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The Royal Sanitary Institute





Annual Public Health Report of the Province of Assam for the year 1939

BY

LIEUT.-COLONEL A. M. V. HESTERLOW, M.B., CH.B. (EDIN.), B.SC., P.H. (EDIN.), D.T.M. & H. (EDIN.), I.M.S., DIRECTOR OF PUBLIC HEALTH, ASSAM

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GOVERNMENT OF ASSAM

OFFICE OF THE DIRECTOR OF PUBLIC HEALTH, ASSAM

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FROM

LIEUT.-COLONEL A. M. V. HESTERLOW, M.B., CH.B. (EDIN.),
B.SC., P.H. (EDIN.), D.T.M. & H. (EDIN.), I.M.S.,
DIRECTOR OF PUBLIC HEALTH, ASSAM,

To

THE SECRETARY TO THE GOVERNMENT OF ASSAM
IN THE EDUCATION AND LOCAL SELF-GOVERNMENT
DEPARTMENTS.

Dated Shillong, the 16th July 1940.

SUBJECT :- Public Health Report for the year 1939.

SIR,

I have the honour to submit herewith the Annual Public Health Report for the year 1939.

Your obedient servant,

A. M. V. HESTERLOW, Lieut.-Colonel, I.M.S., Director of Public Health, Assam. Digitized by the Internet Archive in 2019 with funding from Wellcome Library

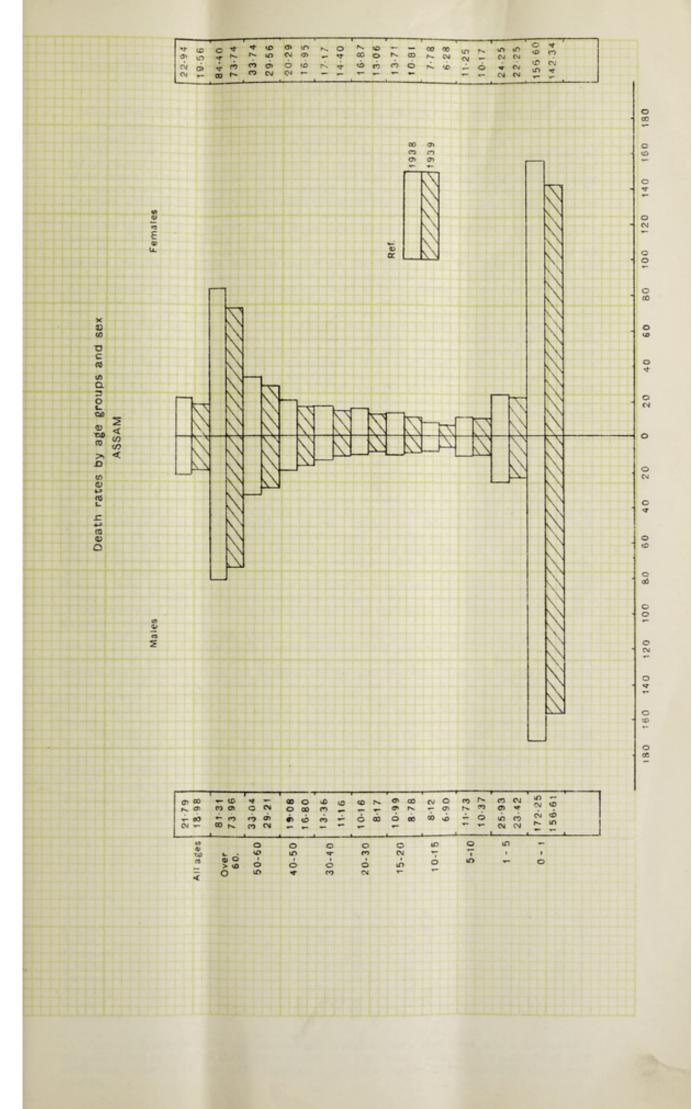
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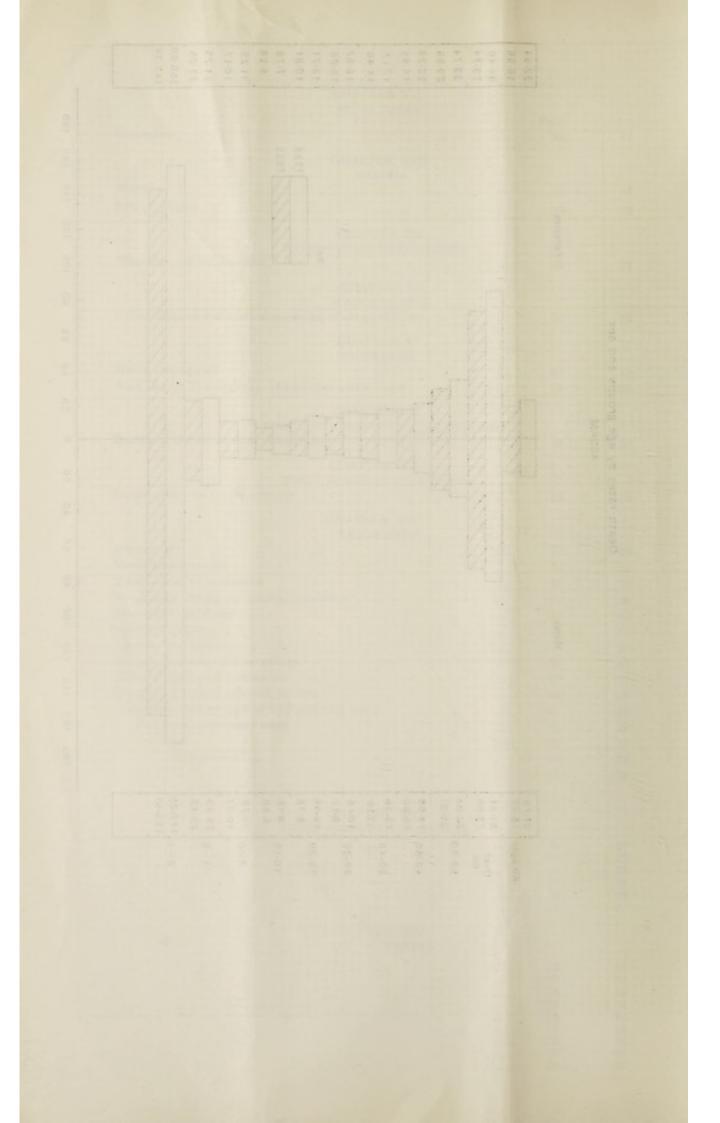
CONTENTS

		(CHAPTER	I		n	D.
Meteorology, economic ec	ondition	s, i.e., pric	es of food-g	rains, etc.,	Meteo-	Para.	Page
rology						1	1
Economic conditions, pric	ces of lo	od-grains,	etc		***	2	1
		C	HAPTER I	I			
		VIT	AL STATIST	ICS			
(Including	g population	and emigrat	ion and immig	gration)		
General Census figures, pr	rovincia	l birth and	death-rate	s, compariso	n with		
other provinces			10/200		***	3	2
Birth registration, General		0.2		***		4	4
Birth registration in urba		***	HAPTERS		***	5	4
Birth registration in rural Deaths and death-rates	areas	***	COVIDE UND	***	***	6	5
Death registration, General	al					8	5
Death registration in urba			betall con-	manufall-ho	A	9	5
Death registration in rura						10	6
Seasonal incidence of mor				****		11	6
Registration in Hill Distr	AL RESIDENCE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO ADDRESS OF THE PERSON NAMED IN COLUMN TO ADDRES					12	6
Registration in Tea Estate						13	7
Registration on Railways		111	ALEER X	HD		14	8
Mortality according to se	x	OLIVERS	ADMIN HELL			15	8
yy yy yy	classes		***	11		16	8
22 22 22	age	1	17 23747	H3		17	8
Registration in compulsor			OTTAVE			18	10
Inspection of village regis						19	10
General accuracy of vital	statistic					20	10
year Emigration and Immigra	tion		***		***	21	10
Railway coolie camps	LIOII		***	popiliagon		22	11
Kanway coone camps						population may	Desirolle
		C	HAPTER I	II			
			H AND THE	E HISTORY	OF CHIEF I		and the same
The state of Public Healt	h in the	Province	***	311	H	23	11
Cholera	***	****	***		101131110	24	12
Cholera in tea estates	***	***	***	***		25	12
Small-pox	***	II non in	individual	town and	l susal	26	12
High rates of mortality fro	om sma	ıll-pox in	individual	town and	rural	27	12
Plague					***	28	13
Fevers					***	29	13
Dysentery and diarrhoea						30	13
Respiratory diseases						31	14
Influenza			2 441	HD	***	32	14
Other causes		er market	HT PART I	M PF WITE	***	33	14
Yaws		***				34	14
Minor eye complaints	***	***				35	14
Naga sore			***	***	****	36	14
Kala azar	***	***				37	14
Leprosy						38	15
		C	HAPTER	IV			
			PIDEMIOLO				1
Epidemiology						39	16
			CHAPTER				
n 1		FAIR	RS AND FES			40	16
Fairs and Festivals			HAPTER	VT		5/2 3	10
11 11 11	RRANGA		HAPTER '	NG NOTIFIEL	AREAS)		
'Municipal water supplies			(INCLODIN			41	16
ridincipal water supplies	354	***	1000	1885			

