengers.			
		Steamers.	Country crafts. Total.		Steamers.	Country cra f ts	Total.	
Out-going		321	480	809	50,882	5,960	56,842	
In-coming	•••	74	2	76	15,030	2	15,032	
T	otal	395	482	877	65,912	5,962	71,874	

- detected amongst the crew or passengers at the time of their Medical Inspection nor was any case of these diseases reported from any ship or country craft in the harbour during the year under reference.
- 12. Small-pox.—One case of smallpox occurred amongst the deck passengers on S. S. "Bankura" which arrived here on the 4th January 1936 from Bombay. The patient was sent to the Municipal Epidemic Diseases Hospital and all the necessary measures regarding the disinfection of crew and parts of the ship occupied by the passenger, were carried out.

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

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

	Name of vessel.		Date of arrival.	From	Cases amongst crew.	Cases amongst passengers
		,				
I.	S. S. "Jalaputra"	• • ,	29th Feb. 1936	Bombay	I	• • •
2.	S. S. "Vita"	• • •	26th March 1936 .	Bombay	I	*** ,
3.	S. S. "Barjora"	••	25th April 1936		ı.	• •
4.	S. S. "Jehangir"	• • •	25th April 1936	Busrah Bombay	A • •	I
5.	S. S. "Vasna"	• • •	25th April 1936	Bombay	I	I
6.	S. S. "Falkenfels"	• • •	5th May 1936	Bombay	1	
7.	S. S. "Vita"	• • •	11th May 1936	Bombay	1	• • •
	-			Total	6	2

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

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

14. Acute Pneumonia—

- P.S. "Rizwani" ... One death from Acute Pneumonia occurred on this ship during the voyage from Jeddah on 16th March 1936.
- P.S. "Akbar" ... One death from Acute Pneumonia occurred on this ship during the voyage from Jeddah on 25th March 1936.
- P.S. "Islami" ... One death from Acute Pneumonia occurred on this ship during the voyage from Jeddah on 12th April 1936.
- S.S. "Varela" ... One case of Acute Pneumonia died on this ship during the voyage from Busrah on 17th May 1936.
- P.S. "Alavi" ... One case of Acute Pneumonia died on this ship during the voyage from Jeddah on 3rd June 1936.

15: Measles-

- H.T. "Somersetshire". This vessel arrived from South-ampton with one case and two convalescent cases amongst troops and their families. The cases together with 26 contacts were taken charge of by the Embarkation Military Authorities.
- H.T. "Tuscania" ... Two cases of Measles amongst the troops and families occured on board the ship during the voyage from England. The cases were taken charge of by the Embarkation Military Authorities.

16. Scarlet Fever—

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

The cases were taken charge of by the Embarkation Military Authorities

17. Diphtheria—

H.T. "Dilwara" ... One case amongst the troops occurred on this ship during the voyage from Busrah. The case was taken charge of by the Embarkation Military

Authorities.

18. Mumps, Beri-Beri, Yellow Fever, Sleeping Sickness, Jigger and Cerebro Spinal-fever.—No cases of these diseases occurred or were reported to have occurred on any vessel entering or leaving the port during the year.

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

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

A.—OUTWARD PILGRIM TRAFFIC.

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

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

Serial No.	Name of ship.		Date of sailing	Number of additional pilgrims embarked at Karachi.	
1 2 3 4 5 6 7 8 9	P.S. "Islami" P.S. "Alavi" P.S. "Islami" P.S. "Akbar" P.S. "Alavi" P.S. "Rizwani" P.S. "Khosrou" P.S. "Islami" P.S. "Akbar"		4th Nov. 1935 25th Nov. 1935 14th Dec. 1935 12th Jan. 1936 19th Jan. 1936 3rd Feb. 1936 17th Feb. 1936 Total	358 460 1,402 sailed direct from Karachi. 1,033 Do. 658 701 522 891	

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

Number of pilgrims embarked at	1931-32.	1932-33.	1933-34.	1934-35.
Karachi Bombay	r 816	6,440	5,4 ⁸ 3 4,169	6,792 5,931

B.—INWARD PILGRIM SHIPS.

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

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

Serial No.	Name of pilgrim ship.	Date of arrival at Karachi.	No. of pilgrims embarked at Jeddah. Intermediate Ports.	No. of pilgrims disembarked. intermediate ports.	No. of deaths during the voyage.	No. of cases of infectious diseases.	No. of patients in the ship's hospital on arrival.	No. of pilgrims disembarked at Karachi.	No. of pilgrims bound for Bombay.
1	P.S. "Rizwani"	22nd March 1936.	1,641	•••	7	•••	1	1,634	•••
2	P.S. "Khosrou"	25th March 1936 .	1,400	•••	10	•••	· 4	1,390	•••
3	P.S. "Akbar"	2nd April 1936	1,395	••	10	•••	8 .	1,043	342
4	P.S "Alavi"	9th April 1936	1,043		1	•••	12	679	363
5	P.S. ''Islami''	22nd April 1936	1,612	145	5	• • •	6	832	630
6	P.S. "Alavi"	7th May 1936	1,043	•••	6	•••	2	756	281
7	P.S. "Jehangir"	18th May 1936	1,043		10	•••	8	781	252
8	P.S. "Alavi"	8th June 1936	277	14	2	•••	2	135	126
9	P.S "Jehangir"	9th August 1936	299	•••	2	*	2	158	159*
		Total	9,753	159	53	***	45	7,408	2,153

^{*} Includes 20 crew of S. S. "Rahmani" embarked at Karachi.

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

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

27. Medical advice by wireless.—The following ships applied for medical advice by wireless which was promptly complied with:—

S.S. "City of Pittsburg" on 15th January 1936.

S.S. "British Rosonese" ... on 5th April 1936.

S.S. "British Inventor" ... on 24th April 1936.

S.S. "British Justice" ... on 2nd September 1936.

S.S. "British Industry" ... on 17th October 1936 at 9-30 p.m.

S.S. "British Industry" ... on 18th October 1936, at 11-40 a.m.

S.S. "British Industry" ... on 18th October 1936, at 3-30 pm.

S.S. "British Industry" ... on 18th October 1936, at 10-45 p.m.

S.S. "British Industry" ... on 19th October 1936, at

S.S. "British Industry" ... on 20th October 1936, at 11-45 a.m.

28. Anti-rat Campaign.—The anti-rat campaign was carried out throughout the year within the wharf area. This resulted in the trapping of 1,606 live rats and destruction by poisoned baits of 880 rats. The average number of rats trapped per day per 100 traps set was 4.4, and of dead rats (poisoned by baits) found per day was 2.4.

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

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

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

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

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

CHAPTER XV.

GENERAL REMARKS.

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

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

Appointment.	Name.	Period.	Remarks.
Director of Public Health for the Government of Bombay.	LieutCol. A. Y. Dabholkar, M.C., D.P.H., I.M.S.	1st January 1936 to 31st March 1936.	Before the separation of Sind.
Director of Health and Prison Services, Sind.	LieutCol. N. Briggs, M.R.C.S., L.R.C.P. (Lond.), D.P.H., I.M.S.		ŧ
Assistant Director of Public Health, Sind.	Capt. E. Benjamin, M.B.,B.S., (Bom.), D.P.H., D.T.M., & H. (Lond.).		
Officer In-charge, Chemico-Bacteriological Laboratory, Karchi.	Mr. B. Bhujanga Rao, M.B.,B.S., B. Hy. (Bom.), D.T.M. (Cal.).	1st January 1936 to 26th March 1936.	
Do. do	Capt. E. Benjamin, D.P.H.	27th March 1936 to 11th November 1936.	Officiating in addi-
Do. do	Mr. H. C. Hiranandani	12th November 1936 to 31st December 1936.	tion to their own du- ties.

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

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

The personnel of the Board was as follows:-

Members.

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

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

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

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

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

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

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

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

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

Karachi, 16th August 1937.

APPENDIX

Table showing Health Services in Rural and Urban

							Rura	l areas.		
			M	ledical offic	ers of Heal	th.			Vacei	nators.
Dis	triets.		Holding	р. Р. н.	Licen L. P.	itiates H. S.	Epidemic staff.	Sanitary and Health Ins-		
			Whole time.	Part time.	Whole time.	Part time.		pectors.	Male.	Female.
	1	2		. 3	4	5	6	7	8	9
Karachi	•••	•••	•••	•••	***	***	•••	•••	9	•••
Dadu	•••		•••	•••	•••	•••		•••	8	•••
Hyderabad	•••	•••	***	•••	•••	•••	•••	•••	11	•••
Nawabshah		•••	***	•••	•••	•••	•••	•••	10	100
Thar Parkar	• • •		***	•••		•••	•••	•••	13	•••
Larkana		•••		•••	Holding M.B., B.S.,	***	•••	1	9	1
Sukkur			***	***	degree.	•••	•••	•••	9	***
Upper Sind F	rontier	•••	***	•••	•••				6	•••
	Total	•••	•••	•••	1	•••	•••	1	75	1

areas in the Province of Sind during 1936.

	-cs					Urban area	ıs.						
		Me	dical Offic	ers of Heal	th.		Vacci	nators.					
School medical Officers.	Other Health staff.	Holding	D. P. H.	Licentiates L. P. H. S.		Sanitary and Health Ins-	Male.	Female.	Ins- pectors of vacci-	School Medical Officers.	Other Health staff.		
·		Whole time.	Part time.	Whole time.	Part time.	pectors.	Maro	1 cmare.	nation.				
10	11	12	13	14	15	16	17	18	. 19	20	21		
•••	•••	4	•••	•••	***	8	4	2	•••	•••	•••		
•••	•••	• • •	* * *	•••	•••	•••	•••	•••	•••	•••	***		
•••	•••	1	•••	•••	•••	4	. 1	•••	(Superintendent of Vaccination).	•••	•••		
•••	***	•••	•••	***	•••	1		••		•••	•••		
6.00	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		
***	•••	•••	•••	•••	•••	1	1	•••	•••	•••	•••		
		9											
• • •	•••	2	•••	•••	•••	7	3	•••	•••	•••	***		
	•••	***	•••		•••	1	1	•••	•••	•••	•••		
•••	***	7	•••	901	004	22	10	2	1	•••	***		

APPENDIX I-A.

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

•		Ŋ	Materni Centre	ity and es mair	Child ntained	Welfar	:e.						
Districts.		Gov		Muni	l and icipal lies.	Other agencies.		Trained visitors.		Trained midwives.		Trained dais.	
		Rural,	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.
Karachi	•••	•••	•••	$oxed{2}$	***	2	•••	•••	4	6	. 4	2	6
Dadu		***	•••	4	1	1	€.§	• • •	•••	1	2	3	•••
Hyderabad		•••	•••	•••	1	•••	•••	•••	1	•••	•••	•••	4
Nawabshah	•••	•••	•••	•••	***	•••	} }	***	•••	•••	1	4	•••
Thar Parkar	•••	•••	•••	•••	•••	•••	•••	• • •	•••	•••	•••	•••	4
Larkana		•••	•••	10	1	•••	2	•••		3	•••	17	• • •
		•••	•••	2	2	2	3		3	4	14	1	27
Upper Sind Frontier	•••	•••	•••	1	•••	•••	2	000	***	1	2	•••	•••
Total		•••	•••	. 19	5	5	7	• • •	8	15	23	27	41

APPENDIX II.

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

Sind, during the year 1936-37.

		Total,	Rs.	8,683 Non-Voted.	18,814 Voted.	47,121 Voted.	8,683 Non-Voted.
re.	Other charges including ex-	penditure on Medical officer appointed on Malaria and Vaccination duties and	Rs.	28,095	:	:	28,095
Expenditure.		Grants-in aid.	Rs.	12,316	•	5,512	17,828
		Contin- gencies.	Rs.	3,430	6,245	0	9,675
		Allowan-	Rs.	817	1,065	10,972	817
	Salaries.	Pay of Establish- ment including menials.	Rs.	$\bigg\} 19,220 \bigg\{$	8,711	30,637	899'89
	Sala	Pay of officers.	Rs.	7,866	2,793		7,866
		Total.	Rs.	7,693	16,774	29,506	53,973
		Recovery of over payment.	Rs.		:	• Ç	* :
Income.		Miscel- laneous,	Rs.	125	830	:	955
In		Contribu-	Rs.	b	15,944	29,506	45,450
	Sale proceeds of	Sera Vaccines, etc., quinine and Malaria Posters.	Rs.	7,568	•	•	7,568
		Name of Institute.		Director and Assistant Director Public Health.	Chemico-Bacteriologi e a l Laboratory.	Local Vaccination Establishment.	Total
		°ON .		П	61	က	

APPENDIX

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

1	2			3		4				
No.	Distric	ot.	Population	a according to	o Census	Number	of Births regi	stered.		
No.	District		Male.	Female.	Total.	Male.	Female.	Total.		
								1 H 000		
1	Karachi .		3,28,679	2,50,753	5,79,432	9,409	8,418	17,827		
2	Hyderabad .		3,71,097	2,90,679	6,61,776	5,878	4,598	10,476		
3	Nawabshah	•••	2,79,032	2,17,580	4,96,612	4,413	3,216	7,629		
4	Thar Parkar		2,61,945	2,06,095	4,68,040	4,515	3,595	8,110		
5	Larkana	•••	2,50,178	2,01,963	4,52,141	5,943	4,736	10,679		
в	Dadu	•••	1,87,071	1,47,211	3,34,282	3,781	2,716	6,497		
7	Sukkur	•••	3,49,312	2,74,467	6,23,779	7,986	6,47 8	14,464		
8	Upper Sind Fron	ntier	1,45,58 8	1,14,738	2,60,326	2,250	1,604	3,854		
9	Town Cricles	•••	3,76,948	2,73,809	6,50,757	13,860	12,814	26,674		
10	Rural Cricles		17,95,954	14,29,677	32,25,631	30,315	22,547	52,862		
11	Grand total of th	e Province.	21,72,902	17,03,486	38,76,388	44,175	35,361	79,536		
			J	N N			7			

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

						Still-b	oirths.		
Serial No.	Distr	icts		Muham	madans	Hir	idus.	Jai	ns.
				Male.	Female.	Male.	Female.	Male.	Female.
1	Karachi	•••		92	73	106	63	•••	***
2	Hyderabad	•••		25	18	91	64	***	***
3	Nawabshah			. 1	5	8	2	•••	•••
4	Thar Parkar	•••		7	7	4	3	***	•••
5	Larkana	•••		22	22	31	24	***	•••
6	Dadu	•••		6	6	8	9	•••	•••
7	Sukkur	• • •		29	22	114	80	100	•••
8	Upper Sind F		1	3	•••	2	•••	•••	
	Total for the Province .			183	156	362	252	•••	•••

III.

in the Districts of the Province of Sind during 1936.

		5			6	
	Ratio	of Births per 1,000 ef	Population.	Mean Ratio	of Births per 1,000 evious five years.	during
	Male.	Female.	Total.	Male.	Female.	Total.
	16.24	14.53	30,77	14.63	13·19	27.82
	8.88	6.95	15.83	8.42	6.42	14'84
	8.83	6.47	15.36	11-11	8.33	19.44
	9.64	7.68	17.32	11.24	9:35	20.89
	13.14	10.47	23.61	11.74	9.07	20.81
	11.31	8.12	19:43	10'42	7.81	18.23
	22.83	18.52	41.35	13.09	10.55	23.64
	8.64	6.16	14.80	9.41	7.02	16.43
	21 '30	19.69	40.99	19.07	17'09	36·1 6
	9.39 6.99		16.38	9.91	7.50	17'41"
-	11.40	9.12	20.25	11.45	9.11	20.56

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

Still-births.												
Chris	tians.	Pa	rsis.	Other	Classes.		Total.		Percentage Ratio to Live			
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Total.	births.			
6	2	2	•••	3	· 2	209	145	354	1.98			
1	•••	•••	***	•••	***	117	82	19 9	1.89			
•••	•••	•••	•••	***	•••	9	7	16	•21			
***			•••	•••	•••	11	10	21	.25			
•••	***	•••	* •	•••	•••	53	46	99	.89			
•••	***	•••	4 0 4	•••	•••	14	15	29	•44			
***	•••	•••	•••	•••	•••	143	102	245	1.69			
•••	•••	•••	•••	•••	•••	1	5	. 6	1.22			
7	2	2	•••	3	2	557	412	96 9	1:29			

ANNUAL FORM

Annual statement showing the Deaths registered in the districts

1			•					1				
1			2					3	4		5	
	4 2 H							ω*	per	Num	ber of de	aths
								square miles.	Average Population square mile.		egistered	
er.			Distri	ata				are 1	oula. e.			
quu			DISTI	C 00,				1	Pol mil			
ลไ มา						£		Area in	rage	e e	Female.	14
Serial number.			,					Are	Ave	Male.	Fen	Total
1	Karachi ,	•••	***	•••	•••	R. C.	•••	1,615	23	226	194	420
2	Tatta	•••	•••	•••	•••	,,	•••	1,318	46	189	137	3 26
3	Mirpur Sakro	•••	•••	•••	•••	• 9	•••	1,138	30	180	121	301
4	Ghorabari	•••		•••	•••	,,	•••	339	69	94	101	195
5	Keti Bunder	•••	•••	•••	•••	1,	•••	213	63	68	59	127
6	Mirpur Bathor	0	•••	•••	•••	,,	•••	272	158	269	209	478
7	Sujawal	•••	•••	•••	•••	,,	•••	269	14	269	170	439
. 8	Jati	•••		•••	***	21	•••	1,475	23	218	166	384
9	Shah Bunder	•••	•••	400		31	•••	1,388	29	276	205	481
10	Karachi	•••	•••	•••		T. C.		2,000	_0	(3,817	3,270	7,087
11	Karachi	•••	· · · · · · · · · · · · · · · · · · ·	•••	•••	C. C.	,	62	4,098	76	49	125
12	Tatta		000	***	•••	T. C.	•••			73	53	126
	10000	•••	•••	Karachi			•••	8,089	$-\frac{\cdots}{72}$	5,755	4,734	10,489
				I WE WOULD	2130110	o i o tai	•••	0,000	Approximate descriptions		2,70 ±	10,450
13	Hyderabad	•••		***	•••	R. C.	• • •	366	212	456	337	793
14	Guni	***	.***	•••	•••	9.9	•••	987	106	465	337	802
15	Tando Bago	•••	•••	•••	•••	21	•••	650	105	282	164	446
16	Badin	•••		•••	•••	,1	•••	792	113	436	297	733
17	Tando Allahya	r	•••	•••	•••	19	•••	595	103	493	362	855
. 18	Hala	•••	•••	•••	•••	**	•••	511	222	639	449	1,088
19	Dero Mohbat	***	•••	***	400	11		498	94	356	236	592
20	Hyderabad	•••	•••	•••	•••	T. C.	•••	} 18	5,334	\(\) 1,545	1,274	2,819
21	Hyderabad	•••	***	•••	•••	C. C.	•••		9,004	20	11	31
22	Hala	•••	***	***	•••	T. C.	•••		•••	39	21	60
23	Matiari	•••	•••	* * *	•••	,,	•••	•••	* • •	76	57	133
	-			Hyderabad	Distri	et Total	•••	3,888	128	4,807	3,545	8,352
24	Shahdadpur	•••	•••		•••	R. C.		561	184	644	459	1,103
25	Kandiaro	•••	•••	•••			• • •	404	200	543	432	975
2 6	Naushahro Fe		***	•••	***	* * * * * * * * * * * * * * * * * * * *	•••	409	175	488	399	887
27	Moro	6 MT		•••	•••	9 9	•••	409	124	319	237	556
28	Sakrand	• • • •	220	104	•••	"	***	-	124	257	139	396
29	Nawabshah	•••	39 00	***	•••	,, ,,	•••	0.07	58	263	173	436
30	Sinjhoro	# 6cc	rie)	•••	•••	?! ?:	•••	1	161	370	243	613
31	Tando Adam	94 (7		•••	•••	T. C.	•••			97	74	171
32	Nawabshah	000	200		444	11				13	13	26
		•		Nawabshah i	Distri	t Total	•••	3,888	128	2,994	2,169	5,163
	1						•••	0,000	720	2,00%	2,100	0,100

No. II.

of the Province of Sind during the year 1936.