CHAPTER VII

		RURA	L AREAS				
		NO KL	LI THELLIS			Para.	Page
Sanitation						42	17
		CITAR	TOD				
		7.7777000	TER VIII				
Malaria		M2	ALARIA			40	17
	us, Messer	****	PHOCH STATE			43	17
Sale of quinine			··· sis mi		*** 10	44	18
		CHAI	PTER IX				
	MAT		D CHILD WE	LEARE			
Maternity and child we			D CHILLD III	ALM THAT AS		45	21
	A SECTION AND A SECTION ASSESSMENT	The second	Section and	age of France	3000		
		CHA	PTER X				
			DL HYGIENE				
School Hygiene and me	dical inspect	ion of school	ol children			46	23
		CHA	PTER XI				
			PAGANDA				
Health propaganda		TKO.	radarda			47	23
King George Thanksgiv		···· Subaroulosis	Eund			48	23
King George Thanksgiv	ing (Anu-1	uberculosis) rund	*** 11511		40	23
		CHAP	TER XII				
	RURAL	AND URBAN	HOUSING (CONDITION	IS		
Rural and Urban Hous	ing Conditi	ons		***		49	23
		CTTAT					
			TER XIII				
		LIC HEALTI	H ADMINIST	RATION		or post to the same	ni conside
Budget grants for the De	partment	***	***			50	24
		CHAPT	TER XIV				
			CINATION				
Introductory				on lady to		51	26
Vaccination agencies	sens ambud	Cherry bru	married and and	The chi		52	26
Total number of operat	ions					53	26
Vaccination among the			***			54	26
		344				55	26
Deaths from small-pox	***				***		
Special Regulations				***	***	56	27
Dispensary vaccination						57	27
Percentage of successful		***		***		58	27
Different methods of vac			***			59	27
Vaccination work in diff						60	27
Composition and strengt	th of the Ins	pecting sta	ff			61	28
Vaccination in compulse	ory areas	. Coros las	arright un			62	28
Vaccine depot						63	28
Cost of the Department						64	- 28
General						65	28
		210					
			TER XV				
	OTH	HER PUBLIC	HEALTH SE	RVICES		100	
Industrial Hygiene		191			***	66	29
Mines Public Analyst (Food a	dulteration)	***				67 68	29 29
Port Health administrat	ion					69	34
Sanitary works (civil)		***		***		70	34
Public Health Board	***				***	71	34
		CITAL	WEED WIT				
			PTER XVI				
		GENERA	L REMARK	0			
Research work		00				72	34
Leper Asylums and Cole			*****		***	73	34
Famine Public Health Acts	***				***	74 75	34
Public Health Essays		17	100 100 100			76	34
Bacteriophage	2.00 VA (1)			PER TIRAL I		77	34
Plasmoquine and Atebr	ine		***			78	34
Personal proceedings Office						79 80	34 34
Onice	***			***	***	00	34





Annual Public Health Report of the Province of Assam for the year 1939 CHAPTER I

METEOROLOGY, ECONOMIC CONDITIONS, i.e., PRICE OF FOOD-GRAINS, ETC.

The Meteorologist, Calcutta, has furnished the following note on the meteorological

-conditions of the Province of Assam for the year 1939.

(1) The cold weather period—January and February.—In January no western disturbance affected the weather of the Province and only a few light showers occurred on some days towards the end of the month. Consequently the sky was less clouded than usual and the total rainfall during the month was in large defect, the actual rainfall being only 13 per cent. of the normal. In February, although two western disturbances visited the Province, the first one giving scattered showers on the 11th and the second one local rain on the 14th, the total rainfall for the month remained in defect by 18 per cent. The mean cloud amount and the minimum temperature were

however, slightly above normal in this month.

The hot weather period—March to May.—The rainfall of the Province was in la ge defect (88 per cent less than normal) in March as none of the disturbances from the west reached Assam during this month and also because the activity of thunderstorms was much less than usual. In April although the weather of the Province continued to be unaffected by western disturbances, there was a marked increase in thunder storm activity. The thunderstorms however, failed to give their usual quota of rainfall, and the total rainfall for the month remained in defect by 19 per cent. Cloud amount and relative humidity were in defect in both these months, while both maximum and minimum temperatures were above normal in April. Thunderstorms occurred almost throughout the month of May, but the associated precipitation was more marked after the 13th. With the extension of the south-west monsoon into the North Bay of Bengal by the 18th, locally heavy thundershowers occurred in Assam, Dhubri and Cherrapunji recording 11* each in 48 hours ending at 8 hours on the 20th. Due to these thunderstorms the Province had slightly more than its normal rainfall (7 per cent. excess) during the month. Temperature and humidity were practically normal while skies were slightly more clouded than usual

The monsoon period—June to September.—Marked thunderstorm activity characterised the first five days of June preceding the preliminary advance of the south-west monsoon into the Province which occurred on the 5th of this month. Following a temporary Iull after its first onset, the monsoon revived over the Province by the 11th and remained generally active till the end of the month giving copious rain. The month's total ranfall was in excess by 7 per cent. The activity of the monsoon during the months of July and August was controlled by the usual depressions and storms of this season. Nearly general rain fell over the Province on several days in July and the total rainfall for the month was slightly in excess. In August, although general rain fell on a few days in the first half of the month, rainfall decreased thereafter and the total rainfall for the month was in defect by 43 per cent. Conditions improved in September and during the second week of the month the monsoon was moderate to strong over the Province. In the fourth week, under the influence of a depression which travelled from the east central Bay of Bengal to Chota Nagpur, then recurved towards north-east and filled up over Assam, the monsoon was unusually strong over the Province. The total rainfall for the month was in moderate excess (22 per cent.). Temperatures and humidity were generally normal in all the months and cloudiness was slightly in excess except in August.

The retreating monsoon period—October to December.—Under the influence of a depression from the east central Bay of Bengal which crossed the Sunderbans coast and filled up over south Bengal on the 2nd of October the south-west monsoon current strengthened over Assam and nearly general and locally heavy rain fell between the 1st and the 4th. Thereafter, the south-west monsoon withdrew and was followed by the type of weather characteristic of the transition from the south-west to the north-east monsoon. Scattered thundershowers occurred on many days during the third week while nearly general or local rain fell on a few days towards the end of the month. The total rainfall of the month as well as the mean cloudiness was slightly in excess.

November was practically rainless except for a few falls in the second week of the month, and the mont's rainfall was in defect by 94 per cent. In December although a few falls of rain occurred over the Province, the rainfall for the month was in large defect (71 per cent.). Temperatures, humidity and cloudiness were nearly normal in both these months.

2. Economic conditions, prices of food-grains, etc.—The report deals with the plains districts of the Province. The staple diet of the Province is rice. The average quantity of common rice sold per rupee in 1939 and in the previous 5 years is shown in the table below:—

	1000000		-	-	0.35 04						
	D	istrict			107 01	1934	1935	1936	1937	1938	1939
10.11		1			1011,119	2	3	4	5	6	7
Cachar	160.10		101		811.0	S. ch. 12 0	S. ch. 15 10	S. ch. 13 10	S. ch. 14 10	S. ch. 12 10	S. ch. 10 7
Sylhet Goalpara					21	11 10 12 5	12 7 13 7	12 3 12 0 12 3	12 12 11 12 11 4	11 11 11 0 10 14	10 7 10 3 10 3
37					14.0	11 4 13 6 12 10	11 15 13 10 15 5	14 11 14 4	14 0 13 6	10 14 13 12 13 11	11 6
Citt.					574.0	11 7	11 14 11 12	11 14 11 11	11 15 11 15	12 8 11 15	10 13 10 15

From the figures given in the above table it will be seen that there was a tendency for the price of rice to rise in all the districts during the year under report. Provincial birth and death-rates, were 28:44 and 19:25 respectively in 1939 against 27:89 and 20:90 respectively in 1938.

CHAPTER II

VITAL STATISTICS

(Including population and Emigration and Immigration)
3. General Census figures.—The report refers to the plains districts of the Province, the population of which according to the census of 1931, was 7,927,953 (4,187,085 males and 3,740,868: females).

While in former reports the birth-rates and death-rates, and other ratios were calculated on the census population, this year these rates have been calculated on the estimated population of the year. Average and other ratios for groups of previous years have also been calculated on estimated populations. The estimated population of the plains districts for the year 1939, was accordingly, 8,523,816 (4,501,412 males and 4,022,404 females), as compared with the estimated population of 8,504,722 for the year 1938. The growth of the population has been estimated from the natural increase—excess of births over deaths—since the census of 1931. It has not been possible to take immigration and emigration into account as no dependable statistics are

As all ratios and comparisons will henceforth be based on estimated populations, Table "D", which indicated the extent of the error between rates based on estimated and census populations has been omitted as it now will serve no useful purpose. In its place, this year, a statement has been inserted to show in convenient form the growth of the population and the birth and deathrates in the districts each year since 1931.

	Districts		Estimated mid- year population	Number of births	Birth-rate per mille based on the estimated population	Number of deaths	Death-rate per mille based on the estimated population
I I am In	1	Hot years	2	3	4	5	6
Term sell	1600 199	The state of the s		19	31		The second
Cachar			540,263	15,972	29.56	11,632	21.53
Sylhet			2,735,095	91,113	33-31	57,333	20.96
Goalpara	***	***	885,250	26,393	29-81	19,019	21:43
Kamrup			977,257	21,002	21.49	12,658	12.95
Darrang			585,059	15,058	25.78	11,223	19-18
Nowgong			563,066	12,135	21.55	7,821	13.89
Sibsagar			934,989	24,285	25-97	15,926	17:03
Lakhimpur	200	***	725,552	17,048	23.49	12,305	16.96
Total f	or the Pr	ovince	7,946,531	223,006	28-06	148,117	18:64
				19	32		
Cachar			544,527	17,714	32:54	10,397	19:09
	***		2,772,962	98,790	35.63	54,914	19.80
Sylhet	***	***	891,009	26,734	30.00	29,973	23.54
Joalpara			984,108	21,294	21.64	15,064	15.31
Kamrup	***	***	588,912	15,578	26.45	11,647	19.78
Darrang	***	***	566,930	12,295	21.69	8,631	15.22
Nowgong		***	944,063	26,460	28.03	15,931	16 87
Sibsagar Lakhimpur	***		730,577	15,454	21.15	12,764	17-47
Total for the	Province	ministration	8,023,088	234,319	29.21	150,321	18:74
			ogor off sty	19	33	Albert delle	4 5
Cachar	***		553,165	18,393	33.25	12,188	22.03
Sylhet			2,820,536	100,103	35.49	64,799	22.97
Goalpara			896,905	28,452	31.72	20,857	23.25
Kamrup			991,984	22,312	22.49	13,635	13.74
Darrang			593,152	16,791	28.31	11,611	19.57
Nowgong	***		570,812	11,119	19.48	6,799	11.91
Sibsagar			955,002	26,854	28.12	16,704	17:49
Lakhimpur			738,378	22,094	29.92	14,461	19:58
Total f	or the Pr	ovince	8,119,934	246,118	30.31	161,054	19.83
		TE TO ST.	7 11 01	19	34		To Divis
Cachar		I to 0 Sho	559,114	18,542	33.16	10,121	18.10
Sylhet			2,849,666	94,787	32.26	60,171	21.11
Goalpara	***		966,360	30,412	33.55	20,704	22.84
Kamrup			999,697	20,964	20-97	13,543	13.55
Darrang			598,971	19,452	32.48	12,525	20.91
Nowgong		111	575,156	10,408	18.09	6,372	11.08
Sibsagar	***		963,613	26,741	27.75	17,700	18:37
Lakhimpur		*** ***	745,028	21,450	28-79	14,565	19.55
1985 East	for the Pr		8,197,605	242,756	29:61	155,701	18-99

Lerroges a bounder of soul spons	Distric	1930 vens at appointing tradeslated in the oth		Estimated mid- year population	Number of births	Birth-rate per mille based on the estimated population	Number of deaths	Death-rate per mille based on the estimated population
-	1			2	3	4	5	6
				1935		Promote		1000
Cachar				565,673	18,946	33-49	14,702	25.99
Sylhet				2,879,099	91,858	31.91	65,492	22.74
Goalpara			***	914,702 1,004,955	29,933 21,008	32·72 20·90	22,595 15,679	24·70 15·60
Kamrup Darrang				605,336	18,714	30.92	13,285	21.9
Nowgong				578,818	9,633	16.64	6,865	11.8
Sibsagar				973,653	27,030	27:76	16,082	16.5
Lakhimpur		or In		752,600	22,776	30.26	15,023	19.9
Total	for the	Province	· · · ·	8,274,836	239,898	28.99	169,723	20.5
				1936				
Cachar				572,069	19,861	34.72	11,858	20.7
Sylhet				2,911,133	96,053	32.99	59,552	20.4
Goalpara Kamrup				921,926 1,012,698	29,014 19,055	31·47 18·82	20,286 11,319	22.0
Darrang				611,009	17,352	28.40	12,083	19.7
Nowgong				581,322	10,316	17.75	6,506	11.1
Sibsagar				984,279	25,678	26.09	17,712	17-9
Lakhimpur				759,814	22,375	29-45	16,285	21.4
Total	for the	Province		8,354,250	239,704	28.69	155,601	18.6
				1937	onner labor	and I - have		
Cachar				579,785	20,242	34-91	13,813	23.8
Sylhet			***	2,943,520	98,923	33.61	72,758	24.7
Goalpara			***	933,086	31,110	33-34	20,186	21.6
Kamrup				1,021,099	19,266	18-87	11,570	11.3
				615,456	17,896	29.08	13,439	21.8
Variang		***				200000000000000000000000000000000000000		12.1
Nowgong				586,096	11,784	20-11	7,701	
Nowgong Sibsagar						200000000000000000000000000000000000000		19.4
Darrang Nowgong Sibsagar Lakhimpur Total				586,096 990,705	11,784 25,910	20·11 26·15	7,701 19,240	13·1 19·4 22·6 20·8
Nowgong Sibsagar Lakhimpur				586,096 990,705 766,236	11,784 25,910 23,093 248,224	20·11 26·15 30·14	7,701 19,240 17,347	19·4 22·6
Nowgong Sibsagar Lakhimpur Total				586,096 990,705 766,236 8,435,983	11,784 25,910 23,093 248,224	20·11 26·15 30·14	7,701 19,240 17,347 176,054	20.8
Nowgong Sibsagar Lakhimpur Total		Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732	11,784 25,910 23,093 248,224	20·11 26·15 30·14 29·42 31·29 30·68	7,701 19,240 17,347 176,054 11,565 74,865	19·4 22·6 20·8
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara	for the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410	11,784 25,910 23,093 248,224 18,315 91,056 30,182	20·11 26·15 30·14 29·42 31·29 30·68 31·99	7,701 19,240 17,347 176,054 11,565 74,865 23,756	19·4 22·6 20·8 19·7 25·2 25·1
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup	 for the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076	19·4 22·6 20·8 19·7 25·2 25·1 14·6
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang	for the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774	20·11 26·15 30·14 29·42 31·29 30·68 31·99	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275	19·4 22·6 20·8 19·7 25·2 25·1 14·6 19·7
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong	 for the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076	19·4 22·6 20·8 19·7 25·2 25·1 14·6 19·7 11·2
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong Sibsagar	for the	 Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623 589,287	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774 9,792	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64 16·62	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275 6,635	19-4 22-6 20-8 19-7 25-2 25-1 14-6 19-7 11-2 16-4
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur	or the	 Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623 589,287 995,741	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774 9,792 25,971	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64 16·62 26·00	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275 6,635 16,429	19·4 22·6
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur	or the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623 589,287 993,741 770,744 8,504,722	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774 9,792 25,971 21,111 237,180	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64 16·62 26·00 27·39	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275 6,635 16,429 17,142	19·4 22·6 20·8 19·7 25·2 25·1 14·6 19·7 11·2 16·4 22·2
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur	or the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623 589,287 993,741 770,744 8,504,722	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774 9,792 25,971 21,111 237,180	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64 16·62 26·00 27·39 27·89	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275 6,635 16,429 17,142	19·4 22·6 20·8 19·7 25·2 25·1 14·6 19·7 11·2 16·4 22·2
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur Total Cachar	or the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623 589,287 993,741 770,744 8,504,722	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774 9,792 25,971 21,111 237,180	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64 16·62 26·00 27·39	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275 6,635 16,429 17,142	19·4 22·6 20·8 19·7 25·2 25·1 14·6 19·7 11·2 16·4 22·2
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur Total Cachar Sylhet	or the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623 589,287 993,741 770,744 8,504,722 1939 572,092 2,971,160 947,949	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774 9,792 25,971 21,111 237,180	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64 16·62 26·00 27·39 27·89 34·58 29·78 32·71	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275 6,635 16,429 17,142 177,743	19·4 22·6 20·8 19·7 25·2 25·1 14·6 19·7 21·6 22·2 20·9
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup	for the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623 589,287 993,741 770,744 8,504,722 1939 572,092 2,971,160 947,949 1,036,013	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774 9,792 25,971 21,111 237,180 19,784 88,478 31,006 19,973	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64 16·62 26·00 27·39 27·89 34·58 29·78 32·71 19·28	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275 6,635 16,429 17,142 177,743 12,363 60,795 23,627 11,998	19·4 22·6 20·8 19·7 25·2 25·1 14·6 19·7 11·2 16·4 22·2 20·9
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang	for the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623 589,287 993,741 770,744 8,504,722 1936 572,092 2,971,160 947,949 1,036,013 622,178	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774 9,792 25,971 21,111 237,180 19,784 88,478 31,006 19,973 18,414	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64 16·62 26·00 27·39 27·89 27·89	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275 6,635 16,429 17,142 177,743 12,363 60,795 23,627 11,998 12,819	19·4 22·6 20·8 19·7 25·2 25·1 14·6 19·7 21·6 4 22·2 20·9
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong	for the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623 589,287 995,741 770,744 8,504,722 1939 2,971,160 947,949 1,036,013 622,178 591,933	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774 9,792 25,971 21,111 237,180 19,784 88,478 31,006 19,973 18,414 14,004	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64 16·62 26·00 27·39 27·89 34·58 29·78 32·71 19·28	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275 6,635 16,429 17,142 177,743 12,363 60,795 23,627 11,998 12,819 10,088	19·4 22·6 20·8 19·7 25·2 25·1 14·6 19·7 21·6 4 22·2 20·9
Nowgong Sibsagar Lakhimpur Total Cachar Sylhet Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur	for the	Province		586,096 990,705 766,236 8,435,983 1938 585,410 2,967,732 943,410 1,028,775 620,623 589,287 993,741 770,744 8,504,722 1936 572,092 2,971,160 947,949 1,036,013 622,178	11,784 25,910 23,093 248,224 18,315 91,056 30,182 22,979 17,774 9,792 25,971 21,111 237,180 19,784 88,478 31,006 19,973 18,414	20·11 26·15 30·14 29·42 31·29 30·68 31·99 22·34 28·64 16·62 26·00 27·39 27·89 27·89 34·58 29·78 32·71 19·28 29·60 23·65	7,701 19,240 17,347 176,054 11,565 74,865 23,756 15,076 12,275 6,635 16,429 17,142 177,743 12,363 60,795 23,627 11,998 12,819	19·4 22·6 20·8 19·7 25·2 25·1 14·6 19·7 11·2 16·4 22·2 20·9