;	6													
;		•					6						7	
:					Deaths	per 1,000	of popula	ation from	m			Mean per	ratio of o	leaths ring
					and	y di-		other	A	.ll causes		previ	ous five	years.
7 10 10 80	Onorera.	Small-pox.	Plague.	Fevers.	Dysentery Diarrhæa.	Respiratory seases.	Înjuries.	All causes.	Male.	Female.	Total.	Male.	Female.	Total.
				6.85		2.61	·1 3	1.69	11.29	11.27	11.28	9.44	9.24	9.35
	••	··· '16	•••	3'24	•10	2.16	·12	•62	6.56	6'20	6.40	6.31	6.01	6.18
	••		• • •	3.09	·12	3.44	·24	1.87	9.59	7.76	8.76	10.60	9.88	10.27
•	••		•••	3.72	• • •	3.32	.08	.86	6.91	9.33	7'98	10.44	10.44	10.44
	**	•••		3.25	.59	2'95	•37	2.21	9.39	9.33	9.37	11.40	9.80	10.69
t !		•35	• • •	5·9 8	.05	3'59	1 9	1.00	11.21	11.10	11.16	11.00	10.83	10.92
1			•••	4.03	•47	5.69	·16	1.25	12.73	10.10	11.60	10.22	10.16	10.17
		•••	•••	6.03	·17	4.03	. 38	•46	11.34	10.75	11.07	12.43	12.76	12.58
ž		.07	•••	6.29	.15	4.26	·13	1.15	12.51	11.50	12.05	12.05	11.10	11.88
7		•22	•02	1.80	2.76	13.02	•42	10.36	26:31	31.82	28.60	21.73	26.20	23.58
7		•••	•••	5.88	1.12	2.59		10.44	20.50	19:34	20.03	15:37	17:37	16.02
1	•	·21	•••	3.65	·62	5.30	'10	3.22	14.28	11.73	13·1 0	13.10	11.72	12.45
		'14	·0 1	3.53	1.29	7.63	•28	5.22	17.51	18.77	18.10	15:38	16.70	15.97
			-	7.05		0.07	1.2	000	10.40	0 70	10.15	10.00	10.01	
•	•••	•01	***	5.65	·10	3*27	.15	.99	10.48	9.78	10.17	10.98	10.91	10.95
	•••	.05	•••	4.44	.17	2.24	·12	.65	7.91	7.36	7.67	9.05	8.65	8.87
•	•••	•10	•••	4.31	.05	1.24	•13	73	7·59 8·69	5.24	6.55	8.40	8.23	8.32
	•••	•11	•••	5.33	·05	1.86 2.65	•13	1.38	14.50	7'59	8·21 13·94	8.69	8.10	8.43
	' 13	•••	•••	9.36	•23	2.64	·19 ·08	.80	11.29	13·25 10·45	10.93	10.32	12·84 10·66	13·3 7 10·48
٠	• •	***	•••	8.04	·17	3.75	•34	•64	13.86	12.26	12'96	12.22	11.30	11.81
		'02	•••	3.12	1.51	12.44	.68	11.55	28.96	29.84	2 9 ·35	7222	1130	11.01
•	•••	*05	•••	4.63		•66		1.55	7 ·58	6'07	6.84	23.97	25'04	24.45
•	•••	•••	•••	4.93	•••	2.19	•••	1.09	9.87	6.25	8.21	9.62	10 [.] 13	9.72
	••	•••	•••	7.01	•••	8.22		4.04	19.34	20.63	19.86	12.97	15.93	14.19
-	01		•••	5.64	•34	3.91	•23	2.44	12.95	12.19	12.61	12.19	12'13	12.16
	-													·
	•••	.02	•••	9.33	.02	1.92	· 2 8	· 7 2	12.65	11.82	12.29	11.20	11.02	11.12
	•••	∙29	•••	9'76	.06	•68	·16	1.11	12.27	11.81	12.06	11.57	12'00	11.74
,	•••	•••		8.14	•05	'98	·25	.89	10.29	10'32	10.31	10.17	10'01	10.09
	•••	•••	•••	7.64	.05	*81	·18	•65	9.70	8.90	9.33	9.57	9'30	9.45
	•••	•••	•••	5'27	.06	•59	·17	'25	7.16	5'23	6'34	8.19	8.01	8.23
	•••	· 0 6		7.79	.04	'61	.21	·14	9.26	8.44	8.85	10'32	9.35	9.91
•	•••	·02		10.52	•02	1.37	•25	54	13.53	11'65	12.72	15.50	14.60	15.12
	• • •	•••		4'83	•22	4.39	·22	3.04	12.76	12.60	12.70	17.40	19.89	18.48
	•••	•14		1.57		1.14	.05	.73	2.99	4.83	3.70	6'00	6.10	6.15
	•••	•06	•••	8.20	.05	1.11	•25	. 73	10.76	9.97	10.40	10 .93	10.78	10.86

1			2)	3	4		5	
								lles.	on per	Num re	ber of dea gistered.	aths
ž.								Area in square miles.	Average population square mile.			
Serial number.			District	is.				anbs 1	e pop			
rial n								rea ir	verag	Male.	Female.	Total.
Se	y	-					1	V	- A . 1	<u> </u>	F4	
33	Umarkote	•••	•••	•••	•••	R. C.	•••	1,459	30	298	211	5 09
34	Jamesabad	•••	***	•••	•••	13		505	61	2 27	193	420
35	Chachro	•••	•••	***	•••	99	•••	2,797	22	316	250	566
36	Nagar Parkar	•••	•••	•••	• • •	12		1,618	26	298	261	559
37	Diplo	•••	•••	•••	•••	17	•••	1,503	16	199	130	329
3 8	Mithi	•••	•••	•••	•••	31	•••	1,562	29	268	231	499
39	Khipro	•••		•••	•••	19	•••	2,251	23	253	129	382
40	Sanghar	***	•••	•••	•••	1,	•••	818	41	221	139	360
41	Mirpurkhas	•••	. • •	•••	•••	91	•••	415	115	241	152	393
42	Samaro	•••	•••	•••	• • •	ù S	•••	483	91	291	173	464
43	Digri	•••	•••	•••	***	,,	•••	225	191	378	248	626
44	Umarkote	•••		•••	•••	т. с.	•••	•••	•••	57	53	110
45	Mirpurkhas	•••	•••	•••	•••	**	•••			99	62	161
			Th	ar Parkaı	Distric	t Total	•••	13,936	34	3,146	2,232	5,378
								1				
46	Larkana	•••	•••	•••	•••	R. C.	•••	217	329	407	323	730
47	Warah	•••	•••	•••	•••	11	••	380	148	395	283	678
48	Dokri	•••	***	•••	•••	21	•••	326	235	544	416	960
49	Kambar	•••	•••		•••	91	•••	473	173	465	394	8E9
50	Mirokhan	•••	•••	•••	•••	••	***	288	164	253	299	552
51	Ratodero	•••	•••	•••	•••	11	•••	214	241	355	282	637
52	Shahdadkot	•••	•••	•••	•••	19	•••	577	58	170	130	300
53	Larkana	•••	•••	•••	•••	T. C.	•••	2	13,420	250	226	476
54	Kambar	•••	4 > •	•••	•••	91	•••	•••	•••	47	32	7 9
55	Ratodero	• • • •	•••	•••	•••	,1	•••	•••	•••	70	56	126
				Larkana	a Distric	et Total	•••	2,477	150	2,956	2,441	5,397
56	Kotri	•••	•••	•••	•••	R.C.	•••	1,496	2 2	239	210	449
57	Kohistan	•••	•••	•••	•••	2>	•••	1,806	9	77	60	137
58	Sehwan	•••	•••	•••	•••	91	•••	1,273	35	372	283	655
59	Johi	•••	•••	•••	•••	,,	•••	755	68	324	248	-572
60	Dadu	•••	•••	•••	•••	33		297	194	272	218	490
61	Kakar	•••	•••	•••	•••	**	•••	448	108	299	201	500
62	Mehar	•••	•••	•••	•••	22	•••	. 364	•••	368	274	642
63	Kotri	•••	•••	•••	•••	T.C.	• • •		•••	42	43	*** 85
64	Sehwan	•••	•••	•••	•••	23	•••	• • • • • • • • • • • • • • • • • • • •	•••	21	20	- 41
65	Dadu	•••	*68	•••	•••	31	•••	•	•••	41	38	79
				Dad	u Distr	ict Total	l	6,439	51	2,055	1,595	3,650
	1	7-1			.,			-	1	l .	ı	

Deaths per 1,000 of population from Mean ratio of deaths														
		4		Deaths	per 1, 00 0	of popul	ation fro	\mathbf{m}				A* 6	7 /7	
	[]		and	di.		100				pe	r 1,000 du r 1,000 du vious five	ring	
	0 % .					_	other		All cause) S			-	
Cholera.	Small-pox.	Plague.	Fevers.	Dysentery Diarrhæa.	Respiratory seases.	Injuries.	All causes.	Male.	Female.	Total.	Male.	Female.	Total.	
•••		•••	8.83	·15	2 ·45	.20	1.21	13'37	12.16	12'84	13.70	12.68	13.22	
••.	.09	•••	9.01	·16	2.60	'33	1.47	13'21	14.23	13.66	15.88	15'49	15'70	
•••		•••	7.21	.02	1.00	.08	.79	9.51	8'69	9'13	13'88	11.28	12.81	
•••	•28	•••	8.60	12	3.51	'19	'99	13.13	13.48	13.39	12'19	10.91	11.62	
•••	•39	•••	7.60	.05	3'64	'20	1.15	14.48	12.17	13.03	17'83	17:04	17.46	
•••	02	•••	8.88	•04	.72	.20	1.05	10.99	10.82	10.81	15.31	14.78	15.22	
•••	.16	•••	4.39	•08	2.09	·10	.66	8.61	6.02	7.48	11.58	11.15	11.40	
•••	•••	•••	5.18	.06	3.85	·24	1.36	11:04	10.10	10'66	10.74	10.96	10.83	
•••	1 16	•••	5.24	.03	3.24	'16	1.39	11.33	9.44	10.52	14.94	14.72	14.58	
•••	•02	•••	6.40	•••	2.60	•11	1.46	11.53	9.33	10.59	10'66	10.19	10.46	
•••	•••	•••	8.90	.05	3.95	.24	1.40	15.63	13.14	14.54	17.98	17:11	17.60	
•••	•••	•••	12.50	'26	12.76	•••	3.12	27'84	29.54	28.64	22'47	23.35	23.16	
	•••		5.30	'51	6.87	·20	2.94	15.42	16.50	15.82	11.52	12.21	11.90	
	.09	•••	7'05	•07	2.69	.17	1.19	12.09	10.80	11:26	13.90	13.18	13.57	
								}						
•••	•••	***	9.01	'03	' 32	'25	.63	10.32	10.14	10.24	14.05	14.22	14.13	
•••	·21	•••	10.16	·04	*31	•45	[,] 91	12.87	11.14	12.08	10'61	10.75	10.67	
•••	*24	***	11.12	•01	'46	. 18	. 23	12.85	11.74	12.54	12.52	11.97	12.27	
•••	·01	•••	11.35		.02	•22	•29	11.72	12'18	11.92	10'40	11.35	10.83	
•••	•••	•••	10'91	•••	'21	.12	•42	9.62	14.21	11.69	12.72	13'45	13.05	
• • •	•••	•••	11.57	• • •	·13	·21	.39	12.61	11.94	12:30	14.62	14.86	14.87	
•••	•••	***	7'94	^{'06}	·36	·17	'45	9.18	8'94	8 .3 8	12.00	10,96	11.54	
•••	•••	•••	4.72	·63	5'21	·37	6.80	15.98	20'17	17 .7 3	18'80	20.17	20.01	
***	***	•••	6.38	·10	•82	'20	·62	8'55	7.59	8.12	14.00	18.98	16'15	
•••			16.33	•••		.69	-14	17.50	17.01	17:30	18.28	22.77	20:31	
	-07		10.09	-06		•25		11.81	12.09	11.93	12.55	13.35	13'13	
	.43		10:01		.00		7 (-	10	7.0					
***	•41	•••	10.21		1.07	.30	1.45	13.05	13.20	13'26	14.03	13.11	13.64	
***	•40	•••	3'63	'12	1.37	'23	2.13	8.25	7:46	7 ·88	7.07	6.71	6.90	
***	•23	•••	11.50	.18	2.26	•41	2.09	16.96	16'36	16.67	13.90	14.40	14'17	
***	.02	•••	9:30	.08	75	•23	.74	11.41	10'73	11.12	10.80	10.25	10.63	
•••	•••	•••	8.40	.04	45	•27	'45	9.20	10'17	9.61	10.92	11.48	11.15	
•••	.14	•••	9.12	.13	20	•21	•66	11.20	9.24	10.32	11'53	11-12	11.35	
***	14	•••	7.59	*05	'31	·28	.74	9.26	8.91	9.11	10.01	11'68	10.73	
•••	•20	***	4.29	.29	1'90		1.79	6.77	11.22	8.47	9.99	11.22	10.56	
•••	•••	•••	3.45		2.41		1.21	5.97	8.32	7.07	7.10	9.66	8.11	
	.10		8'08	•61	•77	·15	2:43	11.96	12.12	12.04	2.04	1.59	1.83	
	·13	•••	8:54	.09	.83	'26	1.07	10.98	10.84	10.92	11.16	11.47	11.29	

	•							3	4		5	 1
1	/		2					0		Num	ber of de	aths
								iles.	ion 1	r	egistered	
<u>.</u>								Area in square miles.	Average population per square mile.			
Serial number.			Districts.				1	sdna	o poi		•	
al nu								a in	erage	Male.	Female.	Total.
Seri		•						Are	Av	ž	F	H
						R. C.		247	248	521	430	951
66	Sukkur	•••	•••	•••	•••	R. C.	* * *	498	147	421	337	758
67	Shikarpur	•••	•••	•••	•••	3 8	• • •	1,629	48	194	149	343
68	Rohri	•••	•••	* * *	***	99	•••	402	171	479	414	893
69	Garhi Yasin	• • •	•••	•••	***	"	•••	341	137	356	281	637
70	Ghotki	•••		• • •	•••	**			120	255	228	483
71	Pano Akil	•••	•••		***	,,	***	393	30	305	202	507
72	Mirpur Mathel	0		***	•••	""	•••	1,604			1	635
73	Ubauro	•••	•••	•••	***	**	•••	462	100	354	281	
74	Sukkur	•••	•••	•••	•••	Т. С.	•••	3	23,092	591	395	986
75	Shikarpur	•••	•••	•••	•••	91	•••	9	6,745	898	764	1,662
76	Rohri	•••	***		•••	,,	•••	•••	•••	102	6 0	162
77	Garhi Yasin	***	•••		•••	"	•••	3 /200//////////////////////////////////		68	61	. 129.
				Sukkur	Distric	t Total	•••	5,608	111	4,544	3,602	8,146
78	Jacobabad	•••	•••	•••	•••	R, C.		254	157	174	147	321
79	Garhi Khairo	•••	•••	•••	•••	,,	•••	273	135	1 41	152	293
80	Kandhkot		***	•••	•••	,,	•••	542	119	208	141	349
	Thul	•••		•••	•••	, 91	•••	497	63	247	209	456
82	Kashmor	•••	•••	•••	•••	,,		543	76	153	124	277
83	Jacobabad	•••	***	•••	•••	т. с.			•••	79	75	154
			Upper Sind	Frontier	Distric	et Total	l	2,109	123	1,002	848	1,850
				otal of al				94	265	8,121	6,707	14,828
			Т	otal of a	l1 Rura	l circles	· · · ·	46,569	69	19,138	14,459	33,597
				Total o	of the P	rovince		46,663	83	27,259	21,166	48,425
	V							1				

				7									
			1	eaths pe	r 1,000 o	f populat	ion from					ratio of	
				and	di-		other		All cause	s.	per previ	1,000 du lous five	ring years.
ä	pox.			ery hæa.	tory:	, va			1				
Cholera.	Small-pox.	Plague.	Fevers.	Dysentery Diarrhæa.	Respiratory seases:	Injuries.	All causes.	Male.	Female.	Total.	Male.	Female.	Total.
				1		·		(<u>'</u>		1]	
•••	'20		11.84	•10	•62	•20	1'37	14.21	14.48	14.33	17.92	19.73	18.73
•••	'0 4	•••	9:51	.01	.23	·14	.39	10.42	10.21	10.32	12.88	13.39	13.11
***	•••		3.77	.02	·2 _, 8	.04	.30	4.41	4.40	4.41	7.68	7.91	7'76
•••	.03	•••	12.85	.02	.47	.26	•94	14.29	14.90	14.57	17:33	18.60	17.91
•••			10.78	•25	1.26	·13	.87	13.79	13.36	13.29	19:45	19.67	17.53
•••	.02	•••	8.62	.06	·62	.21	.68	9.76	10.76	20.21	13.13	13.07	13.09
•••	•••	•••	9.29	•••	·51	.19	·45	11.41	9.26	10.44	15.81	15.37	15.61
•••	•••	•••	12.05	.17	•54	.19	.81	14.00	13.47	13.76	15.73	16.15	15.94
•••	•••	•••	2.96	1.93	4.68	· 4 5	4.21	13.65	15.20	14.23	12.68	14.77	13.45
•••	.03	•••	7.35	·43	2.77	•30	15.70	26.61	26.56	26.58	24.06	25.38	24.67
•••	•••	•••	5.33	· 4 1	2.42	.06	1:36	10.04	8.90	9.28	12.30	14.98	13.31
•••	•••	•••	11.80	·14	2'03	·27	3.26	18.08	16.90	17.50	22.06	25.76	23.88
•••	.03	•••	8:54	.33	1.30	.21	2.65	13.01	13.12	13.06	15.26	16.33	15.73
•••	.15	•••	7:73	•••	.05	.05	.07	7:81	8.32	8.05	10.51	11.63	11.01
•••	•••	***	7:31	•••	•••	'26	· 1 8	6.83	9.01	7.75	7.27	6.82	7.07
•••	.02	•••	4 ·92	.02	·17	•20	.08	5.74	4 ·98	5.41	9 .38	9.25	9:33
***	*05	•••	6.83	.08	.07	15	•25	7.26	7.66	7.43	9.93	10.20	10.21
•••	•••	•••	5.90	.09	·19	·19	·31	6.66	6.66	6'68	11.88	11:38	11.64
•••	1'40		7.12		.30	•••	.95	8:35	11.92	9.77	9.09	11.13	9.91
••••	12	•••	6.44	•04	·12	15	•23	6.90	7.39	7:10	9.80	10.00	9.88
•••	•14	.001	3.77	1.61	8.46	.3 9	8:41	21.54	24.49	22.78	18.88	21:94	20.16
002	•07	•••	7.81	•08	1:46	•19	.79	10.66	10.12	10.40	11.82	11:74	11.78
:0002	•07	.0001	7.14	•34	2:64	•23	2.07	12.54	12*42	12:49	13.04	13:38	13.19

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

									- AND THE OF THE ASSOCIATION	
		. Assessment of the state of th				January.	February.	March.	April.	May.
ADis	TRICTS	(EXCLUDING	TOWN	s).		- Supular				
Karachi	•••	•••	***		•••	452	447	414	2 3 2	260
Hyderabad	•••	•••	•••		•••	684	78 <u>2</u>	716	474	376
Nawabshah	• • •	•••	•••		•••	684	624	619	459	416
Thar and Parl	ka r		•••		•••	`558	690	678	5 6 3	437
Larkana	•••	•••	•••		•••	568	517	534	424	30 8
Dadu		•••	•••		•••	458	320	407	309	290
Sukkur	•••	***	•••		•••	682	547	521	386	296
Upper Sind Fr	rontie r	•••	. •••	,	•••	182	144	173	132	118
		Total f	or * Dist	tricts	••1	4,268	4,071	4,062	2,979	2,501
	. Rati	io per mile of	popul	ation	••6	1.32	1.26	1.26	•92	•78
	В.	.—Towns			4					
	Kara	chi District.							۶.	
Karachi	•••	•••	•••	т. с.	•••	69 8	714	728	682	658
Karachi	•••	•••	•••	C. C.	•••	10	8	14	14	. 7
Tatta	•••	•••	•••	т. с.	•••	22	21	12	7	7
	Hyder	abad Distric	t.							
Hyderabad	•••	•••	•••	T. C.	•••	303	324	274	229	242
Hyderabad	•••	•••	•••	C. C.	•••	3	3	1	3	. 6
Hala	***	•••	•••	т. с.	•••	10	10	8	6	4
Matiari	•••	•••	•••	>>	•••	.28	.19	18	11	3
	Nawai	bshah Distric	zt.					146		
Nawabshah	•••	•••	•••	т. с.	•••	5	1	6	7	•••
Tando Adam	•••	•••	•••	,,	•••	33	27	16	' 14	12
$oldsymbol{T} h$	h ar a nd	Parkar Dis	trict.							
Mirpurkhas	•••	***		т. с.	***	20	30	18	10	10
Umarkot	***	•••	•••		•••	13	35	5	5	7
	Larke	ana District	0							
Larkana	•••	•••	•••	T.C.	•••	49	43	32	39	41
Kambar	•••	•••	•••	29	•••	8	6	7	7	7
Ratodero	•••	•••	•••	9 0	••	13	15	16	8	9

No: III.