Registration continues to be carried out in the same areas of the Hill districts as before, and the result is shown separately in paragraph 12 of this report.

Births and birth-rates.—The birth-rate of the province for the year 1939 was 28:44, as compared with 27:89 in the preceding year. The table below shows the corresponding rates as reported from the other provinces. The birth-rates for this province have been calculated on the estimated populations of the years concerned, and it is presumed that the rates in the other provinces have been similarly calculated.

			Provinc	e			Birth-rate				
						101	1939	1938	1934-38		
WE SE	202, 12 202, 12		1	10,000 21,000	1 200		2	3	4		
Sile II	245.6		35	THE REAL OF	1111				2000		
Assam*				DAGGE			28.44	27.89	28.40		
Bengal				0.000			32.02	30-48	32.06		
Bihar							33.3	34.48	34.3		
Orissa							34.92	33.76	+		
Central Pro	vinces			***			38.28	43-19	43.21		
Madras							38.53	38-87	37.70		
Burma							35.34	34.59	33.33		
Bombay							43.16	42.22	40.77		
United Pro	vinces						36.26	36.79	36-90		
Punjab							40.82	49.50	9.31		
North Wes	Frontier	Province					27.98	30.56	31.34		
sind							20.88	19.93	20.03		

^{*} The rates are calculated on the estimated populations of the years concerned.

4. Birth registration, General.—The total number of births registered during the year under report was 242,428 as compared with 237,180 in the preceding year thus yielding a birth-rate of 28.44 per 1,000 of population against 27.89 in the previous year. The number of births registered in 1939 was higher than that recorded in 1938 by 5,248. The average birth-rate for the previous 5 years was 28.40. The highest birth-rate was recorded in the district of Cachar (34.58) followed by Goalpara (32.69), Sylhet (29.78), Darrang (29.60) and Sibsagar (28.51). These five districts returned birth-rates above and the other three districts below the provincial average (28.44). The lowest birth-rate was recorded in the district of Kamrup (19.28).

The highest birth-rate of 38·17 in December was followed by 38·10 in November. The lowest rate (20·52) was recorded in June. During the year under review births exceeded deaths by 78,309 or 9·18 per mille of population. In 1938, the excess was 59,437 births over deaths. The number of males to every 100 females born was 107. It was the same last year.

- 5. Birth registration in urban areas.—The total number of births registered in urban areas during the year 1939 was 6,635 as compared with 6.538 in 1938 and birth-rate per mille of population was 30.06 as compared with 30.45 in the preceding year. This apparent discrepancy is due to a large increase in the estimated population for 1939 as compared with that of the previous year. Another factor which is undoubtedly at work to produce this lower rate is the error due to defective registration of births, as may be gathered from the recorded rates given below. There are 27 towns, 12 of which returned rates above 30 per mille. The highest rate was recorded in the town of Gauripur (45.06) in the Goalpara district followed by Barpeta (44.40) in the Kamrup district, Srimangal (43.45) in the Sylhet district, Polashbari (37.28) in the Kamrup district, Nowgong (36.92) in the Nowgong district, and Dhubri (36.33) in the Goalpara district. Rates below 25 per mille were recorded from 7 towns, the lowest rate (8.67) being recorded in Doom Dooma the next lowest (21.06) being recorded in Sibsagar. The low birth-rate in Nalbari is due to the fact that it became a town in October, 1939 and birth-rate was calculated on the recorded births for three months of the year only. The birth-rate exceeded the death-rate in all towns. The birth-rate was lower than the death-rate in Golaghat (birth-rate 28.33—death-rate 34.36) and Doom Dooma (birth-rate 8.67—death-rate 9.69)
- 6. Birth registration in rural areas.—The total number of births registered in rural areas during the year under review was 235,793 or 28:40 per mille of population as compared with 230,642 and 27:82 respectively in the previous year. Considering the registration circles individually, the highest rate was recorded in the Gossaigaon circle (61:40) in the Goalpara district followed by North Lakhimpur (43:14) in the Lakhimpur district, Kalaigaon (42:96) in Darrang, Hailakandi (39:30) in Cachar, Dhakuakhana (38:43) in Lakhimpur and Lakhai (38:23) in Sylhet district. The circles reporting low birth-rates were Sorbhog (7:70) in Kamrup and Margherita (9:72) in Lakhimpur.

The low rates are probably due to defective registration.

[†] The average birth-rate is not available as the Province came into existence from 1st April 1936.

7. Deaths and death-rates.—The death-rate of the province for the year 1939 was 19:25 against 20:90 in the preceding year, and is compared below with rates of other provinces in India and Burma.

		AND AND CO.	Provin	ce			Death-rate	
			***			1939	1938	1934-38
1			1			2	3	•
Assam .					 	19-25	20.90	19.63
Th					 	21.85	26.36	24.37
met					 	23.0	23.59	23.3
0.					 	28.18	29.49	+
United Provi	nces				 	23.09	25.82	24.27
					 	25.26	23.46	24.12
**					 	25.09	25.73	22.68
n 1					 	27.55	30.47	28.43
Central Prov	vinces			101	 	31.07	41.07	36.03
Punjab					 	22-11	26.44	21.80
North West		Province			 	17-27	22.89	20.48
0:					 	11.55	12.40	12.34

* Figures are calculated on the estimated population.

† As the Province came into existence from 1st April 1936 so quinquennial average could not be given.

The appended table shows the number of deaths reported from each district in 1939, as com-

pared with that of 1938 :-

		Districts			1939	1938	Increase or decrease
		1			2	3	4
Cachar					12,363	11,565	+798
Sylhet	***				60,795	74,865	-14,070
Goalpara					23,627	23,756	-129
Kamrup				***	11,998	15,076	-3,078
Darrang					12,819	12,299	+520
Nowgong		***	***		10,088	6,635	+3,453
Sibsagar			***		18,455	16,429	+2,026
Lakhimpur					13,974	17,142	-3,168
	Te	otal		S	164,119	177,767	-13,648

The number of male deaths to every 100 female deaths was 109,

The number of deaths recorded under each of the main heads of mortality in towns in the years 1938 and 1939 are shown in the table below:—

Hea	d of me	ortality		1939	1938	Increase or decrease in 1939	
and or admin atom to	1				2	3	•
Cholera			PORT DEL		16	139	-123
0 11			Marine I	1000	51	8	+ 43
Processing and the second			and the second		1,020	1,002	+ 18
Dysentery and Diarrhœa					485	534	-49
n in the same of t			th ada at		493	495	- 2
					123	125	- 2
4.00 - 11			con Links		1,610	1,594	+ 16
			Total		3,798	3,897	- 99

^{8.} Death registration—General.—The total number of deaths registered in the Province during 1939 was 164,119 as compared with 177,767 in the preceding year, the death-rate per mille of population being 19:25 and 20:90 respectively. The number of deaths registered in 1939 was lower than that recorded in 1938 by 13,648. The quinquennial average was 19:63. The districts of Cachar, Sylhet, Goalpara, Darrang and Lakhimpur returned death-rates above and the other three districts below the quinquennial average. The highest death-rate was recorded in the district of Goalpara (24:92) followed by Cachar (21:61), Darrang (20:63) and Sylhet (20:46). The lowest rate (11:58) was recorded in the Kamrup district.