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

	June.	July.	August.	September.	October.	November.	December.	Total Deaths registered during the year.
	!							
	153	171	178	163	156	283	242	3,151
	309	277	299	299	315	322	456	5,309
•	279	243	260	272	291	394	425	4,966
	311	2 73	377	257	370	329	364	5,107
	229	312	304	34 0	420	439	321	4,716
	179	180	229	226	254	286	307	3,445
	301	291	392	315	414	581	481	5,207
	94	107	107	126.	192	190	131	1,696
	1,855	1.854	2,046	1,998	2,4 2	2,824	2,727	33,597
	*58	.57	63	•61	.75	.8 8	·85	10.41
	5 39	496	52 9	478	490	514	561	7,087
	10	11	8	12	9	16	6	125
•	11	6	8	8	7	9	8	126
			1					
	215	189	229	191	180	204	239	2,819
	1	2	4	6	1		1	31
	1	3	4	3	4	5	2	60
	8	8	6	14	5	3	10	133
	4	2		•••	•••	•••	6 6 6	26
	4	9	` 9	8	8	11	20	171
	3	3	9	2	8	22	26 .	161
	7	2	3	10	. 6	4	13	110
								•
to.,	50	34	29	23	38	49	49	476
	2	6	6	3	6	9	12	7 9
	13	7	4	9	4	7	21	126

			January.	February.	March.	April.	May.
	B.—Towns—contd.						
	Dadu District.						
Kotri	***	T. C	13	7	8	5	3
Dadu	***	,,	7	5	9	3	18
Sehwan	•••	,,	7	8	•••	5	3
	Sukkur District.						
Sukkur		T. C	100	101	6 8	81	92
Shikarpur	***	,,	157	149	124	12 5	144
Rohri		,,	18	11	21	13	23
Garhiyassin	•••	,,	19	16	11	5	τ1
Tron	er Sind Frontier Dist	rict.					
Jacobabad		т. с	14	8	7	8	15
	Total	for towns	1,550	1,561	1,403	1,287	1,322
	Ratio per mile	e of towns	2:38	2:38	2.16	1.98	2.03
-	Total for the	province	5,818	5,632	5,465	4,266	3,823
	Ratio per mile for the	province	1.20	1.46	1.41	1:10	*98

.

No. III—concld.

,	June.	July.	August.	September.	October,	November.	December.	Total Deaths registered during the year.
,								
	9	* 7	5 >	7	5	8	8	85
	6	9	2	4	4	2	10	79
	1	1		1	1	5	9	41
								,
	75	70	88	63	6 5.	85	98	986
	134	135	106	118	138	164	168	1,662
	14	. 3	7	13	10	14	.15	162
	14	5	9	8	9	11	11	129
				-				
	5	5	18	10	7	26	31	154
	1,126	1,013	1,084	991	1,005	1,168	1,3 18	14,828
	1.73	1.26	1'67	1.52	1.55	1.79	2.03	22.78
	2,981	2,867	3,130	2,989	3,417	3,992	4,045	48,425
	•77	.74	*81	.77	*8 8	1.03	1.04	12:49

. . . .

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

					Under	one year	•		
				No	nt exceeding	one mon	th.		
Distric	ets and To	owns.		Male.			Female.		Total.
			Under one week.	Over one week,	Total.	Under one week.	Over one week.	Total.	
A—DISTRI	CTS (EX	CCLUDING				,			
Karachi	•••		53	4 3	96	52	44	96	192
Hyderabad		•••	88	89	177	79	79	158	338
Nawabshah	•••	•••	100	110	210	85	98	183	3 9 5
Thar Parkar	•••	•••	104	80.	184	118	74	192	376
Larkana	•••	•••	105	92	197	90	71	161	358
D a du	•••		81	7 8	159	74	58	132	291
Sukkur	•••	•••	108	123	231	97	110	207	438
Upper Sind From	ntier		24	25	49	27	22	49	99
		Total	663	640	1,303	622	556	1,178	2,48
n	_TOWN	·c		*			. 1		5
В,	—10WA								
Kar	achi Dist	trict.		,		-			
Karachi	•••	Т. С	254	167	421	144.	. 118	262	683
Karachi	•• 6 .	C. C	8	1;	9	5	5	10,	19
Tātta	0.0.4	* T. C	2	3	5	3	2	5	10
Hyden	rabad Di	strict.					*		
Hyderabad	•••	т. с	89	64	153	86	75	161	314
Hyderabad	•••	C. C	1	0	1	0	0	0]
Hala	}	T. C	4	2	6	2	0 + 1	2	8
Matiari	* • •	55	1	1	2	1	1	2	4
Nawa	abshah Da	istrict.	-						
Nawabshah		Т. С	1	0	1	0	0	C	
Tando Adam	•••	*** 19 ***	1	1	2	2	2	4	6
Thar	Parkar .	District.							
Mirpurkhas	• • •	T. C	1	1	2	3	1	4	
Umarkot	***	*** 23 ***	2	1	3	1	1	2	
Lar	kana Di	strict.			_				
Larkana	***	T. C	14	12	26	14	13	27	5
Kambar	•••	*** 31 ***	2	2	4	0	2	2	
Ratodero	•••	99	0	3	3	1	0	1	

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

-					Under or	o year—c	contd.				
,	Over exec	one month a eeding six mo	nd not	Over s execedi	six months and twelve mo	nd not onths.		Total.			nd under five rears.
-	Male.	Female,	Total.	Male.	Female.	Total.	Male.	Female	Total.	Male.	Female,
	94	80	174	46	39	85	236	215	451	210	150
	143	88	231	60	48	108	380	294	674	310	236
	120	120	240	72	49	121	402	352	754	353	264
	129	97	226	63	74	137	376	363	739	292	218
	144	118	262	7 5	77	152	416	356	772	387	301
	121	. 93	214	44	24	6 8	324	249	573	225	181
	204	171	375	94	86	180	529	464	993	412	309
	59	50	109	20	41	61	128	140	26 8	129	130
-	1,014	817	1,831	474	438	912	2,791	2,4 33	5224	2,318	1,789
-											
	427	369	79 6	446	403	819	1,294	1,034	2,328	7 80	753
	7	1	. 8	3	5	8	19	16	35	12	8
	1	6	7	2	2	4	8	13	21	4'	4
	131	110	241	147	139	286	431	410	841	222	203
	1	0	1	2	0	2	4	0	4	0	3
	1	1	2	3	0	3	10	3	13	4	2
	1	1	2	1	1	2	4.	4	8	8	6
	0	1	1	1	1	2	2	2	4	2	2
	8	3	11	2	1	3	12	8	20	10	, 9
	4	1	5	1	3	4	7	8	15	3	0
	3	1	4	1	0	1	7	3	10	4	8
		1	3	1	0	1		J	10	4	ð
	16	12	28	24	22	° 46	66	61	127	32	41
	2	2	4	1	0	1	7	4	11	6	2
	5	4	9	6	4	10	14	9	23	11	7

			Under	one year.	3000	,,	
		Not	execeding on	e month.			
		Male,			Female.		Total.
•	Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.	
B-TOWNS-contd.							
Dadu District.			4	7	1	8	12
Kotri T. C	4	0	4	7		7	
Dadu	2	4	6	2	5		13
Sehwan ,	0	0	0	0	1	1	1
Sukkur District.					·		
Sukkur T. C	26	24	5 0	16	12	28	78
al II	45	41	86	37	50	87	173
n i i	9	4	13	2	3	5	18
~	2	3	5	4.	3	7	12
Garhiyasin ,,							
Upper Sind Forntier District.							
Jacobabad T. C	2	5	. 7	3	0	3	10
Total for towns	470	339	809	33 3	295	628	1,437
Total for the province	1,133	979	2,112	955	851	1,806	3,918
Ratio per mile of population			•••	·	•••	•••	•••

No. IV-contd.

	r one month a eeding six mo			ix months aring twelve m			Total.		One and under five years.		
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	
2	4	6	3	3	6	9	15	24	5	3	
4	5	9	0	3	3	10	15	25	7	5	
2	0	2	1	0	1	3	1	4	2	3	
									,		
62	43	105	54	37	91	16 6	108	274	83	47	
123	82	205	81	70	151	290	239	529	105	93	
14	9	23	3	1	4	30	15	45	6	7	
7	4	11	2	0	2	14	11	25	12	12	
		-			(
8	4	, 12	14	3	17	29	10	39	15	24	
829	663	1,492	798	698	1,496	2,436	1,989	4,425	1,333	1,247	
1,843	1,480	3,323	1,272	1,136	2,408	5,227	4,422	9,649	3,651	3,036	
***		•••		•••	•••	118:33	125.05	121.31	14:77	12:77	

				Five a	ınd und er	Tonord	ow 15 mag.	15 00 3 3	0 11 10 11 11 11 11 11 11 11 11 11 11 11
	**************************************				years.	Ten and und	er 15 years.	15 and und	er 20 ye ar s.
				Male.	Female.	Male.	Femalė.	Male.	Female.
A-DISTRI	CTS (E.	XCLUDIN	G						
Karachi	•••	•••		86	77	87	58	79	. 60
Hyderabad	•••	***		145	128	113	92	144	128
Nawabshah	• • •	•••		166	145	122	69	74	69
Thar Parkar	•••	• • •	•••	150	105	132	94	101	72
Larkana	•••	***	•••	165	155	96	6 6	88	43
Dadu	•••	***	•••	102	86	63	61	82	68
Sukkur	•••	•••	•••	137	132	121	104	110	96
Upper Sind Fro	ntier	•••	• • •	50	59	41	26	34	21
		Tot	al	1,001	887	775	570	712	557
R	-TOWN	vs.					-		
Kar	achi Di	strict.						,	
Karachi	• • •	Т.	C	106	109	65	83	87	119
Karachi	• •••	C.	C	1	° 1	•••	•••	2	2
Tatta	•••	Т.	C	1	2	2	2	1	2
Hyde	rabad D	istrict.							
Hyderabad	*10	Т.	C	32	30	23	25	58	85
Hyderabad	•••	C.	C	• • •	1	•••	•••	•••	1
Hala	***	Т.	C	•••	•••	1	1	• • •	· 1
Matiari	• • •	•••	,	1	2	2	3	2	4
Nawa	bshah D	istrict.							
Nawabshah	•••	т.	C	2	•••	• • •	1	2	2
Tando Adam	•••	a.z.e. 1	,	2	2	3	1	8	4
, Thar 1	Parkar I	District.							
Mirpurkhas	•••	Т.	C	5	3	2	2	9	3
Umarkot	***	***	,		1		2	5	7
Lari	kan a Di :	stirct.							
Larkana	***	Т.	C	8	5	4	3	6	10
Kambar	•••	*** ;	,	4.	***	2	3	•••	1
Ratodero	•••		,,	3	4	3	$_2$. 3	3

No. IV-contd.

	d under years.		d under gears.	40 and 50 ye			under ears.	60 yea upw	rs and ards.	Ages not known.		Total (all ages.)	
Male.	Female.	Male.	Female.	Male,	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
205	201	253	192	198	139	174	94	261	176	•••	•••	1,789	1,362
308	312	473	345	407	248	353	159	494	240	•••	•••	3,127	2,182
272	297	336	281	358	185	3 13	166	488	254	•••	•••	2,884	2.082
364	320	379	277	351	218	351	156	494	294	•••	•••	2,990	2,117
222	253	277	320	275	191	216	137	447	305	! •••	•••	2,589	2,127
161	200	220	209	233	138	190	88	351	214	•••		1,951	1,494
218	292	310	274	278	212	272	127	498	312	***	•••	2,885	2,322
79	92	89	98	102	67	95	44	176	96	•••	•••	923	773
1,829	1,967	2,337	1,996	2,202	1,398	1,964	971	3,209	1,891	•••	***	19,138	14,459
-													
		•											
250	324	275	200	256	136	222	115	482	397		•••	3,817	3,270
9	4	9	3	5	1	7	2	13	12	• • •		76	49
7	6	9	2	14	7	4	7	23	8	•••	***	73	53
145	137	140	81	190	83	119	66	185	154	•••	•••	1,545	1,274
5	1	1		2	• • •	2	5 6 6	•6	5	•••	• • •	20	11
2	3	1	3	3	3	6	2	12	3		•••	39	21
3	10	12	7	12	3	8	5	24	13	•••	•••	76	5 7
1			2	1	1	2		1				13	13
11	3	11	13	12		15	8	13	12	•	•••	97	74
17	10	11		12	.7	10	0	10	12	•••			
18	10	15		19	6	14	3	7	7		•••	99	62
12	14	5	7	12	4.	5	6	7	4	• • •	•••	57	53
35	27	38	29	19	12	21	17	21	21	* * *	•••	250	226
4	1	8	7	5	I	3	***	8	8		***	47	32
5	4	4	11	4	5	11	1	12	10	•••	•••	70	56
				t		1							

					nd under years.	Ten and und	ler 15 years.	15 and und	er 20 years.
				Male.	Female.	Male.	Female.	Male.	Female.
В	-TOWNS-	-contd.							
-	Dadu Distr	rict.			*				
Kotri	•••	•••	T. C	. 1	1	•••	1	1	3
Dadu	• • •	•••	23 **	. 7	3	1	2	•••	•••
Sehwan	•••	•••	,, ,,	. 1	• • •	1	2	1	1
	y	t							
	Sukku r Dis i		т. с	. 27	11	10	15	16	24
Sukkur		***		96	16	19	25	20	44
Shikarpur	• • •	•••	59 ··	1	2		1	2	4
Rohri	4 4 4	***		ß	6	2	1	1	2 (
Garhiyasi n		***	22 •				_	_	
Upper S	Sind Fronti	er Distr	ict.						'
Jaeobabad	***	•••	т. с	. 2	7	3	1	3	3
	\mathbf{T}_{0}	otal fo r t	owns .	. 236	206	143	176	227	325
	Total for	the pro	vinee .	. 1,237	1,093	918	746	939	882
Ratio	o per mille o	of popul	ation .	. 4.32	4.91	3.72	4.29	4.97	5:31

No. IV-concld.

20 ai 30	nd under years.		nd under years.	40 and 50 y	l unde r ears.			ors and Ag		es not	Total (all ages).		
Male.	Female.	Male.	Female.	. Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
										,			
3	7	6	4	8	3	5	2	4	4	,		42	1
1	9	4	2	4	•••	3	1	4	1	•••	•••	41	43
2	4	1	3	6	2	1	•••	3	4	•••	•••	21	38 20
						. 1					•••	21	20
54	48	58	40	E 4	10	•							
38	80	61	58	54 99	19 45	50	23	73	60	•••	•••	591	395
7	8	6	6	15	1	82	24	158	140	•••	•••	898	764
2	10	6	2	6	4	11	10	24	6	•••	•••	102	60
	10				·	5	2	. 14	11	•••	•••	68	61
6	8	5	3	3	8	4	1	9	10			70	
								<i>J</i>	10			79	75
620	7 33	675	495	749	351	600	295	1,102	890	•••	•••	8,121	6,707
2,449	2,700	3,012	2,491	2,951	1,749	2,564	1,266	4,311	2,781	•••	•••	27,259	21,166
5.73	7.83	8.66	10.09	14:10	11.22	24.57	16.11	63.64	49:31			12.54	12:42

ANNUAL FORM

Deaths registered according to Classes and sex in

					the second secon				
1		2				hand a state of the		Number of	
No.		Districts.		-	Muhamm	nadans.	Hind		
110.					Male.	Female.	Male.	Female.	
1	Karachi	***	•••	•••	3,545	2,759	2,100	1,891	
2	Hyderabad	***	•••	•••	2,871	1,954	1,894	1,561	
3	Nawabshah	•••	•••	•••	2,076	1,527	918	641	
4	Thar Parkar	•••	•••	•••	1,717	1,132	1,426	1,099	
5	Larkana	•••	•••	•••	2,361	1,925	595	516	
6	Dadu	•••	•••		1,603	1,228	451	366	
7	Sukkur	***	***	•••	2,638	1,988	1,900	1,601	
8	Upper Sind F	rontier	•••	•••	82 6	716	17 6	132	
		Total for t	he Provin	ice	17,637	13,229	9,460	7,807	
1		2			J		er vog Store bereit in Sound w		
							RA	TIO OF DEAT	
No.		Districts	3.		Muhamr	nadans.	Hindus.		
					Male.	Female.	Male.	Female.	
1	Karachi		***	•••	15.35	15.07	23.55	31.22	
2	Hyderabad	•••	•••	•••	11.04	9.74	17•34	17:58	
3	Nawabshah	•••	•••	***	9 ·7 1	9:31	14.48	12.23	
4	Thar Parkar	•••	•••	***	12.41	10.52	11.70	11:31	
5	Larkana *	•••	•••	***	11.05	11.67	13·17	14.02	
6	Dadu	•••	•••	•••	10.12	9 91	15.93	15'91	
7	Sukkur	***	•••	•••	10'62	10:37	19.57	19.90	
8	Upper Sind	Frontier	•••	•••	6.33	6.87	11.74	12:44	
		Total for	r the Prov	ince	11.12	10.67	16.62	17:34	
	A.								

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

	istians.	D		1	
		F	arsis.	Othe	er Classes.
Male.	Female.	Male,	Female.	Male.	Female.
63	47	15	19	30	13
•••	1	***	•••	42	29
***	1,	•••	•••	•••	•••
1	1	•••	•••	2	•••
•••	•••	***		***	***
•••	•••	•••	•3•	1	1
2	3	•••		4.	10
•••	•••	***	***	•••	200
66	53	15	19	79	53
	1 2 2	63 47 1 1 1 2 3	63 47 15 1 1 1 2 3	63 47 18 19	63 47 18 19 30 42 1 2 1 2 1 1 2 3 1 4 44

PER	1.000	OF	POPULATION.

J	ains.	Chr	istians.	Pa	arsis.	Other (Classes.
Male.	Female,	Male.	Female.	Male.	Female.	Male.	Female.
5'55	19:23	10 [.] 97	10.97	8.26	11.90	42.01	21•38
# 6 6	•••	•••	4.27	• • •	•••	29.01	3 3 •5 6
***	•••	***	18.18	,	•••	•••	•••
•••	***	13.51	26.32		200	1:22	•••
•••	***	•••	•••	000	•••	***	•••
***	•••			•••	•••	9•26	6•71
•••	•••	4.17	8.65	•••	•••	1.53	5 ·0 8
***	• • •	•••	•••	••	•••	•••	***
3.17	9.76	9.54	10.36	8.03	11:40	8*57	8*62

80

ANNUAL FORM

Deaths registered from different causes and Births in the Districts

No- Districts and Towns. Population according to Census of 1931, Male. Female.	T-4-1 1	Birth rate. 10.62 10.94 15.53 17.42 22.69 19.80
1 Karachi 3,15,766 1,970 1,383 2 Hyderabd 5,47,229 3,597 2,393 3 Nawabshah 4,76,120 4,259 3,129 4 Thar Parkar 4,54,021 4,396 3,514 5 Larkana 4,08,298 5,184 4.080 6 Dadu 3,11,892 3,604 2,571 7 Sukkur 4,67,727 5,182 3,939 8 Upper Sind Frontier 2,44,578 2,123 1,538 Total of the Districts 32,25,631 30,315 22,547 32,25,631 30,315 22,547	5,990 7,388 7,910 9,264	10·94 15·53 17·42 22·69
2 Hyderabd 5,47,229 3,597 2,393 3 Nawabshah 4,76,120 4,259 3,129 4 Thar Parkar 4,54,021 4,396 3,514 5 Larkana 4,08,298 5,184 4.080 6 Dadu 3,11,892 3,604 2,571 7 Sukkur 4,67,727 5,182 3,939 8 Upper Sind Frontier 2,44,578 2,123 1,538 Total of the Districts 32,25,631 30,315 22,547 B.—TOWNS. 32,25,631 30,315 22,547	5,990 7,388 7,910 9,264	10·94 15·53 17·42 22·69
3 Nawabshah 4,76,120 4,259 3,129 4 Thar Parkar 4,54,021 4,396 3,514 5 Larkana 4,08,298 5,184 4,080 6 Dadu 3,11,892 3,604 2,571 7 Sukkur 4,67,727 5,182 3,939 8 Upper Sind Frontier 2,44,578 2,123 1,538 Total of the Districts 32,25,631 30,315 22,547 , B.—TOWNS.	7,388 7,910 9,264	15·53 17·42 22·69
3 Nawabshah 4,76,120 4,259 3,129 4 Thar Parkar 4,54,021 4,396 3,514 5 Larkana 4,08,298 5,184 4.080 6 Dadu 3,11,892 3,604 2,571 7 Sukkur 4,67,727 5,182 3,939 8 Upper Sind Frontier 2,44,578 2,123 1,538 Total of the Districts 32,25,631 30,315 22,547 B.—TOWNS. 32,25,631 30,315 22,547	7,910 9,264	17:42
5 Larkana 4,08,298 5,184 4.080 6 Dadu 3,11,892 3,604 2,571 7 Sukkur 4,67,727 5,182 3,939 8 Upper Sind Frontier 2,44,578 2,123 1,538 Total of the Districts 32,25,631 30,315 22,547 B.—TOWNS.	9,264	22.69
6 Dadu 3,11,892 3,604 2,571 7 Sukkur 4,67,727 5,182 3,939 8 Upper Sind Frontier 2,44,578 2,123 1,538 Total of the Districts 32,25,631 30,315 22,547 B.—TOWNS.		
7 Sukkur 4,67,727 5,182 3,939 8 Upper Sind Frontier 2,44,578 2,123 1,538 Total of the Districts 32,25,631 30,315 22,547 B.—TOWNS.	6,175	19:80
8 Upper Sind Frontier 2,44,578 2,123 1,538 Total of the Districts 32,25,631 30,315 22,547 B.—TOWNS.	1	10 00
Total of the Districts 32,25,631 30,315 22,547 B.—TOWNS.	9,121	19.50
B.—TOWNS.	3,661	14.97
	52,862	16.38
RARACHI DISTRICI.		
9 Karachi T. C 2,47;791 7,169 6,768	13,937	56.24
10 Karachi C. C 6,240 197 208	405	64.90
11 Tatta T. C 9,635 73 59	132	13.70
Hyderabad District.		
12 Hyderabad T.C, 96,021 2,136 2,107	4,243	44.18
13 Hyderabad C. C 4,530 33 23	56	12.35
14 Hala T. C 7,304 66 44	110	15.06
15 Matiari T. C 6,692 46 31	77	11.50
Nawabshah District.	1	
16 Nawabshah T. C 7,023 17 13		4.27
17 Tando Adam , 13,469 137 74	30	

No. VI.

and Towns of Province of Sind during the Year 1936.

5	6	7	8	9	10	11	
				-		Injur	IES.
Cholera.	Small pox.	Plague.	Fevers.	Dysentery and Diarrhoea.	Respiratory Diseases,	Suic	ide.
				plannoea.		Male.	Female.
				8			
•••	26	***	1,530	49	1,125	2	***
8	23	***	3,337	79	1,330	1	•••
***	29	•••	4,002	2 2	490	1	***
>00	41.	***	3,301	31	1,139	•••	***
•••	31	•••	4,259	7	109	•••	•••
•••	41	***	2,74 3	24	237	2	1
•••	19	***	4,485	34	2 60	2	1
***	10		1,566	10	25	1	1
8	220	***	25 ,2 23	256	4,715	9	3
Security branchigeth security			The state of the s				
• •	54	4	446	686	3,226	2	•••
***	•••	0.00	37	7	16	•••	•••
***	2	•••	35	6	51	•••	***
007	. 5	300	300	145	1,193	5	3
000	***	•••	21	•••	3	•••	***
004	***	•••	36	***	16	•••	•••
•••	•••	•••	47	***	55	•••	•••
•••	1	•••	11	•••	8	001	df⊣
•••		•••	65	3.	59	***	0 0 0
,					1	1	

	· · · · · · · · · · · · · · · · · · ·										
1		2					11			12	13
No.	Distr	icts and T	Fowi	ns.		Wound- ing or Accident.	Snake- bite, or killed by wild beasts.	Rabies.	Total.	All other causes.	Total deaths from all causes.
	A	.—DISTR	ICT:	S.				•			L
1	Karachi	•••		***	•••	25	29	2	58	363	3,151
2	Hyderabad	•••		***	•••	47	30	2	80	452	5,309
3	Nawabshah	•••		•••	•••	63	37	2	103	320	4,966
4	Thar Parkar	• • •		•••	•••	40	38	1	79	516	5,107
5	Larkana	***		•••	•••	61	35	1	97	213	4,716
6	Dadu	•••		•••	• • •	65	18	•••	86	314	3,445
7	Sukkur	Q # 0		***	• • •	56	17		7 6	333	5,207
8	Upper Sind Frontier				•••	34	6	700	42	43	1,696
	,	Total of		Districts	•••	391	210	8	621	2,554	33,597
		ACHI DIST		3.							
9	 Karachi	•••	***	т. с.		103	•••		105	2,566	7,087
10	Karachi	• • •		C.C.	•••	•••	•••	• •	•••	65	125
11	Tatta	•••	•••	T. C.	• • •	1	•••	}	1	31	126
	Hyde	RABAD DIS	STRIC	CT,							
12	Hyderabad	•••	•••	T. C,	•••	56	2	***	66	1,110	2,819
13	Hyderabad	•••	•••	C. C.	•••	***	•••	***	***	7	31
14	Hala	***	•••	т. с.	•••	4 • 4	***	***	•••	8	60
15	Matiari	• • •	900	19	•••	3	1	,	4	27	133
	Nawa	BSHAN DI	STRI	CT.							
16	Nawabshah	***	•••	Т, С,	• •	•••	•••	•••	•••	6	26
17	Tando Adam	•••		23	• • •	3	•••		3	41	171
	1					4.		1			

RATIO OF DEATHS PER 1,000 POPULATION.

		1	1		I	1	1	1	1	
									From a	ll Causes.
Chol	lera.	Small- [Pox.	Plague.	Fevers.	Dysentery and Diarrhoea.	Respira- tory Diseases.	Injuries	All other causes.	For the year.	Mean of previous five years.
							•	,		1
	• • •	•08	***	4.91	·15	3 •5 5	•18	1.13	10· 0 0	10.02
	·01	'04	•••	6.09	•14	2.44	.15	.83	9.70	10·1I
•	••	.06	•••	8•40	·09	1.02	•21	· 65	10.43	10.72
e		•09	0.20	7:28	.07	2.50	•17	1.13	11.24	13:53
•	••	•08	***	10.43	*01	•27	·24	•52	11.55	12.48
• ·	• •	.13	•••	8.80	.08	·76	·27	1.01	11.05	11.60
8 (• •	'04	•••	9.59	•08	.55	.16	.71	11.13	1 4·8 3
••		04		6.40	.02	·10	•17	•18	6.94	9.87
•	002	•07	•••	7.81	•08	1.46	19	.79	10 40	11.78
**		•22	02	1.80	2.76	13.02	42	10.20	28.60	23.58
• •		884		5'88	1.12	2:59		10:36	20.03	16:02
4.0		•21	***	3.62	.62	5.30		3.22	13.10	10 02
	•							3 44	13 10	12 30
••		•05		3.12	1.21	12.44	.68	11.22	29.35	\
• •		8 4 9		4.63		.66		1.22	6.84	24.45
••		•••		4.93		2'19	•••	1.09	8.21	9.72
		1		7.01	***	8:22				
••		•••	• • •		•••	0 22	•59	4.04	19.86	14.19
••		14	***	1.57	•••	1'14	•••	·85	3.70	6.12
•••		. •••	•••	4.83	•22	4:39	·22	3.04	12.70	18.48
)	

1		2			3		4 Birt	hs.	
No,	Dis	tricts an	d Town,		Population according to Census of 1931.	Male.	Female.	Total.	Birth rate.
	В.—	rowns	.—contd.						
	Thar	PARKAR	DISTRICT.					٠	
18	Mirpurkhas	* * •	Т. С.	•••	10,178	65	42	107	10.21
19	Umarkote	•••	••• 19	•••	3,841	54	39	93	24.21
	La	RKANA I	ISTRICT.					·	1=
20	Larkana	•••	т. с.	0 • 0	26,841	551	48]	1,032	38.45
21	Kambar	•••	*** ** 39		9,717	105	88	193	19.86
22	Ratodero	***	*** 22	• • •	7,285	103	87	190	26.08
	I	DADU DI	STRICT.					4	
23	Dadu	•••	т. с.	•••	6,562	36	39	75	11.43
24	Kotri	•••	T.C.	•••	10,033	96	80	176	17.54
25	Sehwan	•••	т.с.	€≥e	5,795	45	26	71	12.25
	St	ik ku r D	ISTRICT.						
26	Sukkur	•••	Т. С.	•••	69,277	1,841	1,198	2,539	36.65
27	Shikarpur	•••	••• 9;	•••	62,595	1,177	1,066	2,243	35.88
28	Rohri	***	*** 33	•••	. 16,900	175	175	350	20.71
29	Garhi Yasin	•••	••• 19	***	7,370	111	100	211	18.63
	Upper Si	ND FROM	TIER DISTRIC	г.					
30	Jacobabad	•••	T.C.	***	15,748	127	66	193	12•25
			Total of Tov	vns	6,50,757	13,860	12,814	26,674	40.99
		,	Total of Provi	nce	38,76,388	44,175	35,361	79,536	20.52

No. VI.—concld.

		[1	1	(
5	6	7	8	9	10	Injurie	
Cholera.	Smallpox.	Plague.	Fevers.	Dysentery and	Respiratory Diseases.	Suicio	de.
				Diarrhoea.	Diseases.	Male.	Female.
		}				Maic.	гещате.
						,	
***	•••	•••	54	5	70	•••	***
•••	•••	•••	48	1	49	•••	•==
•••	•••	•••	127	17	139		•••
	• 4 4	•••	62	1	8	•••	•••
•••	•••		119	o • • •	1		1
			52	4	5		
:	2	~ •••	43	3	19	***	•••
•••	_			3		•••	• • •
•••	• •	•••	20	•••	14	•••	•••
					ĺ		
•••	* * *	***	197	134	332	•••	• • •
•••	2	•••	447	27	185	2	1
•••	٠		90	7	41	•••	• • •
•••	•••	•••	87	1	. 15		•••
•••	22	•••	112	•••	5		•••
		1		The second second			
•••	88	4	2,456	1,047	5, 510	9	5
					0,010		
8	308	4	27,679	1,303	10,225	18	8
					\	-	

1			2				11			12	13
		-					Injuries.	-contd.			
No.	Dist	rict a	and Town	S.		Wound- ing or Accident.	Snake bite, or killed by wild beasts.	Rabies.	Total.	All other causes.	Total deaths from all causes.
	B'	row	NS·—cont	d.							
			ar Distri								
18	Mirpurkhas	•••		т. с.	•••	2	•••	50€	2	30	161
19	Umarkote	•••	•••	11	•••	· •••	•••	•••	•••	12	110
	Lar	KANA	Distric	T.							
20	Larkana	•••	***	T. C.	•••	10	•••	•••	10	183	476
21	Kambar	•••	•••	21	* • 0	1	1	•••	2	6	7 9
22	Ratodero	•••	•••	17	•••	4	•••	•••	5	1	126
	_ D.	ADU	DISTRICT	•							
23	Dadu	•••	•••	т. с.	***	1	•••	•••	1	17	79
24	Kotri	•••	•••	,,	•••	•••	***	•••	** •	1 8	8 5
25	Sehwan	•••	•••	9.9	•••	000	•••	•••	***	7	41
	Su	KKUR	DISTRICT	•							
26	Sukkkur	•••	•••	т. с.	•••	30	1	•••	31	292	986
27	Shikarpur	***	•••	29	•••	14	2	•••	19	982	1,662
2 8	Rohri	•••	***	,	• • •	1	•••	•••	1	23	162
29	Garhi Yasin	•••	•••	,,	•••	2	•••	•••	2	24	129
	UPPER SIN	ND F	RONTIER D	ISTRICT.							
30	Jacobabad	•••	•••	T. C.	•••	***	•••	•••	•••	15	154
			Total o	f Towns	•••	231	7		252	5,471	14,828
			Total of]	P r ovin c e	•••	622	217	8	873	8,025	48,425

14
RATIO OF DEATHS PER 1,000 OF POPULATION.

								From al	l Causes.
Cholera.	Small- Pox.	Plague. Fevers.		Dysentery and Diarrhoea.	Respira- tory Diseases.	Injuries	All other causes.	For the year.	Mean of previous five years.
					•			*	
***	•••	•••	5*3 0	•51	6 ·87	·20	2.94	15.82	11.90
***	•••	•••	12 ·50	*26	12 • 7 6	***	3•12	28:64	23·1 6
***	•••	•••	4 ·72	'63	5.21	·37	6.80	17:73	20 ·01
***	•••		6.3 8	1 0	•82	. 20	*62	8.12	16:15
***	•••	***	16.33	• • •	•14	•69	·14	17.30	20 31
***	•••	***	8.0 8	•61	.77	•15	2:43	42.04	1.82
***	20	• • •	4.29	·2 9	1'90	•••	1.79	8.47	10:56
•••	•••	•••	3*45	,	2.41	•••	1.21	7.07	8.11
						,			
•••	• • •	***	2'96	1.93	4.68	•45	4.21	14.23	13 '45
•••	•03	•••	7'35	•43	2.77	.30	15.70	26.58	24 ·67
•••	•••	•••	5.33	.41	2•42	•06	1.36	9.28	13.31
•••	•••	•••	11:80	•14	2.03	•27	3·2 6	17.50	23 *88
•••	1'40	•••	7 ·12	• • •	.30	•••	.95	9:77	9.01
•••	•14	.001	3.77	1.61	8*46	.39	8:41	22:78	20:16
.0002	'07	.0001	7:14	*34	2*64	•23	2.07	12:49	13:19

Annual Form

Deaths registered from certain diseases in the Districts

No. Districts and Towns. Senteric Fever. Measles. Cerebro-spiral Fever.									
No. Districts and Towns.	1	2		3			4		5
A.—DISTRICTS.		,		Ente	eri c er.	Mea	sle s.	Cere spi Fe	bro- nal ver.
1 Karaohi 5 '02 5 '02 1 '003 2 Hyderabad 3 Nawabshah	No.		'owns.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
3 Hyderabad 23 '04 10 '02 3 Nawabshah 16 '03 36 '03 4 Thar Parkar 20 '05 14 '03 5 Larkana 20 '05 9 '02 6 Dadu 34 '11 9 '03 7 Sukkur 4 '02 3 '01 8 Upper Sind Fronticr 4 '02 3 '01 8 B.—TOWNS. KARACHI DISTRICT.		A.—DISTRIC	TS.						
3 Nawabshah 16 '03 36 '03 4 Thar Parkar 20 '05 14 '03 5 Larkana 20 '05 9 '02 6 Dadu 20 '05 9 '02 7 Sukkur 15 '03 26 '06 8 Upper Sind Frontier 4 '02 3 '01 8 Larkana 137 '04 212 '03 1 '0003 8 Upper Sind Frontier 4 '02 3 '01 <t< td=""><td>1</td><td>Karachi</td><td>***</td><td> 5</td><td>*02</td><td>5</td><td>·02</td><td>1</td><td>'003</td></t<>	1	Karachi	***	5	*02	5	·0 2	1	' 00 3
4 Thar Parkar 20 '05 '14 '03 5 Larkana 20 '05 9 '02 6 Dadu 34 '11 9 '03 7 Sukkur 15 '03 26 '06 8 Upper Sind Frontier 4 '02 3 '01 8 Larkana 137 '04 112 '03 8 Upper Sind Frontier 137 '04 112 '03 1 '0003 B.—TOWNS, KARACHI DISTRICT. </td <td>2</td> <td>Hyderabad</td> <td>•••</td> <td>. 23</td> <td>·04</td> <td>10</td> <td>.02</td> <td>•••</td> <td>•••</td>	2	Hyderabad	•••	. 23	·04	10	.02	•••	•••
4 Thar Parkar 20 '05 14 '03 5 Larkana 20 '05 9 '02 6 Dadu 34 '11 9 '03 7 Sukkur 15 '03 26 '06 8 Upper Sind Frontier 4 '02 3 '01 8 Loper Sind Frontier 4 '02 3 '01 8 Loper Sind Frontier 4 '02 3 '01 9 Karachi T. C. 40 '16 224 '90 3 '01 10 Karachi <td>3</td> <td>Nawabshah</td> <td>•••</td> <td>. 16</td> <td>.03</td> <td>36</td> <td>•03</td> <td>•••</td> <td>•••</td>	3	Nawabshah	•••	. 16	.03	36	•03	•••	•••
6 Dadu 34 '11 9 '03 7 Sukkur 15 '03 26 '06 8 Upper Sind Frontier 4 '02 3 '01 8 Logo Frontier 137 '04 112 '03 1 '0003 B.—TOWNS. Karachi T.C. 40 '16 224 '90 3 '01 10 Karachi T.C.	4	Thar Parkar	•••	20	•05	· '	.03		•••
7 Sukkur	5	Larkana	•••	. 20	•05	9	·02		•••
Solidar	6	Dadu		. 34	.11	9	•03	•••	• • •
Total of the Districts 137	7	Sukkur	•••	. 15	.03	26	•06		•••
B.—TOWNS. KARACHI DISTRICT. 9 Karachi T. C 40 '16 224 '90 3 '01 10 Karachi T. C 3 '31 HYDERABAD DISTRICT. 12 Hyderabad T. C 81 '84 81 '84 2 '02 13 Hyderabad T. C	8	Upper Sind Frontier		. 4	*02	3	·01	• • •	+**
KARACHI DISTRICT. 40 16 224 '90 3 '01		,		137	•04	112	.03	1	.0003
10 Karachi C. C									
10 Karachi C, C,	9	Karachi	т. с	. 40	•16	224	*90	3	·01
11 Tatta T. C. 3 '31	10		C, C.	•••	•••	•••		•••	•••
12 Hyderabad T. C. 81 '84 81 '84 2 '02 13 Hyderabad	11	Tatta	т. с	. 3	•31	•••	1	•••	•••
13 Hyderabad C. C		Hyderabad Dis	TRICT.						
14 Hala T. C	12	Hyderabad	т. с	. 81	*84	81	*84	2	•02
15 Matiari 1 14 1 14 Nawarshah District. 16 Nawabshah T. C 1 14 2 28	13	Hyderabad	· C. C	•	•••	000	•••	. • ;	•••
Nawarshah District. 16 Nawabshah T. C 1 14 2 '28	14	Hala	T. C	•••	•••	096	•••	•••	•••
Nawapshah District. 16 Nawabshah T. C 1 '14 2 '28	15	Matiari	*** \$9 **	. 1	14		•••	1	.14
10 Nawaushan 1, C 1		Nawagshah D	ISTRICT.						
17 Tando Adam 8 '60	16	Nawabshah	т. с.	. 1	14	•••	•••	2	'28
	17	Tando Adam	31	. 8	•60		•••	•••	•••

No. VI (a).