^{9.} Death registration in urban areas.—The total number of deaths registered during the year under report in urban areas in which registration is compulsory was 3,798 as compared with 3,897 in 1938 yielding a death-rate of 17·21 against 18·15 in 1938. The quinquennial average was 17·40. The highest death-rate was recorded in Golaghat (34·76). The increase is due to a large number of deaths recorded in this town under "Fevers", "Dysentery and Diarrhœa", "Respiratory diseases" and "All other causes". Other high rates were recorded in Hailakandi (22·70), Nowgong (22·49), Dhubri (21·61) and Tezpur (21·12). "Fevers" and "All other causes" were responsible for high rates in each of the towns of Hailakandi and Dhubri and "Fevers", "Dysentery and Diarrhœa" and "All other causes" in case of Nowgong and Tezpur. Low rates were recorded in Nalbari (8·32), and Sibsagar (3·93).

10. Death registration in rural areas. The total number of deaths registered in 1939 in rural areas was 160,321 or 19.30 per mille of population against 173,870 and 20.97 in the previous year. The quinquennial average was 19.69.

The number of deaths under each of the main heads of mortality in the years 1938 and 1939

is compared in the subjoined table :-

Head o	Head of mortality						Increase or decrease in 1939
		1			2	3	4
Cholera	0				3,004	11,768	-8,764
Small-pox Fevers					2,146 102,872	1,641 104,685	+ 505 -1,813
Dysentery and Diarrh					11,156	11,391	235
Respiratory Diseases Injuries					5,488 1,770	6,379 1,906	- 891 - 136
All other causes					33,885	36,100	-2,215
		Total			160,321	173,87	-13,549

As in the previous year the highest rate was reported from Gossaigaon circle (47.69) in the Goalpara district. Other circles reporting high rates were Kalaigaon (32.51) in Darrang, Golokganj (32-17), Mankachar (29-95) in Goalpara, Dalgaon (28-80) in Darrang and Lakhai (28.54) in Sylhet.

The cause "Fevers" was mainly responsible for the high death-rates in the areas mentioned

above. Other contributory causes was "All other causes".

The lowest rate was returned from Sorbhog (4·12) in the Kamrup district. Low rates were also reported from Boko (5·97) in Kamrup, Sonari (7·72) in Sibsagar and Hajo (7·89) in Kamrup.

11. Seasonal incidence of mortality.—Mortality was highest (24.02) in the month of January and lowest (16.55) in September, "Cholera" "Fevers" and Dysentery and Diarrhoea were responsible for the highest death-rate in January.

12. Registration in hill districts. - As in previous years births and deaths were registered in the

same limited areas in the hill districts.

The population of which according to the census of 1931 was 404,535 and the estimated

population for the year 1939 is 442,920.

The birth and death-rates in these areas in 1939 are compared in the table below with those

	Districts			39	1938		
Districts	population under registration	Birth-rate	Death-rate	Birth-rate	Death-rate		
1		2	3	4			5
Garo Hills Khasi and Jaintia Hills		204,506 69,235	26·05 23·48	18·81 16·97	27·37 25·07	20·08 16·95	
Lushai Hills		142,479	39.65	21:38	40.95	22.13	
Naga Hills		4,274	69.01	53-34	67.90	52.71	
Sadiya Frontier Tract		22,426	28 14	26.58	28.93	22.27	

(Birth and death-rates for the year 1938 have been recalculated on the estimated population.) From the above table it will be seen that the birth-rate in all the Hills Districts except Naga Hills was lower than the preceding year. The death-rates except those in the Garo Hills and

Lushai Hills were higher than that of the preceding year.

Garo Hills.-The total number of births and deaths registered in the Gero Hills during the year under report was 5,318 and 3,843 respectively as compared with 5,567 and 4,085 respectively in the previous year. The prominent diseases were malaria and Kala-azar and as usual, they were prevalent in the northern and western borders of the district. Twenty deaths from cholera were recorded against 188 deaths in the previous year. A total of 3,117 persons was inoculated with cholera vaccine. There were 9 deaths from small-pox against nil in the previous year. These deaths occurred near Mahendraganj on the south-western boundary of the district. The infection was probably imported from the Mymensingh district of Bengal. There were 1,753 deaths from fever during the year under report as compared with 1,016 deaths in the previous year. A total of 570 cases was treated in 1939 against 378 in the previous year. In the Tura Leper Colony 128 lepers were treated during the year under review. Seventy-five packets of quinine were sold in 1939 as compared with 62 in the previous year.

Khasi and Jaintia Hills.-The total number of births and deaths registered in the Khasi and Jaintia Hills during 1939 was 1,626 and 1,175 respectively during the year under review a total of 28 cases with 11 deaths from cholera were reported from rural areas, in the Shella Confederacy

on the border of Sylhet district.

A total of 27,176 cases of malaria was treated in the dispensaries of the district as compared with 23,815 in the year 1938. In 1939, six hundred and five boxes of quinine reinforced Cinchona Febrifuge tablets were sold against six hundred and nine boxes in 1938.

The total number of births and deaths registered in Shillong during 1939 was 750 or 30:71 per mille and 348 or 14.26 per mille respectively as compared with 763 or 31.83 per mille and 366 or 15.27 per mille respectively in the preceding year.

The table below shows the number of cases and deaths from infectious diseases recorded by

the Shillong Municipality in 1939 :

Disease	mely EEL may				Attacks	Deaths
Diphtheria	****				4	1
Enteric fever	sh business	d lowedens	I have not		27	4
Diarrhoea	Arment. Off.	Berg			1	1
Kala azar		bowed mid		100	3	2
Tuberculosis	Towns of the	1	down a	***	30	19
Other diseases		****			5	
ers .					100000	

Lushai Hills.-The general health of the district was fair during the year under review. There was no epidemic of cholera or small-pox in the district, only two sporadic cases of cholera were treated during the year. The people of the district suffer most from Malaria. A total of 916 packets of quinine was sold during the year as compared with 1048 in 1938. A total of 7 cases of syphilis was treated in 1939 against 32 in 1938. Fifty-four cases of yaws were treated during the year under review as compared with 88 in the previous year. A total of 11 cases of leprosy was treated against 8 in 1938.

Naga Hills.-The population of the Naga Hills is 178,844, but registration of Births and Deaths is carried out in the Kohima town and Dimapur rural circle the estimated population of which is only 4,274. The Birth and Death rates therefore are for this small population amounting to about 2.69 per cent, of the population of the district. The birth rate and death rate of the district was 69.01 and 53.3 respectively in 1939 as compared with 67.90 and 52.71 respectively in 1938. The district was free from cholera and small-pox as in previous year. Twelve cases with two deaths of cerebrospinal meningitis occurred in rural areas. During a survey of suspected Wazia area in the Mokokchung subdivision 23 cases of Kala-azar were detected and brought under treatment. Periodical survey of the areas by the Travelling Sub-Assistant Surgeon has been arranged. Eighty-two packets of quinine were sold during the year as compared with sixty-seven in the pre-

Malaria is endemic more or less throughout the district. Its incidence was particularly high during the rains, in the villages on the lower range and bordering on the plains. Anti-malaria work is confined to Dimapur. Treating the water collections with malariol is being carried out under Assam Medical Research Society. A Malaria Inspector with two coolies remained engaged for 8 months during the year. Larvae collected were sent to Shillong for identification.

Sadiya Frontier Tract.-The total number of births and deaths recorded in 1939 was 621 and 592 respectively. The district was free from cholera and small-pox during the year under report. Twelve lepers were treated in the Pasighat dispensary. Anti-malaria measure was carried out at Pasighat. Oiling was carried out throughout the year in all the breeding places once in ten days from 1st January to 15th February and once in a week during the remaining period except from 23rd April to 30th May when no oil was available on account of labour trouble at Digboi. Preventive measures was carried out by way of enforcing compulsory use of mosquito nets among the Assam Rifles people and explaining to the general public regarding the utility of mosquito nets. Bamber oil was issued to the night sentries to smear on the exposed part of their bodies to keep off mosquitoes. Jungles and shrubs in and near about the station were cleared. Pyrocide was spread twice in a week in 2nd Assam Rifles barracks and married lines. Seventy-two packets of quinine were sold as in the preceding year.

As a result of survey of Abor villages near Pasighat 145 suspected and 21 positive cases of Kala azar were detected. A temporary shed near the Pasighat Civil Hospital has been constructed

and the positive cases have been compelled to come under treatment.

Manipur State.—Births and deaths are not recorded in this State. A total of 639 attacks and 222 deaths from cholera and 6 attacks from small-pox were reported during the year under review. There were 11 attacks and 9 deaths from cerbrospinal fever. The disease was confined to Kukis. It is reported that evidence of Iodine deficiency is most marked among Kukis as is shown by their greater susceptibility to Goitre. Three packets of quinine treatments were sold as compared with eight in the preceding year.