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

	6		7			8		9		10		11		12
M	alar	ia.	Other Fe	evers.	Influ	ienza.	Dip	theria.	Ту	phus.	Can	cer.	Wh	ough.
Deaths.		Ratio.	Deaths.	Ratio.	Deaths,	Ratio.	Deaths,	Ratio.	Deaths.	Ratio,	Deaths.	Ratio,	Deaths.	Ratio.
6	222	•70	1,297	4.17	700		1	.003	•••	***		• • •		•••
	76	•14	3,228	5•89		•••	•••	***			104			
	47	•09	3,903	8.20	•••	0 • 0	4	•001	•••	•••	•••	•••	•••	•••
1	124	•27	3,143	6.93	* * *	***	1	.002		•••	•••			•••
	72	•18	4,158	10'18	***	•••	1	.003	•••	•••		***	• • •	***
1	136	•44	2,563	8.22	1	.003	1	.003		* * *	Mus		•••	•••
	92	.20	4,352	9.30	400	000	•••	,	• ^ •	•••	***		•••	***
	39	•16	Y, 520	6.21	***	000	• • •	- • •	• • •	•••	• • •		•••	•••
8	808	•25	24,164	7:49	1	.0063	8	.003	• • •	• • •	•••	•••		
							Application of the state of the					[
	2 6	•11	151	•61	2	*01	23	•09	•••	•••	22	•09	4	•02
	1	•16	36	5'72	***	* * *	•••		•••		•••	•••	•••	•••
	16	1.67	16	1.67	•••	• • •	•••	•••	• • •	•••	•••	•••	•••	•••
								,						
1	10	1.15	26	•27	• • •	•••	7	-07	•••	•••	12	•13	3	•03
	1	•22	20	4.41	• • •		•••	***			•••		***	•••
1	7	•96	29	3.97	* a *	***	•••	•••		• • •	•••	•••	• • •	***
	3	•45	42	6.28	•••	***	•••		e w 0	***	•••	•••	•••	•••
									İ					
	2	.28	6	·85	***	•••	2	*28	***	•••		•••	• • •	•••
1	10]	·75	47	3.48	•••	a a o	1 !	•07	•••		•••	•••		•••

1	-	2				13	1	4		15	16	
- 11						cken-	Pne			nisis.	Other 1	Respi-
			٠		P	ox.	moi	nia.	1 1111	,	Disea	ises.
No.	Distri	cts and To	wns.		•	2	ű		ý		ဟို	
						Ratio,	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
	A.	-DISTRI	CTS.)				
1	Karachi	•••	•••	•••			947	2.98	83	•26	95	*31
2	Hyderabad	•••	***	•••	1	.001	1,007	1.84	117	•22	206	•38
3	Nawabshah	***	***	• • •		•••	362	•76	61	•12	67	•14
4	Thar P a rkar	•••	•	0 • 4			908	2.00	65	14	166	•36
5	Larkana						45	·11	33	.08	31	.08
6		•••	•••	•••	•••	/*		•40	60	19		•
	Dadu	•••	•••	•••	***	•••	125				52	*17
7	Sukkur	•••	• • •	•••	•••	***	126	•27	58	']2	7 6	•16
8	Upper Sind Fro	ntier	•••	•••	•••	••,	14	.06	8	03	3	•01
		Total of	the Districts	•••	1	.0003	3,534	1.09	485	·1 5	696	·22
		B.—TOWN							*			
	KAI	ra c hi Dist	RICT.									
9	Karachi	•••	т. с.	•••	• • •	***	1,752	7.07	597	2.41	873	3.25
10	Karachi	***	C. C.	•••	•••	•••	15	2.43	•••	•••	1	•16
11	Tatta	•••	Т. С.	•••	•••	•••	44	4'57	5	52	2	•21
	Hydr	ERABAD DIS	STRICT.									
12	Hyderabad	***	т. с.	•••	•••	•••	871	9.07	226	2:38	93	•96
13	Hyderabad	•••	C. C.	•••	•••	***	3	. 66	• • •	0 + D	•••	•••
14	Hala	•••	T.C.	•••	•••	•••	13	1.78	3	•41		•••
15	Matiari	•••	T. C.	•••	•••	•••	41	6.13	14	2'09	,	
	Nawa	авsнан Dis	STRICT.									
16	Nawabsh a h	.000	T. C.	•••	•••	** 1	5	.71	3	.43	• •	000
17	Tando Adam	***	,,	•••	•••	• • •	40	2.97	9	.67	10	•75

No VI (a).—contd.

-			(1	1				
	17			18	19		20		21	22
	Dyser	ntery.	Dia	rrhœa.	Deaths	Dea	ths under 1	l year.	Infant mor-	
	Deaths.	Ratio.	Deaths.	Ratio.	from child- birth.	Male,	Female,	Total.	tality rate per 1,000 births.	No.
	27	*08	22	•07	44	236	215	451	134•51	1
	39	•07	40	•07	137	380	294	674	112.53	2
	6	.01	16	.08	136	402	352	754	102.06	3
	7	*02	24	.05	92	376	363	739	93•42	4
	1	·00 2	6	'01	85	416	356	772	* 83 ·3 3	5
	2	- •01	22	.07	89	324	249	573	92*80	6
	7	.02	27	*06	125	529	464	993	108:87	7
	4	*02	6	•03	21	128	140	268	73.20	8
ja-m	93	•02	163	•05	729	2,791	2,433	5,224	98.82	1
44										19
	100	. 4 84	~ 00	0.00						
	120	*45	566	2.28	79	1,294	1,034	2,328	167.04	. 9
	6	·96	1	. 16	***	19	16	35	86'42	10
	3	*31	3	*31	2	8	13	21	159.09	: 11
	~ .		0.4							
	51	*53	94	-98	17	431	410	841	198-21	12
	• • •	•••	• • •	4 0 0	•••	4	* * *	4	71.43	13
	•••	***	• • •	•••	3	10	3	13	118•18	14
	•••	* * *	**4	0 0 0	5	4	4.	8	103.90	15
		•••	•••	•••	***	2	$\begin{bmatrix} 2 & \\ & \end{bmatrix}$	4	133•33	16
	2	·15	1	•07	10	12	8	20	94.80	17
										-

1		2				3 Enteri Fever		4 Measl	es,	5 Cereb spina Feve	.1
No.	Dist	rict and	Cowns.			Deaths.	Ratio.	Deaths,	Ratio,	Deaths,	Ratio.
						De	Ra	De la	R	A	Ä
	В.—7	rowns	-contd.			5.0					
	Тнаг	Parkar	Distric	r.							
18	Mirpurkhas	•••	Т	. C.	•••	3	•29	2	•20	1	10
19	Umarkot	•••	•••	33	•••	3	· 7 8	•••	•••	•••	• • •
	La	RKANA DIS	STRICT.								
20	Larkana	•••	7	C.	140	35	1.30	10	*37	•••	
21	Kambar	800		"	•••	0 • •		1	•10	•••	•••
23	Ratodero	•••		39	. 4 .	•••	000	£ 0 0	***	•••	***
]	Dadu Disa	TRICT.			•					
23	Dadu	•••	•••	T, C.	• • •	***	004	4	•61	•••	•••
24	Kotri	•••	# Q d	**		4	'40	900	• • •	•••	•••
25	Sehwan	•••	•••	93	4	2	*34	•••	• • •	•••	400
	S	UKKUR DI									
26	Sukkur	•••	•••	T. C.	•••	38	'5 5	•••	***	• • •	•••
27	Shikarpur	401	•••	91	• • •	57	•91	46	•74	1	*02
28	Rohri	•••	• • •	9 7	• • •		***	•••	•1.4	•••	• • •
29	Garhi Yasin	• • •		"	. 7 4	2	27	1	14	•••	• • •
		SIND FRON				1	•06		0		
30	Jacobabad	• • •	•••	T. C.	•••	1	06	•••	• • •	•••	• • •
			Total of	f Towr	ns	279	•43	369	•57	10	•02
		Total	of the	Provinc	ce	416	•11	481	•12	11	•003

No. VI (a).—contd.

	7		8		9		10		1:	1	1:	2	1	3
	Malaria	•	Other Fe	vers.	Influe	enza.	Dipth	eria,	Typ feve	hus er.	Can	cer.	Who	oping ig h.
	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
	5	•49	42	4.12	• • •	» d	* * *	***	1	•10	***	•••	• • •	•••
	4	1.04	41	10.68	***	• • •	0 0 0	• a fi	.• • •	0 • 0		•••	• • •	
	69	2.57	13	•48	494	• • •	1	.03		• • •	1	•03	• • •	***
	y 9 0	• • •	61	6.28	• • •	• •	• • •		* 0 *	at +	* * *		•••	^ * *
	0 0 0	***	119	16.33	•••		• • •	* * *		• • •		•••	0.0%	• • •
							-					-		
	2	' 31	46	7.01	a • •	4 4	1	•15	•••	• • •	•••	• • •		•••
	32	3.19	7	•70	4 0 0	***	• • •			100	• • •	• • •	• • •	•••
	2	•34	16	2.76	g • •		• • •	•••	•••	•••	• • •		• • •	•••
				1.05				•					4	•00
	86	1.24	73	1.05	0 • •	0 0 0		• •	••	• • •	•••	•••	4	.06 .06
	340	5.33	3	*05	• • •			• • •		0 0 0		• • •		
	90	1.76	71	9.63		4 0 0	•••	000		۵۰۰	. • •	» •	• •	***
	10	170	/1	3 00	000	•••	0 0 0				* * *		• • •	•••
	***	• • •	110	7.00	1	°06	a =+		***	0 0	•••	•••	, 0 < 0	•••
,	819	1.26	975	1.20	3	.005	35	*05	1	•0001	3 5	•05	15	*02
	1,627	•42	25,139	6•48	4	.001	43	•01	1	.0002	35	.009	15	*004

	*							1					
1		2					13		14		15	1	6
							icken- Pox.		neu- onia.	Pht	hisis.	rate	Respi- ory. ases.
No.	Dis	tricts and	Town	S.							1		
						Deaths.	Ratio.	Deaths.	Ratio.	Deaths,	Ratio.	Deaths.	Ratio.
	T	owns,-	contd.										
	Тна	ar Parkar	Distr	ICT.									
18	Mirpurkhas	•••	•••	T. C.	•••			59	5.80	9	*87	2	•20
1 9	Umarkot	•••	• • •	,,		•••		40	10.42	9	2:34	***	•••
	· La	.rkana§Di	STRICT	•									
20	Larkana	***	•••	т. с.		•••		79	2*98	24	*89	36	1:34
21	Kambar	• • •	•••	13	•••	•••	4 0 4	6	*62	2	20	•••	***
22	Ratodero		"	• • •	•••	•••	•••	•••	1	•14		•••	
	I	Dadu Dist	RICT.										
23	Dadu							2	•31	1	·15	2	. 31
24	Kotri	•••	•••	3	• • •	•••	.,	12	1.20	7	.70	ଜ ଧ୍ୟ କ	•••
25	Sehwan	***	•••	,,	•••	•••	•••	10	1.72	4	•69	•••	• • •
	St	JKKUR DIS	STRICT.										
26	Sukkur	•••	•••	T. C.	•••	•••	• • •	128	1.85	52	33 ·75	148	2.14
27	Shikarpur	0 0 0	***	23	•••	•••		35	•56	111	1.78	35	•56
28	Rohri	•••		"	•••		•••	22	1.30	9	•53	10	•59
29	Garhi Yasin	•••	•••	3	. • • •	***	***	4	•54	10	1.35	1	•14
	Upper Si	ND FRONT	ier Di	STRICT.									
30	Jacobabad T. C.					•••	•••	2	·12	3	•18	•••	
		•••		,	0.100	4.00	7.000	1.00	7 670	7.00			
	Total of Towns							3,183	4'89	1,099	1.68	1,213	1.86
έρ		Total	of the I	Province		1	·0002	6,717	1.73	1,584	•31	1,909	•39

No. VI (a)—concld.

1	7	[18	19	*	20		21	22
Dyser	ntery.	Dia	rrhoea.		Deat	hs under 1	year.	•	
Deaths.	Ratio.	Deaths,	Ratio,	Deaths from child-birth	Male.	Female.	Total.	Infant mortality rate. per 1000 births,	No.
4	•41	1	•10	12	7	8	15	140.19	18
	000	1	. 26	8	7	3	10	107.52	19
10	*37	7	*26	31	66	61	127	123.06	20
1	•10	•••	0 4 4	5	7	4	11	56.99	21
	•••	•••	•••	1	14	9	23	121.05	22
. 1	•15	3	*46	5	10	15	25	333*33	23
2	•20	1	•09	6	9	15	24	136.36	24
•••	•••	000		2	3	1	4	56*34	25
21	30	113	1.63	33	166	108	274	107:91	26
14	•22	13	•21	56	290	239	529	235.85	27
•••	• • 4	7	•41	8	30	15	45	128.57	28
***	000	1	•14	7	14	11	25	118:48	29
• • •	•••	Anglicing continued and design and the		4.	29	10	39	2 0 2·07	30
235	•36	812	1.25	294	2,436	1,989	4,425	165.81	
328	.08	975	•25	1,023	5,227	4,422	9,649	121:31	

ANNUAL FORM
Deaths registered from Cholera in the Districts

						1 -					
1	•2		3		4			,		1	,
		Ci _i Regi	ccles of stration.	Vil	lages.						
No.	Districts.	Number in each district.	Number from which deaths from Cholera were reported.	Number in each district.	Number from which deaths from Cholera were reported.	January.	February.	March.	April.	May.	June.
1	Karachi	. 12		1,041	•••	•••	•••	900	••	***	•••
2	Hyderabad	. 11	1	870	1	•••	•••	•••	•••	•••	•••
3	Nawabshah .	. 9	•••	734	•••	•••	***	• • •	•••	•••	•••
4	Thar Parkar .	. 13	***	948	•••		•••	•••	• • •	* * *	* • 5
5	Larkana	. 10	• • •	2,118	•••	***	***	***		•••	•••
6	Dadu	. 10	***	1,047	•••	•••	•••	•••	•••	* 4 4	•••
7	Sukkur	. 12	***	6 85	•••	•••	•••	•••	•••	•••	•••
8	Upper Sind Frontier.	6	• • •	1,652	•••		• • •	,,,	•••	•••	•••
	Total of the Province	. 83	1	9,095	1	•••	•••		•••	•••	

No. VII.

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

5							6			7		8	9
							Total.		Ratio 1,000	o of death of Popula	ns per ation.	of pre-	
July.	August	September.	October.	November,	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of previous five years.	No.
•••		f • • •	•••		•••	000	•••	***		•••	•••	•••	1
6	2	•••	. • •	• • •	•••	3	5	8	.008	•02	•01	·0 0 04	2
* * *	• • •	**1	e • • •	• • •			v • •		0 0 0	• • •	•••	.002	3
		•••	•••		•••	• • •	•••	•••	•••	••2	• • •	•••	4 °
***		•••		•••		•••	0 • •	•••	•••	***	• • •	*01	5
***	• • •	*.*	• • •	•••		. • •	•••		• • •	•••	• • •	• • •	6
* * *	a 4 0	***	• • •		•••	o 4 •	•••				• • •	*002	7
* * *	• • •	a • •	***	,00	***	•••	A a	w d ds	• • •	•••	•••	•••	8
6	2		0 0 0		•••	3	5	8	•001	.003	.002	.0006	

ANNUAL FORM

Deaths registered from Small-pox in the Districts of the

1	2		3		4,						
	•	Cin Regi	cles of istration.	Vil	lages.						
No.	Districts.	in each	om which om Small- reported.	in each	om which om Small- reported.		4				
	-	Number District.	Number from which deaths from Small-pox were reported.	Number District.	Number from which dealths from Small-pox were reported.	January.	February.	March.	April.	May.	June.
1	Karachi	12	5	1,041	9	3	25	11	22	8	1
2	Hyderabad	11	6	870	9	12	5	1	1	7	1
3	Nawabshah	9	5	734	10	3	2	10	7	2	•••
4	Thar Parkar	13	7	948	19	2	1	7	4	12	4
5	Larkana	10	3	2,118	. 12	2	•••	6	1	1	6
6	Dadu	10	6	1,047	13	13	7	2	3	• • •	***
7	Sukkur	12	5	685	5	3	• • •	3	10	2	2
8	Upper Sind Frontier	6	4	1,652	•••	J 0 0	•••	•••	***	3	2
	Total for the Province	; 83	41	9,095	77	35	40	40	48	35	16

No. VIII.