13. Registration in Tea Gardens .- The table below shows the birth and death rates reported from the Tea Estates during the year 1939 as compared with those of the preceding year :-

		He H			Birth-r	ate	Death-rate			
		Districts			1000	1020	1020	NI SELECTION		
					1939	1938	1939	1938		
20		20 1					1 11 2	-		
		01-01			2	3	4	1		
10		CHANT		-			02			
15-0							00.00			
Cachar			***		37.45	34.95	22.08	22.35		
Sylhet			***		25.19	28.50	11.48	15.66		
Goalpara			0.0.01		44.76	44.12	33.20	31.54		
Kamrup					35.01	38.21	19.83	26.35		
Darrang					37.19	32.41	23.40	20.51		
Nowgong					27.60	21.50	16-94	15.15		
Sibsagar					41.58	42-28	24.05	28.76		
Lakihmpur			11 17	mo	36.71	34.01	22.89	27:69		
	Total				35.80	34.45	20-96	23.60		

The total number of births and deaths on Tea Estates in 1939 was 36,813 and 21,551 respectively as compared with 33,868 and 23,197 respectively in the preceding year. The largest number of deaths was recorded under "Other causes" (9,861) and this is followed by "Fevers" (3,989), "Dysentery and Diarrhoea" (3,683) and "Respiratory Diseases" (3,604). A total of 67 deaths from Cholera and 17 deaths from Small-pox was recorded during the year under report. There were 115 deaths from Kala-azar during the year against 133 deaths in the preceding year.

- 14. Registration on railways.—The total number of births and deaths within railway limits-during the year 1939 was 158 and 156 against 286 and 229 respectively in the preceding year. As in previous years the largest number of births and deaths was reported from Lakhimpur district. The highest mortality was recorded under "Other causes" (62) followed by "Respiratory Diseases" (54) during the year under review.
- 15. Mortarity according to sex.—A total of 85,429 males and 78,690 females died in 1939 as compared with 91,589 and 86,154 respectively in 1938. The death-rate for males was 18-98 and that for females 19-56. The rates are lower than the corresponding rates in 1938 by 1-42: and 1-90 respectively. They were less by 0-35 for males and by 0-41 for females than the rates of the previous quinquennium. The female death-rate exceeded the male death-rate in all the districts except Sylhet. The highest death-rate both for males and females was returned from Goalpara viz. (24-85) for males and 25-01 for females. The lowest death-rates for both the sexes were returned from Kamrup district. viz., 11-48 for males and 11-69 for females.
- 16. Mortality according to classes.—During the year the number of deaths according to classes was as follows:—

Hindus 92,923; Muslims, 59,757; Christians 1,696; Budhists 200; other classes 9 543. The death-rates per mille by classes are shown in the subjoined table:

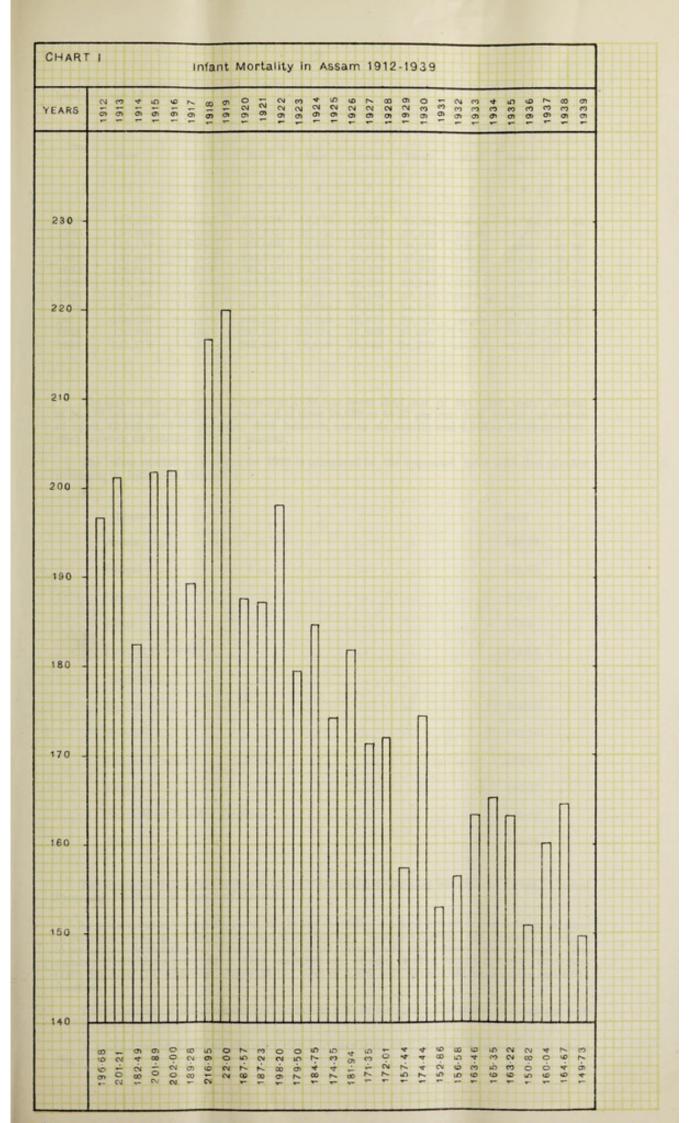
	Classes			Ratio of deaths per mille, 1939	Ratio of deaths per mille, 1938	Difference
index-tolk	1	Section of Section	127701. 12772101	2	3	
Hindus	 		*****	17-94	18.77	-0.83
Muslims	 		***	20.17	23:58	-3.41
Christians	 			20.14	22.90	-2.76
Budhists	 			17:01	11.41	+5.60
Other classes	 			33.44	31.82	+1.62

The district of Goalpara recorded the highest mortality rate both among the Hindus (21.66) and Muslims (25.32). The lowest rates (12.07) and (8.24) for these two principal communities were returned from the Kamrup district.

17. Mortality according to age.—The table below shows the rate of mortality by sexes in different age groups and the excess or defect of the female death-rates:—

Ame	periods		193	9	Excess or defect of
Act of the second second	perious		Male	Female	female death-rate
organism destrict	1		2	3	4
Under one year	100	0.00	 - 156.61	142:34	-14.27
1 and under 5			 23.42	22.25	- 1·17
5 and under 10			 10.37	10.17	- 0.20
10 and under 15			 6.90	6.28	- 0.62
15 and under 20	***		 8.78	10.81	+ 2.03
20 and under 30		***	 3.17	13.06	+ 4.89
30 and under 40	***	***	 11.16	14.40	+ 3.24
40 and under 50			 16.80	16:95	+ 0.12
50 and under 60	***		 29.21	29.56	+ 0.35
60 and upwards			 73.96	73.74	- 0.22
	Tot	al	 18-98	19.56	+ 0.28

It will be seen that the highest mortality was recorded amongst infants under one year of age and lowest amongst both males and females between 10-15 years of age.



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						11	11	4.			11								11		
																		301.68			
140.51	1		-					-								-					

The table below shows the deaths and death-rates amongst infants calculated on the births for last 10 years;—

		Births		De	eath of infar	its	Death-rate of infants				
Year	Male	Fema le	Total	Male	Female	Total	Male	Female	Tota		
1	2	3	4	5 100	6	7	8	9	10		
1929	116,177	108,417	224,594	19,374	15,987	35,361	166.76	147:46	157:44		
1930	110,400	104,345	214,835	20,166	17,310	37,476	182.66	165.75	174-44		
1931	115,139	107,867	223,006	18,465	15,624	34,089	160-37	144.84	152.86		
1932	122,845	115,474	233,319	20,398	16,918	37,316	166.05	146.51	156.58		
1933	126,882	119,236	246,118	21,903	18,328	40,231	172-62	153.71	163-46		
1934	125,740	117,016	242,756	21,893	18,250	40,143	174-11	155.96	165:36		
1935	123,668	116,230	239,898	21,015	18,140	39,155	169.93	156.07	163-22		
1936	123,839	115,865	239,704	19,630	16,522	36,152	158-51	142.59	150.82		
1937	128,233	119,991	248,224	21,350	18,377	39,727	166.49	153-15	160.04		
1938	122,346	114,834	237,180	21,074	17,983	39,057	172-25	156.60	164.67		
1939	125,573	116,855	242,428	19,666	16,633	36,299	156.61	142.34	149.73		

The infant mortality of the Province in 1939 was lower than that of any other year. A total of 36,299 infants died during the year and of these 16,889 or 46.52 per cent died within one month of birth, 12,302 or 33.89 per cent. died between one to six months and 6,764 or 18.63 per cent. died between six months to twelve months.