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

5							6			7		8		9	10
		- Principle of the control of the co					Total.		these	ber of Deaths long	To D	otal rat Deaths 1,000 depulati	io of per of ion.	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.
4	1				7	48	34	09	0	0,5	.14				
•			•••	**-				82	8	2 5	14	.14	•14	*26	1
]	•••	•••	0 0 4	* * *	* • •	16	12	28	5	14	•04	•04	•04	•03	2
2	3	1	•••		> 4	16	14	30	2	16	.07	.08	•06	•25	3
4	•••	5		0 2 0	2	26	15	11	3	17	•10	•07	.09	.17	4
6	2	7	•••	•••	***	23	8	31	7	17	•09	·04	*07	'1 9	,5
***	E C P	• • •	5	2	11	23	20	43.	10	14	•12	•14	'13	-17	6
2	000		1	***	1	10	11	21	3	10	•03	.04	.03	•14	7
•••	2	1	3	8	13	14	18	32	3	20	•10	•11	·12	•03	8
19	8	14	9	10	34	176	132	308	46	13 3	.07	.07	•07	•22	٠

Deaths registered from Fevers in the Districts of the

			1		.)						
1	2		3	4			,	1)	
		Circ Regis	les of tration.	Vill	ages.					7	
		each	which	each	which			-			
No.	Districts.	ii	from from ported	in	from from sported.		y.				
		Number District.	Number from deaths from were reported	Number District.	Number from deaths from were reported	January.	February.	March.	April.	May.	June.
,											7.00
1	Karachi	12	12	1,041	572	216	272	196	166	215	12 9
2	Hyderabad	11	11	870	870	457	447	465	3 50	295	234
3	Nawabshah	9	9	734	734	547	50 6	471	3 83	3 6 2	244
4	Thar Parkar	13	13	948	948	313	401	393	380	313	236
5	Larkana	10	10	2,118	973	538	507	504	438	322	246
6	Dadu	10	10	1,047	825	375	254	344	2 62	260	147
7	Sukkur	12	12	685	685	677	506	524	385	359	362
8	Upper Sind Frontier.	6	6	1,652	² 5 2 9	179	138	173	131	117	87
	Total for the Province	83	83	9,095	6,136	3,302	3,031	3,070	2,495	2,243	1,685

No. IX.

Province of Sind during each month of the year 1936.

5							6	,		7		8	9
							Total.		Ratio 1,000	of deaths	s per	1,000 of	
July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,0 previous five years.	No.
124	132	108	122	215	1.53	1,082	9 6 6	2,048	3.29	3*85	3.23	4.52	1
216	231	223	253	260	310	2,211	1,530	3,741	5.96	5.26	5.64	6*83	2
190	219	221	244	330	361	2,392	1,686	4,078	8.57	7.75	8.50	8.68	3
213	214	191	271	2 40	238	1,967	1,436	3,403	7.51	6.97	7.05	9.32	4
299	270	3 06	388	424	325	2,502	2,065	4.567	10.00	12.01	10.09	11.12	5
160	183	172	215	231	255	1,639	1,219	2,858	8:76	8.58	8.24	8.99	6
307	385	328	417	569	487	2,966	2,340	5,306	8.49	8.23	8.24	11.70	7
104	111	126	182	192	138	921	757	1,678	6:33	6.29	- 6.44	8.95	8
1,613	1,745	1,675	2,092	2,461	2,267	15,680	11,999	27,679	7.22	7:04	7.14	8.63	

Annual Form

Deaths registered from Dysentery and Diarrhoea in the Districts

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

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

5							6			7		8	9
							Total.		Ratio 1,000	o of death of Popul	as per ation.	Jo 00	
July.	August.	September.	October,	November.	December	Male.	Female.	Total.	е.	Female.	Total.	Mean ratio per 1,000 previous five years.	No.
68	91	82	65	5 6	51	396	352	748	1.20	1:40	1.29	.91	1
26	35	32	17	10	14	125	99	224	`34	`35	•34	.19	2
3	2	3	1	2	3	15	10	25	.05	.05	*95	*0 5	3
' 2	7	7	3	5	4	20	17	37	•08	-08	•07	.05	4
4	2	2	2	4	2	. 13	12	25	.05	•06	•06	•03	5
2	1	2	2	5	4	19	12	31	.10	*08	.09	.04	6
8	18	16	20	21	22	119	84	203	•34	*31	*3 3	.18	7
1		• • •	***	4	1	4	6	10	°03	.05	*04	.02	8
114	156	144	110	107	101	711	592	1,303	•33	.34	•34	•23	

104

ANNUAL FORM
Deaths registered from Respiratory diseases in Districts

1	2			3	*	4						5
		-	Circ Regis	les of tration,	Vill	ages.					1	
No.	• Districts.		Number in each District.	Number from which deaths from Respiratory diseases were reported,	Number in each District.	Number from which deaths from Respiratory diseases were reported.	January.	February.	March.	April.	May.	June,
1	Karachi		12	12	1,041	41 1	601	607	687	424	337	274
2	Hyderabad		11	11	870	419	365	526	408	221	180	144
3	Nawabshah		9	.9	734	734	107	109	126	42	26	12
4	Thar Parkar		13	13	948	448	205	290	226	130	62	42
5	Larkana "		10	10	2,118	63	45	29	39	15	10	8
6	Dadu	•••	10	10	1,047	68	50	35	47	27	17	8
7	Sukkur		12	10	685	114	119	147	88	70	53	42
8	Upper Sind Frontier	***	б	4	1,652	20	1	4	5	4	5	•••
	Total of the Province	• • •	83	79	9,095	2,277	1,493	1,747	1,626	933	690	530

105.

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

							6			7		8	9
				SP.			Total.		Ratio o	f deaths p Populati	per 1,000 on,	previous	
July.	August.	September,	October.	November.	December.	Male,	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of five years.	No.
213	220	229	207	300	319	2,460	1,958	4,418	7.48	7 '81	7.63	5.42	1
88	113	94	105	130	223	1,522	1,075	2,597	4.10	3.69	3.91	2.26	2
9	14	10	21	39	42	356	201	557	1.28	•92	1.11	•90	3
22	35	31	48	56	111	802	456	1,258	3'06	2:21	2.69	2.44	4
10	15	7	20	30	29	170	87	257	' 67	•43	•57	' 40	5
8	10	16	14	22	21	165	110	275	•88	*75	*83	·87	6
26	51	40	49	64	84	515	318	833	1.47	1.16	1.30	1.14	7
•••	1	2,	2,	3	3	17	13	30	•12	.11	•12	*32	8
376	459	429	466	644	832	6,007	4,218	10,225	2:77	2:47	2:64	1.98	
											1		

106

ANNUAL FORM
Deaths registered from Plague in the Districts of the

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

No. XII.

Province of Sind during each month of the year 1936.

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

APPENDIX
STATEMENT
Showing the Particulars of Vaccination

No.							8)			
Rarachi	No.	. •••• •••	Ci	rcles and D	istricts.	1			District according to census of	population per square	number of Vaccinators employed throughout
Do.	1			2					3	4	5
Do. R. C. 46,748 1 1 1 1 1 1 1 1 1	1	Karachi	•••	•••		•••	т. с.	•••	2,54,031	•••	6
4 Tatta 41,020 1 5 Do. T. C. 9,635 1 6 Mirpur Sacro 37,976 1 8 Sujawal 37,946 1 9 Jati 34,651 1 10 Shah Bunder 42,826 11 Mirpur Bathoro 42,826 12 Hyderabad 42,826 12 Hyderabad 96,021 13 Do. 14 Do.	2	Do,	•••	• • •	• • •	•••	C. C.		***	•••	1
5 Do. T. C. 9,635 1 6 Mirpur Sacro 34,356 1 7 Ghorabari 37,976 1 8 Sujawal 37,946 1 9 Jati 34,651 1 10 Shah Bunder 39,590 1 11 Mirpur Bathoro 42,826 1 11 Mirpur Bathoro 42,826 1 12 Hyderabad 15 13 Do. <	3	Do.	• • •	•••	***	•••	R, C.	• • .	46,748	•••	1
5 Do. T. C. 9,635 1 6 Mirpur Sacro 34,356 1 7 Ghorabari 37,976 1 8 Sujawal 37,976 1 9 Jati 34,651 1 10 Shah Bunder 39,590 1 11 Mirpur Bathoro 42,826 1 12 Hyderabad	4	Tatta	•••	•••	•••	•••	,,	•••	41,020	• • •	
Total Company Total Compan	5			•••	•••	•••			9,635	•••	1 }
7 Ghorabari <				•		•••	R. C.		34,356		1
8 Sujawal 37,946 1 9 Jati 34,651 1 10 Shah Bunder 39,890 1 11 Mirpur Bathoro 42,826 1 12 Hyderabad 42,826 1 12 Hyderabad 42,530 13 Do. <							.,	•••			1
9 Jati											
10 Shah Bunder 39,890 1 Mirpur Bathoro 42,826 1 Karachi District Total 5,79,079 15 Hyderabad											
Mirpur Bathoro											
Hyderabad											
12 Hyderabad T. C. 96,021 1 13 Do. C, C 4,530 1 14 Do. R. C. 79,096 1 15 Tando Bago 67,998 1 16 Badin 89,280 2 17 Dero Mohabat 46,638 1 18 Tando Allahyar 61,320 1 19 Hala 1,13,496 2 20 Guni 1,04,545 2 Hyderabad District Total 80,814 1 21 Shahdadpur 80,8	11	Mitput Dathoro	• • •	•••	•••	***	,,				
Do.					Karao	chi Distr	ict Tota	1	5,79,079	•	15
Do.								e e			
14 Do. R. C. 79,096 1 15 Tando Bago 67,998 1 16 Badin 2 17 Dero Mohabat <	12	Hyderabad	•••	•••	4**	•••	T. C.	•••	96,021	***	1
14 Do. R. C. 79,096 1 15 Tando Bago 67,998 1 16 Badin 2 17 Dero Mohabat <	13		•••	• • •	•••	•••	C, C	•••	4,530	• • •	1
15 Tando Bago		Do.	•••	•••	•••	•••	R. C.	•••	79,096	•••	1
16 Badin			•••	•••		010	11	•••	67,998	•••	1
17 Dero Mohabat			***			•••				•••	2
18 Tando Allahyar 1 19 Hala <						•••					
19 Hala											1
20 Guni 1,04,545 2 Hyderabad District Total 6,62,924 12 21 Shahdadpur R. C. 1,03,217 2 22 Kandiaro 80,814 1 23 Naushahro Feroze 86,068 2 24 Sakrand 62,476 1 25 Moro 59,563 1 26 Nawabshah <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Hyderabad District Total 6,62,924 12 Shahdadpur R. C 1,03,217 2 Kandiaro 80,814 1 Naushahro Feroze 86,068 2 Sakrand 62,476 1 Moro											
21 Shahdadpur R. C 1,03,217 2 22 Kandiaro 80,814 1 23 Naushahro Feroze 86,068 2 24 Sakrand 62,476 1 25 Moro	40	dull ²		•••	•••		,,	•••			
22 Kandiaro 1 23 Naushahro Feroze 2 24 Sakrand 62,476 1 25 Moro 59,563 1 26 Nawabshah <t< td=""><td></td><td></td><td></td><td></td><td>Hyderab</td><td>ad Dist</td><td>rict Tota</td><td>ıl</td><td>6,62,924</td><td>***</td><td>12</td></t<>					Hyderab	ad Dist	rict Tota	ıl	6,62,924	***	12
22 Kandiaro 1 23 Naushahro Feroze 2 24 Sakrand 62,476 1 25 Moro 59,563 1 26 Nawabshah <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
22 Kandiaro 1 23 Naushahro Feroze 2 24 Sakrand 62,476 1 25 Moro 59,563 1 26 Nawabshah <t< td=""><td>21</td><td>Shahdadpur</td><td>•••</td><td>***</td><td>•••</td><td>***</td><td>R. C.</td><td></td><td>1,03,217</td><td></td><td>2</td></t<>	21	Shahdadpur	•••	***	•••	***	R. C.		1,03,217		2
23 Naushahro Feroze 2 24 Sakrand 62,476 1 25 Moro 59,563 1 26 Nawabshah 1 27 Sinjhoro <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td></t<>										1	
24 Sakrand 62,476 1 25 Moro 59,563 1 26 Nawabshah 1 27 Sinjhoro											
25 Moro 59,563 1 26 Nawabshah 1 27 Sinjhoro										1	
26 Nawabshah 56,270 1 27 Sinjhoro											
27 Sinjhoro											
Nawabshah District Total 4,96,612 9	4/	Sillinoio	•••	***	•••	•••	•	•••	10,402		
					Nawabsh	nah Dist	rict Tota	ıl	4,96,612	•••	9

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

		0	<i>J</i> ,	J • J I ·					
						Pri	mary Vacci	ination.	
		umber of per vaccinated.	rsons	Average number of persons vaccinated			Successfi	ul.	
	Male.	Female.	Total.	by each Vaccinator	Total.	Under one year,	One and under six years.	Total of all ages.	Unknown.
	6	7	8	9	10	11	12	13	14
{P. {R.	7,492	7,185	14,677	6,092	14,720	8,743	3,250	13,020	1,567
ςP.	14,980 37	6,896	21,876 73	225	7 3	28	31	65	•••
{ R. { P.	149 608	553	1,161	1,214	1,161	359	706	1,115	46
{ R. { P	38 537	15 456	53 993)	993	361	549	964	26
{R. {P. {R.	44 114	22 82	66 1 96	1,286	197	64	80	177	11
{P. {R.	26 300	314	31 614	705	614	317	248	577	37
P. R.	68 489	23 195	91 684	688	_ 684	121	546	671	13
{P. {R.	3 484 2 1	350 15	834 836	870	834	287	484	827	. 7
{P. {R.	402 17	293	36 695	713	695	301	365	685	10
{P. R.	541 18	417	18 958 19	9 7 7	958	369	471	920	38
{P. {R.	543 41	477	1,020	1,061	1,020	276	636	1,002	18
{ P. R.	11,547 15,405	10,358 6,982	21,905 22,387	2,953	21,949	11,226	7,366	20,023	1,773
				-					
{ P. R.	1,272 1,788	1,1 68 759	2,440	4,987	2,440	1,166	813	1,987	442
{P. {R.	29 20	29	2,547 58 28	86	58	27	25	56	1
{P. {R.	1,065 486	780 62	1,845 548	2,393	1,845	640	1,048	1,738	107
{P. {R.	722 152	583 19	1,305 171	1,476	1,305	572	606	1,253	52
{P. {R.	1,355 133	1,195 35	2,550 168	1,359	2,550	7 19	1,598	2,417	133
{P. {R.	517 45	447	964 52	1,016	964	251	640	920	44
{P. {R.	683 229	454 43	1,137 272	1,409	1,137	517	491	1,016	121
{ P. R.	1 ,776	1,511 17	3,287 103	1,695	3,287	1,594	1,456	3,105	180
§ P. § R.	1,623 22	1,310	2,933	1,482	2,933	1,115	1,589	2,763	170
{P. R.	9,042 2,961	7,47 7 960	16,519 3,921	1,703	16,519	6,601	8,266	15,255	1,250
{₽. {R.	1,663 84	1,6 1 4 !0	3,27 7 94	1,685	3,277	1,683	1,352	3,072	205
{P. {R.	1,571 143	1,321 21	2,892 164	3,056	2,892	1,721	881	2,667	225
{P. {R.	1,649 137	1,284 23	2,933 1 60	1,546	2,936	1,662	1,007	. 2,699	234
{P. R.	859 53	751 9	1,610 62	1,672	1,610	902	639	1,562	48
{P. {R.	951 30	845	1,796 35	1,831	1,796	934	819	1,766	30
{P. ≀R.	899 1 58	769 39	1,668 197	1,865	1,668	896	644	1,585	7 9
{P. R.	802 44	690 6	1,492 50	1,542	1, 492	756	617	1,379	113
{P. R.	8,394 649	7,274 1 13	15,668 762	1,826	15,671	8,554	5,959	14,730	934

				<u> </u>		Re-Vaccination.			
No.		Circles and	Districts	•			To .	Successful.	Unknown.
1		2		1		,	15	16	17
1	Karachi	***	•••	•••	т. с.		21,876	•••	21,876
2	Do.	•••	•••	•••	C. C		152	111	•••
3	Do.	•••	•••	•••	R. C.	•••	53	•••	8
4	Tatta	•••	•••	•••	R. C.		66	19	17
5	Do.	•••	***	•••	T. C.	•••	31	16	5
6	Mirpur Sacro	•••	:	•••	R, C.	•••	91	24	- 58
7	Ghorabari	***	•••	•••	11		4	•••	1
8	Sujawal	•••	•••	•••	11	•••	36	2	1
. 9	Jati	•••	•••	•••	9.9	•••	18	6	5
10	Shah Bunder	•••	•••		• 1		19	2	5
11	Mirpur Bathoro	•••	•••	•••	9 9	•••	41	7	10
			Karao	hi Distr	ict Tota	- I	22,387	187	21,986
12	Hyderabad	***	***		T. C.		2,547	112	1,705
13	Do.	***	•••	•••	C. C.	•••	28	28	•••
14	Do.	***	•••	•••	R. C.	•••	548	38	173
15	Tando Bago		•••	***	,,	•••	171		10
16	Badin	•••	***	***	11	-	168	37	65
17	Dero Mohabat	•••	•••	•••	11		52	•••	10
18	Tando Allahyar	•••		•••	> 1		272	•••	132
19	Hala		***	•••	11	•••	103	20	37
20	Guni		•••		11		32	1	9
			Hydera	bad Dist	trict Tota	1	3,921	236	2,141
21	Shahdadpur	•••	•••	•••	R. C.		94	25	29
22	Kandiaro	***	***	•••	11	•••	164	28	24
23	Naushahro Feroze	•••	•••	••	11	•••	160	26	55
24	Sakrand	•••	***	***	11	•••	62	3	25
25	Moro	•••	•••	•••	11		35	13	12
26	Nawabshah	•••	• • •	•••	1)	•••	197	17	37
27	Sinjhoro	•••	•••	•••	,,,	•••	50	3	10
			Nawabsh	ah Dist	rict Total	۔ا	762	115	192

P	in which	uccessful cases the results known,	Persons successfully vaccinated per 1,000 of popula-	Total cost of Vaccination	Number of all successful vaccinations and Re-vaccinations	Average cost of each successful case performed
	Primary.	Re-vaccination.	tion.	Department.	performed by the vaccination staff only,	by the vaccination staff.
	18	19	20	21	22	23
	99:31	•••	51.25	•••	•••	***
	89.04	73:03	***	***		•
	100.00	•••	23.85	***		***
	99.69	38.78	23.96	:··		***
	95.67	61.54	20.31	•••	•••	***
	100.00	72:73	17:49	480	• • •	
	100.00	•••	17.67	***	•••	•••
	100.00	5.71	21.85	400	•••	•••
	100'00	46 [.] 15	19.94	***		•••
	100.00	14.29	23.11	•••		was
	100.00	22:58	23.26	•••	•••	•••
	99·51	46.63	34.90	18,409—4—9	20,210	0—14—7
						-
	99 ·4 5	13.30	21.86	•••	***	0 • 0
	98.25	100.00	18•54	•••	•••	***
	100.00	10.13	22.45	•••		***
	100.00	•••	18:43	•••	•••	***
	100.00	35.92	27.48	•••	•••	***
	100.00	•••	19:73	•••	•••	
	100.00	***	16.57	•••	•••	***
	99·94	30.30	27.53	•••	•••	***
	100.00	4'35	26*43	•••	•••	***
ì	99.91	13.26	23.37	13,570—4—0	15,491	0-14-0
	100:00		7			
	100.00	38'46	30.00	•••	•••	***
	100.00	20.00	32.66	•••	***	0 < 0
	100.00	24.76	31.06	•••	***	•••
	100:00	8.11	25.05	•••	•••	***
	100.00	56.2	29.87	•••	***	•••
	99.75	10.63	28.47	***	***	***
		7:50	28.67	•••	•••	***
	99:97	33.68	29.89	9,472—1—9	14,845	0-10-3