The infant mortality of Assam for 1939 is compared in the appended table with that of other provinces in India and Burma :--

Provinces							Rates
Assam							149-73
Bengal						***	146.65
Orissa		leader		***************************************	1		197:41
Bihar		m l	ometob o		***		155.3
Central Provinces		The vace	- Indiana	Andre No.			218.62
Madras		***	a detector	*** 2 (0)	0 091100		175.50
Burma		de follow		ne la boo	one and	·	203.85
Bombay		010,02	describes of	relation and	Arresta la	Caret De	152.70
United Provinces			***				139.45
Punjab		**** 12	mi limbl	1100			167-57
North West Front	ier Provi	nce	· · · · · · · · · · · · · · · · · · ·				130-52
Sind				···			105-75

The infant mortality rate in Assam for 1939 compares favourably with that of Orissa, Central Provinces, Madras, Bombay and Burma.

As pointed out in previous reports, the heavy mortality amongst infants is due in large measure to immaturity and ignorance on the part of the mother, improper feeding, and exposure of infants to insanitary surroundings. Vigorous educational measures in this respect are indicated. The number of still births recorded in 1939 was 8,896 viz., Hindus (4,425), Muslims (4,090), Christians (130) Budhists (10) and other classes (241). Out of 8,896 still births 4,881 were males and 4,015 females.

The percentage of still births to live births was 3.67 in the year under report as compared with 3.89 in previous year.

A chart showing the infant mortality rate in Assam from 1912 to 1939 is attached (see chart No. 1).

18. The defects in the registration of vital occurrences during the year under report in compulsory urban areas, as ascertained by the vaccination inspecting staff, are shown in the table

M	micipalitie	3		Unregister occurrence the year 19	s during	Recorde	100000000000000000000000000000000000000		tage of sions
				Births	Deaths	Births	Deaths	Births	Deaths
	1	racian	100.	2 6	3	SE 4 33	5	6	7
an and assist	10001	000.42	100		010	240	105	001.011	7 70
Silchar	212122	****	1000	11	4	340	215	3.23	1.86
Hailakandi	***	***	***			71	52	***	
Haflong		***	***	18	9	36	23	50.00	39.13
Sylhet		- 444	***		1	716	408	***	0.24
Karimganj	***			3	3	158	107	1.90	2.80
Maulvi Bazar	***					107	47	C. C. C.	
Srimangal			***	10		71	20	14.08	
Habigani			1000			250	141	010,50	1000
Sunamganj				2	4	169	81	1.18	4.94
Dhubri			***	25	8	385	229	6.49	3.49
C1		***	***	28	4	197	103	14.21	3.88
	***	***	***	24	10	277	120	8.66	8.33
Gauripur Gauhati	***	***	***	27	14	728	392	3:71	3.57
		***	***		19	770	100000		2.21
Barpeta	***	***	***	1	10.6	0.000	328	.13	***
Polashbari		***	2000	6	5	155	57	3.87	8.77
Tezpur	***	***	***	4	3	325	224	1.23	1.34
Mangaldai		***	***	3	3	58	31	5.17	9.68
Nowgong			d	15	0 11	435	265	3:45	4.15
Jorhat		***		13	2	306	183	4.25	1:09
Sibsagar				4	1	158	67	2.53	1:49
Golaghat				6	6	141	171	4.25	3.51
Nazira				1	7	82	43	1.22	16.28
Dibrugarh			-	10	2	459	348	2.18	.57
North Lakhimpur					7.1	69	43	200000	
Doom Dooma		***				17	19	Silina.	
TiLin	***	***		6		135	74	4.44	
	***	***	***	6					7.44
Shillong	***	***	***	6	5	750	348	-80	1.44

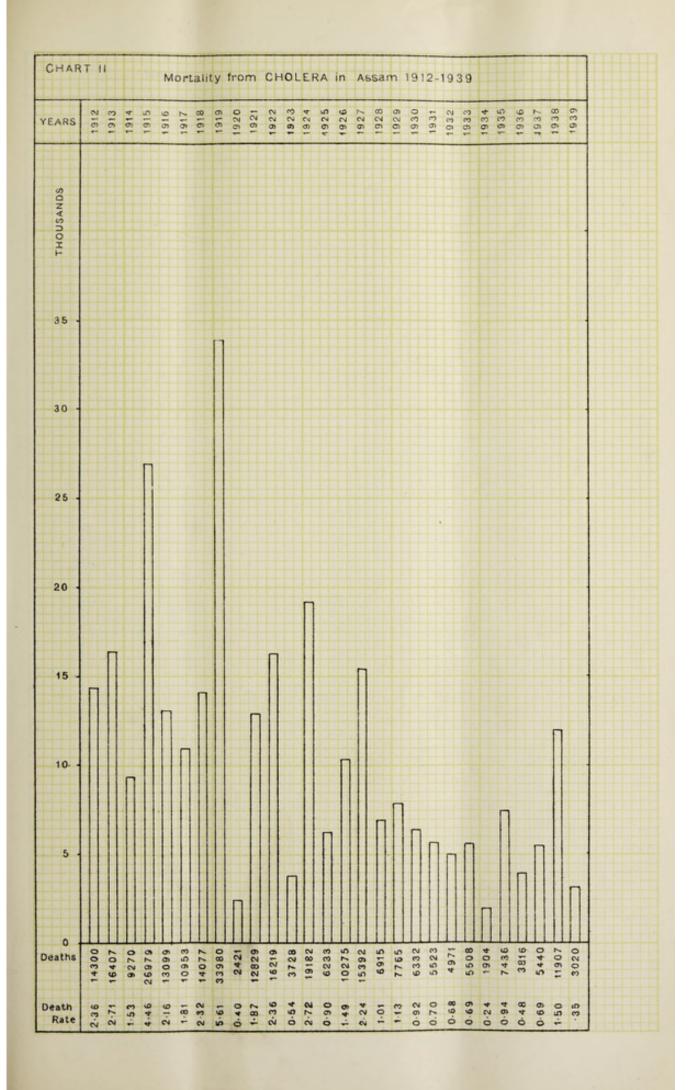
During the year 1939, 191 persons were prosecuted in the municipalities where registration is compulsory for failing to report vital occurrences and 121 were convicted. The fines imposed amounted to Rs.103-12. No omissions were detected in the towns of Hailakandi, Maulvibazar, Habiganj, North Lakhimpur and Doom Dooma.

19. Inspection of village registers of vital statistics .- The vaccination inspecting staff verified the records 43,160 births and 26,676 deaths as compared with 43,048 and 24,204 respectively in the previous year. The percentage of omissions detected was 3.56 in respect of births and 2.36 in respect of deaths as compared with 2.07 and 1.18 respectively in 1938. As in previous years, the district of Sylhet stood first with 16,054 entries tested, followed by Darrang with 11,039 and Nowgong with 9,536. Sibsagar stood last with 3,763 entries tested during the year. Out of a total of 242,428 births and 164,119 deaths only 43,160 and 26,676 respectively were verified, i.e., percentages of 17.80 and 16.25 respectively. More extensive verification of vital statistics is necessary.

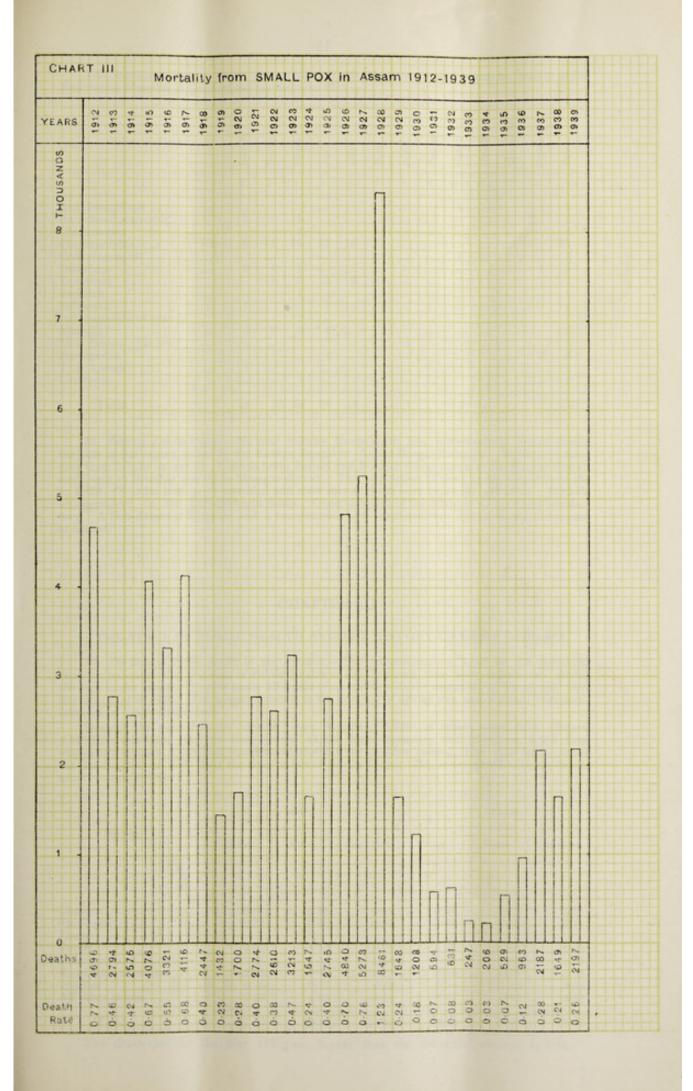
20. General accuracy of vital statistics and improvement made during the year.-During the year under report there was no change in the agencies engaged in the collection of vital statistics either in urban or rural areas. As usual, weekly epidemic reports and monthly returns of vital statistics were regularly published in the official Gazette and in certain papers for the information of the general public.