No.		Cin	rcles and Dis	tricts.				Population of District according to census of 1931.	Average population per square mile.	Average number of Vaccinators employed throughout the year.
1			2					3	4	5
28	Mirpurkhas	•••	***	•••		R. C.		47,536	***	1
29	• Samaro		• • •	•••	***	,,		43,779		1
30	Jamesabad	•••	•••	•••	•••	,,	• • •	745 , 08		1
31	Chachro	•••	•••	***	•••	9)	•••	61,974	•••	1
32	Nagar Parkar		•••	• • •		25	•••	41,726	***	1
33	Diplo	o o t	•••	•••	•••	12	•••	25,242	• • •	1
	Mithi	•••		•••	***	,,	•••	45,709	•••	1
35	Khipro	•••	, • •		•••	,,	•••	51,0 30	•••	2
36	Sanghar	•••	***		•••	,,	•••	33,777	•••	1
37	Dighri	***	***	•••	•••	,,	•••	43,053	•••	1
38	Umarkot	•••	•••		•••	33	• • •	39.628	•••	1}
39	Do.	•••	•••	0 f: 0	***	T. C.	•••	3,841		
			Thar a	nd Park	ar Dıstr	ict Total	l	4,68,040		12
40	Dadu	•••	•••	•••	•••	R. C.	•••	57 , 549	•••	1
41	Sehwan	***	***	•••	•••	•,		45,086	0.04	1
42	Johi	•••	•••			,,	•••	. 51, 448		1
43	Kakar	***	• • •	•••	• • •	,,	•••	. 48,448	•••	1
4 4	Mehar	***	•••	•••	•••	,,	••	63,001	•••	1
45	Kotri	•••	• • •	•••	e	,•	••	. 53,787	•••	1
46	Kohistan	• • •	•••	***	0.00	9,	••	. 17,374	•••	1
-				Da	du Distr	rict Tota	1	3,36,693	•••	7
47	L arkana	•••	•••	•••	•••	T C.		. 26,841		1
48	Do.	•••	***	•••	•••	R. C.	••	71 070	•••	1
49	Kambar	•••	***	•••	•••	,,,	••	01 7/5	***	1
50	Rato Dero	•••	***	•••	•••	99	• •	50 781	•••	1
51	Miro Khan	•••	***	•••	•••	99	• •	17 014	• • •	1
52	Warah		••	•••	•••	2>	• (64,783	•••	(1
5 3	Dokri	•••	•••			23	• •	76 567	••• ,	1
54 "	Shahdadkote	***	***	•••	•••	• •	• (37,196	•••	1
				Lark	ana Dist	crict Tota	al .	4,65,399	•••	8

						Primary Vaccination.						
	Total n	umber of per va cc inated.	sons	Average number of persons			Successfu	I.				
	Male.	Female.	Total.	vaccinated by each Vaccinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown.			
	6	7	8	9	10	11	12	13	14			
{P. {R.	849	636	1,485	1,695	1,485	947	466	1,442	43			
∫P.	154 639	56 649	210 1,288	1,475	1,288	552	681	1,251	37			
₹R. {P.	145 514	42 435	187 949	1,236	949	535	325	867	82			
₹R. ₹P. ₹R.	205 1,076	82 890	287 1,966	2,089	1,966	1,005	883	1,933	33			
{R. {P. {R.	74 417	49 345	123 762	1,541	762	348	348	719	43			
{R. {P. {R.	645 4 <i>77</i>	134 400	779 877	1,020	877	276	486	719	85			
ςP.	114 603	29 590	143 1,193	1,280	1,193	439	640	1,101	92			
ξR. ∫P.	66 1,018	21 909	87 1,927	1,041	1,927	854	908	1,808	119			
ξK. ∫P.	143 640	12 630	155 1,270	1,357	1,270	617	538	1,150	90			
₹R. ₹P.	60 644	27 525	87 1,169	1,595	1,169	628	458	1,138	51			
{R. ∫P.	317 543	109 484	426 1,027	1,055	1,027	570	420	1,006	19			
{R. ∫P,	106 24	16 24	122	1,201	48	26	21	47				
(R.	3	1	4		10				•••			
{P. {R.	7,444 2,032	6.517 578	13,961 2,610	1,381	13,961	6,797	6,174	13,264	694			
{P. R.	733 98	678	1,411	1,537	1,411	918	414	1,360	51			
{P. {R.	845 135	. 684 . 18	126 1.529	1,682	1,530	850	542	1,438	90			
ς P.	848	18 713	1 5 3 1,561	1,570	1,561	585	860	1,469	92			
{R. {P. {R.	808 57	681	9 1,489	1,548	1,489	959	402	1,392	97			
{P. R.	1,3 2 5 176	1,145 43	59 2,470	2,689	2,471	1,436	796	2,325	144			
{P. {R.	543 71	459	219 1,002	1,097	1,002	329	641	974	28			
{P. {R.	273 137	24 240 64	95 513 2 01	714	513	178	2 32	463	50			
{P. R.	5,375 683	4,600 179	9 , 975 862	1,548	9,977	5,25 5	3,887	9,421	552			
4 9%												
{P. {R.	477 282	399 73	876 355	1,231	876	509	362	872	4			
{P. R.	1,104 778	920 1,480	2,024 2,258	4,282	2,024	1,180	588	1,801	219			
{P. {R. {P,	1,472 793	1,301	2,773 881	3,654	2,773	1,464	955	2,489	283			
{ R.	1,155 656	1,030 217	2,185 873	3,058	2,185	1,247	729	2,010	175			
{R. {P. {R.	737	677 51	1,414 530	1,944	1,414	981	257	1,244	170			
{P. {R.	1,306 1,770	1,195 720	2,501 2,490	4,991	2,501	1,117	869	2,091	378			
{P, R.	1,126 3,110	1,019 1,114	2,145 4,224	6, 369	2,195	I,295	549	1,863	280			
{P. R.	975 67	853 41	1,828 108	1,936	1,828	1,083	589	1,687	141			
{P. R.	8,3 5 2 7,935	7,394 3,784	15,746 11,719	3,433	15,746	8,876	4,898	14,057	1.650			

							R	e-Vaccination.	
No.		Circles and	Districts.						
110.					7		To .	Successful.	Unknown.
			* iii,						
1		2					15	16	17
					D. C.			34	25
28	Mirpurkhas	•••	***	***	R. C.	••	210 187	10	76
29	Samaro		•••	•••	9 1		287	17	94
30	Jamesabad	•••	***	•••	9 9	•••	123	4	19
31	Chachro	***	•••	•••	11	•••	779	2	203
32	Nagar Parkar	***		***) ,	•••	143	12	52
33	Diplo	400	***	• • •	,,	•••	143 87	. 12	45
34	Mithi	•••	•••	•••	5.5	•••	87 155	17	45 86
35	Khipro	•••	•••	•••	17	•••	87		7
36	Sanghar	•••	•••	***	,,	•		74	107
37	Dighri	***	***	• • •	9 9	•••	426		6
38	Umarkot	***		•••	,,,	• • •	122	6	0
3 9	Do,	***	• • •	•••	т. с.	•••	4	•••	•••
		CDI	מ. ז. מ.	** P	m 1		2.610	183	720
		Than	Parkar D	istrict (rotai	• • •	2,610	105	7.40
40	Dadu	• • •	• • •	•••	R. C.		126	6	91
41	Sehwan		•••	•••	,,	• • •	15 3	26	45
4 2	Johi	•••	•••	•••	19	•••	9	•••	•••
43	Kakar	• • •	•••	•••	, ,		59	18	24
44	Mehar	•••	•••	•••	,,	•••	219	23	141
45	Kotri	290	•••	•••	ı) 3 7	•••	95	24	25
46	Kohistan	•••	•••	• • •	,,	•••	201	8	5
								*	
			1 0	1. 701-4	wint Total	.1	862	105	331
			Dao	au Dist	rict Tota	t1	004	105	105.11.N
47	Larkana			***	т. с.	•••	355	6	144
48	Do.	***	•••	***	R. C.	•••	2,258	908	680
49	Kambar	•••	• • •			• • •	881	106	170
50	Rato-Dero	•••	***	•••		•••	873	279	287
51	Miro Khan	•••	•••	•••	11	•••	530	29	285
52	Warah	•••	•••	•••	,,	•••	2,490	328	1,184
53	Dokri	•••		•••	• • •	•••	4,224	792	1,954
54	Shahdadkote		***	•••	,,	•••	108	26	33
JŦ	Shandadkote	•••	4 * *	•••	,,	***	0		
			Larkat	na Distr	rict Tota	al	11,719	2,474	4,737
			KKA1						

No. I—contd.

in which	successful cases the results known	Persons successfully vaccinated per 1,000 o f	Total cost of Vaccination Department.	Number of all successful Vaccinations and Re-vaccinations performed by the	case performed
Primary.	Re-vaccination.	population.	Department.	vaccination staff only,	by the vaccination staff.
18	19	20	21	22	23
100.00	18.38	31.05	•••	•••	•••
100.00	9.01	28.80	• • •	•••	•••
100.00	8.81	28.75	•••	•••	***
100.00	3.82	31*26		•••	***
100,00	0.32	17:28	•••	0 3 G	***
100.00	13.19	31.85	•••	•••	/ D -))
100.00	16.67	24.24	•••	***	٠,٠
100.00	24.64	35.76	•••	\ • \	, 300,
100.00	009	34.94	•••	30	***
100.00	23.20	27.69	•••	3	***
100.00	5.17	25.24		·	•••
97.92	***	12:24	••••	•••	***
99.98	9.68	28*74	12,252—14—6	13,447	0—14—7
100.00	17:14	23.74	•••		
99.92	. 21.07	32.47	•••	•••	***
100.00	•••	28.55	***	•••	•••
100.00	51.43	29.10	•••		•••
99:96	29.49	37.27		•••	***
100.00	34.29	18.55		•••	***
100.00	4.82	27.11	•••	•••	***
99.99	19.77	20,20	7.062 6 0	0.505	0.41.70
99 99		28.29	7,0636-0	9,526	0-11-10
100:00	2.84	32.71	•••	•••	***
99.78	57.54	38.01	•••	•••	•••
99.96	14.91	31:75	• • •	•••	•••
100.00	24.05	38*31	•••	•••	•••
100.00	11.84	26.96	•••		***
98.49	26.22	37'34	•••	•••	***
99.89	34.89	34.68	•••	•••	***
100.00	34.67	46.05	•••	404	•••
99.72	35.43	35.52	11,677-1-6	1 6 ,53I	0-11-4

									- V-3)	<u> </u>
No.		Cit	cles and Distr	ricts,				Population of District according to census of 1931.	Average population per square mile.	Average number of Vaccinators employed throughout the year.
1			2					3	4	5
55	Shikarpur		• • •	•••	•••	т. с.		62,505	•••	1
56	Do.	•••	***	•••	•••	R. C.	•••	73,419	***	1
57	Sukkur	•••	•••	•••	•••	R.C.	•••	66,350	•••	1
5 8	Do.	•••	•••	. 40	•••	т. с.	•••	69,277	***	1
59	Rohri	•••	•••	•••	•••	R. C.	•.•	77,826	•••	1
60	Do.	•••	***	•••	•••	T. C.	•••	16,900	•••	1
61	Ghotki		***	•••	•••	R. C.	•••	46,839		1
62	Mirpur Mathelo	•••	•••		•••	**	•••	48,556	***	1
63	Garhi Yasin	• • •	***	***	•••	,,	••	68,674	•••	1
64	Pano Akil	•••	•••	•••	•••	£1	•••	47,287	***	1
65	Ubauro	•••	•••	•••	. •	"	•••	46,146	***	1
				Sukkur	Dist	rict Total	•••	6,23,779	•••	11
66	Jacobabad	•••		• 9 •	• • •	T. C.	•••	15,748	•••	1
67	Po.	• • •		•••		R. C.	•••	71 561	•••	1
68	Garhi Khairo	• • •	***	0 • 6	•••	3 9	,			1
69	Thul	•••	•••		•••	2 1	••	61,303	•••	1
70	Kandhkote	•••	•••	•••	•••	• •	•••	64,525	***	1
71	Kashmor	• • •	***	•••	•••	19	•••	41,407	•••	1
			Upper Sind	Frontier	Dist	rict Total	•••	2,54,544	•••	6
•					S	ind Total	. •••	38,87,070		80
						20001		30,07,070		

No. I—contd.

						Primary Vaccination.							
		umber of personated.	sons	Average number of persons vaccinated by each	· Total.		Successfu	ul.	Unknown.				
.]	Male.	Female.	Total.	Vaccinator.		Under one year.	One and under six years.	Total of all ages.					
	6	7	8	9	10	11	12	13	14				
{₽. {R.	950 96	914 90	1,864 186	2,050	1,864	1,131	720	1,856	8				
{P. ⟨R.	1,448 185	1,362 53	2,810 238	3,048	2,810	1,722	757	2,596	214				
{P. (R.	1,015 133	9 72 70	1,987 203	2,190	• 1,987	1,421	367	1,804	183				
{P. {R.	984 87	902 18	1,886 105	1,991	1,886	1,231	614	1,851	35				
{ P. ⟨ R.	1,2 5 7 274	1,105 18	2,362 292	2,654	2,362	1,476	7 19	2,228	134				
{P. {R.	170 10	206	3 76 14	390	3 76	197	167	364	12				
{ P. { R.	722 20	299 3	1,321 23	1,344	1,321	823	182	1,010	311				
{P. {R.	7 73 40	807 1	1,580 41	1,621	1,5 80	902	611	1,523	57				
{₽. R.	1,256 210	1,198 50	2,454 260	2,714	2,454	1,664	641	2,352	102				
{ P. { R.	891 13	724	1,615 15	1,630	1,615	984	378	1,370	245				
{P. R.	780 35	692 3	1,472	1,510	1,472	827	511	1,343	129				
{ P . R.	10,246 1,103	9,481 312	19,727 1,415	1,922	19,727	12,428	5,666	18,297	1,430				
{ P. ⟨ R.	327 4 2 7	296 133	623 5 60	1,183	623	300	297	601	22				
{P. {R.	1,041 269	886 141	1,927 410	2,537	1,927	1,153	692	1,899	28				
{ P. R.	662 58	599 6	1, 261 64	1 ,325	1,261	51 2	5 88	1,145	1 16				
{P. {R.	1,309 565	1,162 283	2,471 848	3,319	2,471	1,171	957	2,226	245				
{P. R.	1,196 163	1,028 9 9	2,224 262	2,486	2,224	1,213	738	2,005	219				
{P. R.	642 190	513 31	1,155 221	1,376	1,155	659	414	1,093	62				
{P. R.	5,117 1,672	4,484 693	9,661 2,365	2,004	9,661	5,008	3,686	8,969	692				
{ P. R.	65,577 32,440	57,585 13,601	1,23,162 46,041	2,115	1,23,211	64,745	45,902	1,14,016	8,975				

		ayan nga maga marana sa sin sin minin nga mbaga a mba]	Re-vaccination.			
No.	(Circles and	Districts				Total.	Successful.	Unknown.
1		2	2				. 15	16	17
55	Shikarpur	•••	•••	***	т. с.		. 186	49	93
56	Do.	***	•••]	R. C.	e# {	238	64	55
57	Sukkur		***	•••	13	•••	203	17	99
58	Do.	***	•••	•••	т. с.		105	5	51
59	Rohri	***	***	•••	R. C.		292	2	287
. 60	Do.	***	•••	•••	T. C.		14	2	6
61	Ghotki	•••	***	•••	Ŕ.C.		23	•••	21
62	Mirpur Mathelo	•••	•••	* * *	,,		41	2	13
63	Garhi Yasin	•••	•••	•••	19	•••	260	7 7	59
64	Pano Akil	•••	***	•••	11		15	•••	5
65	Ubauro	***	•••	•••	11		38	3	18
			Sukk	ur Distri	ict Total	•••	1,415	221	707
66	Jacobabad	***	•••	•••	т. с.	•••	560	37	356
6 7	Do.	***	***	•••	R. C.		410	61	165
68	Garhi Khairo	•••	***	•••	19	•••	64	11	41
69	Thul	•••	0 0 0	•••	11		848	185	417
70	Kandhkote	***	•••	•••	3 ¥	•••	262	22	139
71	Kashmore	***	•••	•••	9.9	•••	221	27	76
		Upper S	Sind Front	ier Distr	ict Total	•••	2,365	343	1,194
				Si	nd Tota	•••	46,041	3,864	32,008

No. I.—contd.

Percentage of s in which were l	successful cases the results known,	Persons successfully vaccinated per 1,000 of popula-	Total cost of Vaccination	Number of all successful vaccinations and Re-vaccinations	Average cost of each successful case performed
Primary.	Re-vaccination.	tion.	Department.	performed by the vaccination staff only,	by the vaccination staff.
18	19	20	21	. 22	23
100.00	52*69	30.48	•••	•••	•••
100.00	34.97	36°23	•••	•••	•••
100.00	16:35	27 .4 5	•••		***
100.00	9:25	26.79	•••	***	•••
100 .00	40.00	28.65	•••	•••	•••
100.00	25.00	21.65	•••		•••
100.00	•••	21.26	***		
100°00	7.14	31.41	***	***.	***
100.00	38*31	35:37	•••	•••	***
100.00	***	28.97	••	•••	•••
100.00	15*00	29.77	•••	•••	***
100.00	31.51	29.69	11,516—7—0	18,518	0—9—11
100.00	35.28	40*51	•••	***	***
100.00	24.90	2 7 ·39	***	•••	•••
100.00	47*83	•••	•••	***	•••
100°00	42.92	39*33	70 0	• • •	***
100 00	17.89	31.41	•••	•••	•••
100.00	18.57	27.05	. 4.	•••	***
100.00	29*29	36.28	6,393—6—0	9,312	0—11—0
99.85	27.54	30.33	1,00,759—9—6	1,17,880	0138

STATEMENT

							1			
No.		Cire	cles and Dis	stricts.				Population of District according to census of 1931.	Average population per square mile.	Average number of Vaccinators employed throughout the year.
1		,	2					3	4	5
1	Karachi D	istrict	•••	•••		•••	•••	3, 15 , 413		8
2	Hyderabad	15	•••	•••		•••	•••	5,62,373	1	10
3	Nawabshah	,,	•••	***		•••	•••	4,96,612	•••	9
4	Thar Parkar	,,	•••	•••		•••	•••	4.64,199	• • •	12
5	Larkana	27 ***		•••		•••	•••	4,38,558	•••	7
6	Dadu	,,	•••	'		•••	•••	3,36,693	***	7
7	Sukkur	19 ***	•••	•••				4,75,097	•••	8
8	Upper Sind I	Frontier	•••	• • •		•••		2 , 38,796	•••	5
				d Total exc	ludin	g Towns	•••	33.27,741	•••	66
•		Kar	achi Colle	CTORATE.				1		
	Karachi	•••	•••	•••	•••	T. C.	• • •	2,54,031	- ***	6
es .	Do.	•••	•••	•••	•••	c. c.		•••		1
	Tatta	•••	•••	•••	•••	T. C.	•••	9,635	•••	
						Total	•••	2,63,666	•••	7
		Hype	RABAD COL	LECTORATI	S •				-	
	Hyderabad	•••	•••	•••		т. с.	• •	96,021	***	1
	Do.	•••	•••	•••		c. c.	•••	4,530		1
						Total	•	1,00,551		2
			BSHAH COL					•••	•••	•••
	÷	THAR	PARKAR CO	LLECTORAT		m - c		0.015		
	Umerkot	•••	• 4	•••	•••	т. с.	••	3,841	•••	•••
						Total	••	3,841	• • •	•••
	Larkana .	LARI		ECTORATE.	•••	т. с.	10	. 26,841	•••	1
						Total	•••	. 26,841		1
		D	ADV COLLE						•••	•••
			KUR COLLE					•••		
	Cr.1-1					T. C.	••	69,277		1
	Sukkur	• • •	***	•••			••	60 505	***	1
	Shikarpur	4 • •	•••	•••	•••	13		16,900		1
	Rohri	•••	•••	•••	•••	19	•			
	15					Total	••	1,48,682	•••	3
								1	1	

No. I.—contd.

						Pri	mary Vacci	nation.	
	Total n	umber of persyaccinated.	sons	Average number of persons			Successfu	1.	
	Male.	Female.	Total.	vaccinated by each Vaccinator.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown.
	6	7	8	9 .	10	11	12	13	14
{P. {R. {P. {R.	3,904 250	3,055 78	6,959 328	} · 911	6,959	2,391	4,005	6,761	195
{P. R.	7, 74 1 1,15 3	6,280 193	14,021 1,346	} 1,537	1,4021	- 5,408	7,428	13,212	807
{P, R.	8,394 649	7,274 113	15,668 762	1,826	15,671	8,554	5,959	14,730	934
{ P. { R.	7,420 2,029	6,493 577	13,913 2,606	} 1,377	13,913	6,771	6,153	13,217	694
{P. {R.	7,875 7,653	6,995 3,711	14,870 11,364	3,748	14,870	8,367	4,536	13,185	1,646
{ P. R.	5,375 683	4,600 179	9,975 862	3,548	9,977	5,255	3,887	9,421	552
{ P. R.	8,142 910	7,459 200	15,601 1,110	2,089	15,601	9,869	4,165	14,226	. 1,375
{P. {R.	4,850 1,245	4,188 560	9,038 1,805	} 2,167	9,038	4,708	3,389	8,368	670
{P. R.	53,701 14,572	46,344 5,611	1,00,045 20,183	} 1,822	1,00,050	51 ,323	39,522	93,120	6,873
	# 100	h 40#	- 1 CDD	,					
{P. R.	7,492 14,980	7,185 6,896	14,677 21,876	6,092	14,720	8,743	3,250	13,020	1,567
{P. R.	37 149	36	73 152	325	73	28	31	65	***
{P. {R.	114 2 6	82	196 31	} ^>*	197	64	80	. 177	11
{P. R.	7,643 15,155	7,303 6,904	14,946 22,059	3,286	14,990	8,835	3,361	13,262	1,578
	1 070	1 160	2.440						
{P. {R. {P. {R.	1,272 1,788	1,168 759	2,440 2,547	} 4,987	2,440	1,166	813	1,987	44%
{P. R.	29 20	29 8	58 28	<u>}</u> 86	58	27	25	56	1
{P. R.	1,301 1,808	1,197 767	2,498 2,575	3,536	2,498	1,193	5 38	2,043	443
	•••	•••	•••	•••	c * *	•••	•••		***
{P. {R.	24 3	24	48 4	}	48	26	21	47	•••
{P. {R.	24	24 1	48 4	}	48	26	21	47	•••
{P. {R.	477 282	399 73	876 355	} 1,231	876	509	362	872	4
{P. {R.	477	399 73	876 355	} 1,231	876	509	362	872	4
₹R.	282		233		***	****			•••
{P.	98 4 87	902 18	1,886 105	} 1,991	1,886	1,231	614	1,851	35
(R. {P.	950 96	914	1,864 186	3,050	1,864	1,131	720	1,856	8
{P. {R. {P. {R. {P. {R. }	170 10	206	376 14	390	376	197	167	364	12
{P. R.	2,104 193	2,022	4,126 ' 305	} 1,477	4,126	2,559	1,501	4,071	55

		^							Re-vaccination,	
No.		C	ircles and l	Districts,				Total.	Successful.	Unknown.
1			2	•	ę			15	16	17
1	Karachi	District	•••	• • •		•••		328	60	105
2	Hyderabad	"	•••	***		•••	4 4	1,346	96	436
3	Nawabshah	21	0.00	***		•••	•••	762	115	192
4	Thar Parkar	2)	•••	•••		0 e U	•••	2,606	183	720
5	Larkana	,,	•••	•••		•••	• • •	11,364	2,468	4,593
6	Dadu	,,	a o	•••		• • •	•••	862	105	331
7	Sukkur	11	•••	•••			•••	1,110	165	557
. 8	Upper Sind	Frontier	•••	•••		• • •	• • •	1,805	306	838
						g Towns	* * *	20,183	3,498	7,772
		KA	RACHI COL	LECTORA						
	Karachi	***	• • •	***	•••	T. C	• • •	21,876	•••	21,876
	Do.	***	* 047	• • •	• • •	C. C.	• • •	. 152	• 111	
	Tatta	•••	•••	•••	•••	T. C.		31	16	5
						Total	•••	22,059	127	21,881
		Hyd	EEABAD CO	LLECTOR.	ATE.					
	Hyderabad	•••	•••	•••		T. C.		2,547	112	1,705
	Do.	•••	•••	***	•••	C. C.	•••	28	28	•••
						Total	•••	2,575	140	1,705
		Nav	лавянан Со	LLECTOR	RATE.			•••		••
		THAR	PARKAR C	OLLECTO	RATE.					
	Umerkot	•••	• • •	•••	***	T. C.	u e ·	4	•••	•••
		Т. ла	RKANA COL	የ መ ሪሞሪ ው ለ ፣	הפרוד	Total	•••	4	######################################	0 0 0
	Larkana			UBOTOKA.		T. C.		355	6	144
						Total	•••	355	6	144
		D	ADU COLLE	CTORATE.				0.00	•••	8 0 0
		Sv	KKUR COLL	ECTORAT	E.					
	Sukkur	•••	***	•••	•••	T. C.	• • •	105	, 5	51
	Shikarpur	•••	•••	***	•••	"	•••	186	49	93
	Rohri	•••	***	***	• • •	,,	•••	14	2	6
						Total		305	56	150

No. I-contd.

1				
successful cases the results known	Persons successfully vaccinated per 1,000 o f population.	Total cost of Vaccination Department.	Number of all successful Vaccinations and Re-vaccinations performed by the vaccination	Average cost of each successful case performed by the vaccination staff.
Re-vaccination.			staff only,	
19	20	21	22	23
26°91	21.63	8,271—10—6	6,821	1— 3— 5
10.55	2 3 °66	10,751— 5—0	13,308	0-12-11
20°18	29°49	9,472— 1—9	14,845	0—10— 3
9*70	28*87	12,262—14—6	13,400	0-14- 8
· 36 · 45	35 *69	8,039—12—6	15,653	0 8 3
19.77	28*29	7,063— 6—0	9,526	0—11—10
29.84	30*29	8,707— 2—0	14,391	0— 9— 8
31.64	36*32	5,506— 7—0	8,674	0—10— 2
28*19	29.27	70,074—11—3	96,618	0—11— 7
•••	51.25	10,637—10—3	13,020	0—12— 5
73.03	***	440	176	***
61°54	20.03	e •••	193	•••
71.35	50.78	10,137—10—3	13,389	
13*30	21*86	2,818150	2,099	1 5 0
100.00	18.20	***	84	•••
16.09	21.71	2,818—15—0	2,183	•••
	•••	0 0 0	•••	***
•••	***	•••	47	•••
**************************************	* * •	0 0 0	47	9 9 h
2 *84	32:71	951— 1—0	878	1- 1- 4
2.84	32:71	951— 1—0	878	1-1-4
на принятильного опринятильного	***	Galginoranian formationaria granuscialista	0 0 0	box
9.26	26 •7 9	1,218 00	1,856	0—10— 6
52.69	30.48	864— 0—0	1,905	0— 7— 3
25.00	21.65	727 — 5—0	366	11—5—10
36.13	27.76	2,809— 5—0	4,127	0—10—11
	Re-vaccination. 19 26'91 10'55 20'18 9'70 36'45 19'77 29'84 31'64 28'19 73'03 61'54 71'35 13'30 100'00 16'09 2'84 2'84 2'84	the results known Re-vaccination. 19 20 26'91	## Persons successfully vaccinated per 1,000 of population. 19	## Persons successfully vaccinated per 1,000 of population. Persons successfully vaccinated per 1,000 of population.

STATEMENT

No.		Circles an	d Dis	tricts.			Population of District according to census of 1931.	Average population per square mile.	Average number of Vaccinators employed throughout the year.
1			2				3	4	5
	UPPE	R SIND FRONT	HER (Collector	ATE				
	Jacobabad	***		000	T. C.	•••	15,748	•••	1
					Total		. 15,748	- •••	1
					Towns Total	•••	5,59,329		14
	Inspector's cost	000	•••	•••	•••	•••	•••		600
					Sind Total	•••	38,87,070		80
		By Spec	CIAL S	STAFF.					
	Local Board	•••	•••	99 g'	•••		33,27,741	***	66
	Municipalities	•••	•••		•••	• • •	5,54,799	•••	12
	Cantonments	•••	•••	•••	000	•••	. 4,530	•••	2
				,	Sind Total		38,87,070	•••	80
	By Prison Dispe	ensary Staff	•••	***		5 0	***	••	•••
	By Railway	Do.	***	₽♦♦	***	••)	•••	
	Private Medical	Practitioners	•••	***	***	• • •	•••	•••	
					Total	• • •	•		•••
					GRAND TOTAL	•••	***		
Name and Address of the Owner, where the Owner, which is the									,

No. I.—contd.

			•				Prir	nary Vaccin	nation.	
	Total nu	mber of pers	ons	Avera numbe perso	er of			Successfu	1.	
	Male.	Female.	Total.	vaccin by early Vaccin	ach	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown.
	6	7	8	9)	_ 10	11	12	13	14
									,	
{P. R.	327 427	296 133	623 560	} 1.	,183	623	300	297	601	22
{P. R.	327 427	296 133	623 560	} 1,	,183	623	300	297	601	22
{P. R.	11,876 17,878	11,241 7, 990	23,117 25,858	} 3,	,498	23,161	13,422	6,380	20,896	2,102
	***	•••			••	•••	•••	•••	•••	
{₽. R.	65,577 32,440	57,585 13,601	1,23,162 46,041	} 2,	.115	1,23,211	64,745	45,902	1,14,016	8,975
{ P. R.	53,701 14,572	46,344 5,611	1,00, 0 45 20,183	} 1,	822	1,00,050	51,323	39,522	93,120	6,873
{P. R.	11,810 17,699	11,176 7,979	22,986 25,678	} 4,	055	23,030	13,367	6,324	20,775	2,101
{P. R.	66 169	65 11	131 180	}	155	131	55	56	121	1
{P. R.	65,577 32,440	57,585 13,601	1,23,162 46,041	} 2,	115	.1,23,211	64,745	45,902	1,14,016	8,9 7 5
{P. R.	213 3 ,7 91	7 39	220 3,830	}	•	22)	4	2	220	***
{₽. R.	150 1,259	106 270	256 1,529	}		256	103	96	222	26
{P. R.	15 1	8	23 2	}		23	19		19	. 3
{P. R.	378 5,051	121 310	499 5 ,361	••	•	499	126	98	461	29
{P. R.	65,955 37,491	57,706 13,911	1,23,661 51,402			1,23,710	64,871	46,000 .	1,14,477	9,004

STATEMENT

					1	I	Re-Vaccination.	
No.		Circles and	d Districts.			To .	Successful.	Unknown.
1			2			15	16	17
	UPPER	SIND FRONT	TIER COLLECT	FORATE.				
	Jacobabad	•••		Т. С,		560	37	356
				Total		560	37	356
				Towns Total		25,858	366	24,236
	Inspector's cost	***		•••	,	•••	0 0 0	
4				Sind Total		46,041	3,864	32,008
		BY SPEC	CIAL STAFF.					
	Local Board	•••	• • • • • • • • • • • • • • • • • • • •	• • •		20,183	3,498	7,772
₩	Municipalities	•••	•••	***	•••	25,678	227	24,236
	Cantonments		•••	***		. 180	139	•••
		,		Sind Total	296	46,041	3,864	32,008
	By Prison Dispe	ensary Staff	•••	***		3,830	2,347	123
	By Railway	Do.	•••	·		1,529	405	899
	Private Medical	Practitioners		***	•••	2	***	***
				Total		5,361	2,752	1,022
				GRAND TOTAL	• • •	51,402	6,616	33,030

No. I.—contd.

Percentage of s in which t were k	the results	Persons successfully vaccinated per	Total cost of Vaccination	Number of all successful vaccinations and Re-vaccinations	Average cost of each successful case performed
Primary.	Re-vaccination.	1,000 of popula- tion.	Department.	performed by the vaccination staff only,	by the vaccination staff.
18	19	20	21	22	23
100.00	18'14	. 40*51	886—15—0	638	1—6—3
100.00	18*14	40.21	886—15—0	638	. 1—6—3
99*43	22.56	38.01	17,603-14-3	21,262	0-13-3
	4	•••	13.0810-0	•••	***
99.85	27*54	30'33	1,00 , 759—9—6	1,17,880	0—13—8
		(*		American Ame
99*94	28*18	29.03	***	***	<i>6</i> 00
99:47	15*74	3 7 .85	***	***	•••
93.08	77*22	57*40	•^•	•••	•••
99*85	27.54	30.33	1,00,759—9—6	1,17,880	0—13—8
100.00	63*31	•••	•••	***	***
96•52	64°29	***	***	•••	***
95.00	•••			•••	•••
97.68	63•42			•••	•••
99*84	36*01				c ⊕ e

128

STATEMENT No. I.—contd.

Summary.

					imber of a cci nated			umber of performed.	Perce	of successful nich results known.		
			Prim	ary.	Re-vao cinatio		Primary.	Re-vac- cination.	Prin	nary.	Re-vac- cination.	
By Special Sta	ff (Statement I)	1,23	,162	46 , 04	41	1,23, 211	46,041		99•85	27.54	
By Dispensary	Dispensary Staff (Statement III)			. 476		59	476	5,359		98'22	63*45	
By other Agen	y other Agencies, if any .					2	23	2		95.00	*	
	Т	otal	1,23	,661	51,40	02	1,23,710	51,402		99:84	36'01	
Average n persons vac each vac	ccinated by		mbe r c		dren nated.	V	Ratio of successful accinations	Total cos		(erage cost	
Vaccinators employed.	Persons vaccinated by each vaccinator.	Under yea		und	One and under six years.		per 1,000 of opulation.	departme	ent.	st	ccessful case.	
80	80 2,115		1 ,7 45		45,902		30 ·3 3	1,00,759—	9—6	0-13-8		
•••	•••		107		. 9 8		& ♥ ₱	•••			•••	
•••			19		***			***				
. 80	80 2,115 6		46,0		46,000		***					

129

STATEMENT No. 1.—contd.

Summary.

					number of vaccinated.	Total nu operations		ed.	Percentage of successful cases in which results were known.			
*				P r imary.	Re-vacci- nation.	Primary.	Re-vac nation		Primary,		-vacc ation	
Districts exc	luding towns	•••	•••	100,045	20,183	100,050	20,1	183	99:94		28*1	9
Towns	***	***	•••	23,117	25,858	23,161	25,8	358	99•43		22.5	6
By Dispensa	By Dispensary Staff			220	3,830	220	.3,8	330	100.00		6 3 °3	1
By private N	By private Medical Practitioners .			23	2	23		2	95.00		•••	
By Railway l	By Railway Dispensaries			256	1,529	253	1,529		96 · 5 2		64.2	9
		Total		123,661	51,402	123,710	51,4	102	99.84		36*0	1
Average n persons vac each vac		Number o successfu nat			Ratio of successful vaccinations	Total co		all fu	imber of success-	c o e	erage st of ach	
Primary.	Re-vacci- nation,	Primary.		-vacci- ation,	per 1,000 of population.	D G par u			nations formed.		cessfu ase.	11
1 ,516	306	93,120		3,498	29:27	Rs. 70, 0 74	a. p.		96,618	Rs.	a. 11	
1,651	1,847	20,896		366	38.01	17,603	14 3		21,262	0	13	3
***	•••	220		2,347	***	•••			•••		•••	
***	4.0	19		•••	•••	•••			•••		• • •	
•••	222		405	•••	••	•••				•••		
1,540	1,540 576 114,477			6 616	30.33	1,00,759 9 6			121,093	0	13	4

STATEMENT

Vaccination

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

		- 14 7-4							
								PERSONS 1	PRIMARILY
Establishments.	Total Number.	Number success- fully vacci- nated.	Total Number.	Number successfully vaccinated.	Total Number,	Number successfully vaccinated.	Total Number.	Number successfully vaccinated.	Total number.
								YEA	RS ENDED
	1927	-28.	1928	8-29.	1929	-30.	1930	1931-	
Government	***		•••	•••	•••	(•••	•••		
Municipality	13,492	12,086	14,725	12,851	18,046	15,421	16,384	14,174	18,431
Local Funds	81,813	76,923	84,093	79,061	69,725	6 5, 253	82,644	78,096	87,024
Cantonment	67	60	79	79	216	212	84	83	118
Native States	5,167	4,897	5,243	5,000	4,016	3,83 7	5,065	4,928	5,649
Dispensaries	594	470	854	736	1,302	1,067	1 ,21 8	965	771
Army—									
Europeans	0.00	•••	•••	•••	•••	•••	· •••	•••	•••
Native		•••	•••	`***	•••	•••	••		***
Total	1,01,133	94,436	1,04,993	97,727	93,305	85.790	1,05,395	98,246	1,11,993

No. II.

Return.

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

VACCINAT	red.												
Number successfully vaccinated.	Total Number.	Number successfully vaccinated.	Total Number.	Number success- fully vacci- nated.	Total Number.	Number successfully vaccinated.	Total Number.	Number successfully vaccinated.	Total Number	Number successfully vaccinated.			
on 31st I	MARCH.							<u> </u>	,				
32. 1932-33. 1933-34. 1934-35. 1935-36. 1936-37.													
•••	•••	•••	•••	•••	•••	•••	•••	•••	•••				
15,463	21,469	17,558	19,004	15,180	21,334	17,791	22,395	18,926	2 2,986	20,775			
80,316	94,804	89,650	88,707	83,569	9 0,69 8	84,656	96,412	89,768	1,00,045	93,120			
. 116	91	91	62	62	139	139	60	60	131	121			
5,502	6,352	6,215	6,579	6,459	6,406	6,257		•••		•••			
606	1,747	1,398	841	620	334	276	521	455	499	461			
			,										
•••	•••	•••	1.0	•••	•••	•••	•••	•••	•••	•••			
•••	•••	٠••	•••	•••	•••	•••	•••	•••	•••	· 			
1,02,003	1,24,463	1,14,912	1,15,193	105,890	1,18,911	1,09,119	119,388	109,209	123,661	114,477			