21. Emigration and Immigration.—The statement below shows the number of labourers entered in Assam during 1939 by different routes :-

Month								grants entering Assam during 1939
January	neste di	****		mm*** 05	Of other land			7,824
February		***	***		***	***		10,325
March							***	7,902
April								4,120
May		TWO IS DOLLAR.	***	- 1000	111.535		11100	1,798
June								612
July	17300	en line	ni essiano	ur šiškol	to diffe to	11 633	and the	271
August	Willey!	1 (61)	History		1 11 11	***	90.000	114
	400	2 111	Dist. Sell.	RECO	***	***	1	
September	***		***	***	***	***	***	46
October					***			68
November						***		86
December			***			***		548
							170	OF REAL PROPERTY.
	Tota	1			Contract.			33,714



RESTRICTED FRANCISCO FRANC



The statement below shows the number of sick labourers treated month by month in the Emigration Hospital at Gauhati during the year 1939:—

Names of diseases		January	February	March	April	May	June	July	August	September	October	November	December	Total
1	100	2	3	4	5	6	7	8	9	10	11	12	13	14
Ankylostomiasis										1		1		1
Broncho-Pneumonia		1		1					***					2 2
Chicken-pox	2	***		2			***							
Conjunctivitis		6	11	16	22	16	***	***	***	***				71
Colic-Intestinal									***	1	***			1
Diarrhœa		2	1	1		***							1	5
Dysentery		***	1	2	2	2	***	110	***	***		***	***	7
Enteritis			***	1					***				***	1
nfluenza		1			1						***		***	2
nflammation of glands				1			***		***				***	1
Malaria		5	9	4	4								***	22
kin disease (Lichen)				7				1	***				***	8
Pneumonia		***	***		1	***							1	2
r. B. Lungs		1						***		***				1
Jrticania				1										1
Total		16	22	36	30	18		1		2			2	127

22. Railway Labour Camps.—No new railway construction was undertaken in Assam during the year under report either by the Eastern Bengal or Assam-Bengal Railways. There were however three labour camps viz., Dittockcherra Ballast and Boulder siding camps in the Cachar district and camp at Behubar quarry in Sibsagar district. The population of these camps varied from 482 to 1,228. Kutcha huts were provided and their surroundings were kept neat and clean. Malaria was prevalent in the Dittockcherra camp. General health of the laboures was not very satisfactory. A Sub-Assistant Surgeon and a compounder were employed for treatment and prevention of disease.

CHAPTER III

THE STATE OF PUBLIC HEALTH AND THE HISTORY OF CHIEF DISEASES

23. The State of Public Health in the Province.—The information recorded in the preceding chapter indicates that the state of Public Health in the Province was fairly satisfactory during the year under report. Deaths under all heads of mortality with the exception of 'Small-pox' were less than that in 1938. The largest decrease in the number of deaths was under head "Cholera" followed by "All other causes".

During the year 164,119 deaths were recorded, 3,020 of which were from cholera, 2,197 from small-pox, 103,892 from fevers, 11,641 from dysentery and diarrhea, 5,981 from respiratory diseases, 1,893 from injuries and 35,495 from all other causes. The table below shows the death-rates per mille from the chief causes of deaths during 1939, as compared with the decennium ending 1938:—

		1939			1929-38		
Diseases	Urban	Rural	Combined	Urban	Rural	Combined	
to plane to print of	2	3	on Office by	5	6	7	
Cholera	0.07	0.36	0.35	0.34	0.72	0.71	
Small-pox Plague	0.23	0.26	0.26	0.09	0.12	0-11	
Fevers	4.62	12:39	12:19	4.58	11.82	11.63	
Dysentery and Diarrhœa	2.20	1.34	1.36	2.06	1.17	1.19	
Respiratory Diseases	2.23	0.66	0.72	2.16	0.69	0.73	
Injuries	0.56	0.21	0.22	0.54	0.23	0.24	
All other causes	7.29	4.08	4.16	6.47	3.95	4.01	
Total	17:20	19-30	19.25	16.24	18.69	18.63	

The death-rate for the year 1939 was higher than the decennial average by 0.62.

24. Cholera.—The number of deaths from cholera reported during the year was 3,020 against 11,907 in the previous year. The death-rate per 1,000 of population was 0.35 as compared with 1.50 in the preceding year. The decennial average was 0.71 as shown in the table below:—

Districts					Death-rat	e per mille
					1939	1929-38
Cachar					0.26	0.49
Sylhet					0.80	1.12
Goalpara	***		***	***	0.05	0.75
Kamrup				***	0.22	1.06
Darrang					0.03	0.46
Nowgong		***			0.13	0.13
Sibsagar			21	at a	0.04	0.14
Lakhimpur					0.01	0.07
			Total		0.35	0.71

During the year under report there was no serious epidemic of cholera in any district. The largest number of deaths (1,470) occurred in January and the lowest (11) in September. The highest death-rate (0.80) from this disease was reported from the Sylhet district followed by Cachar (0.36) and Kamrup (0.22). Deaths from cholera were reported from 88 out of 149 registration circles and from 1,192 out of 28,333 villages. Deaths from cholera were reported from 8 towns. The highest number of deaths in towns (3) was reported from each of the towns of Silchar and Barpeta. The rural circle of Sulla in the Sylhet district reported the highest death-rate (3.74). The other circles in the district reporting high death-rates were Sunamganj (2.27), Dharampassa (2.18), Derai (1.95) and Chhatak (1.67),

The amount of cholera vaccine issued in the province since 1929 is shown below :-

1929	day-				 356,047
1930				***	 220,532
1931			-		 170,820
1932	***	and the second			 169,317
1933			***		 451,884
1934		-			 171,117
1935					 475,955
1936					 368,898
1937					 425,443
1938					 986,568
1939					 240,476

During the year under review 244,704 doses of bacteriophage were issued. A chart showing the provincial mortality from cholera from 1912-1939 is attached (See Chart No. II).

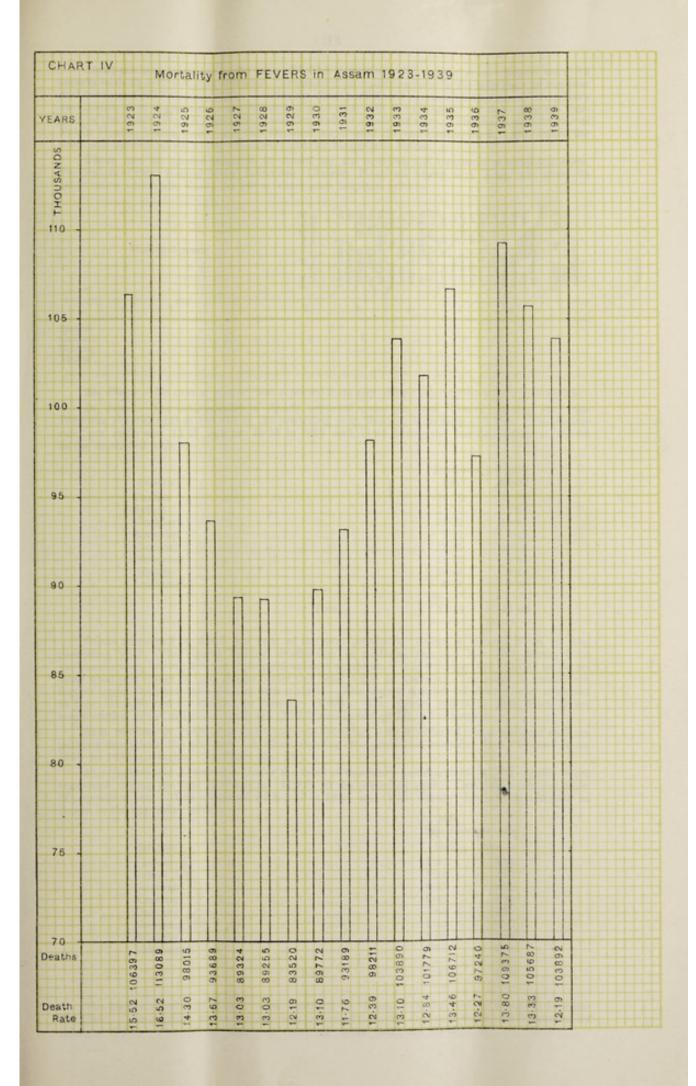
25. Cholera in Tea Estates.—In 1939, a total of 67 deaths from cholera was reported from tea estates against 150 in the previous year. The corresponding ratios per mille being 0.07 and 0.14 respectively. The largest number of deaths was reported from Cachar district (40).

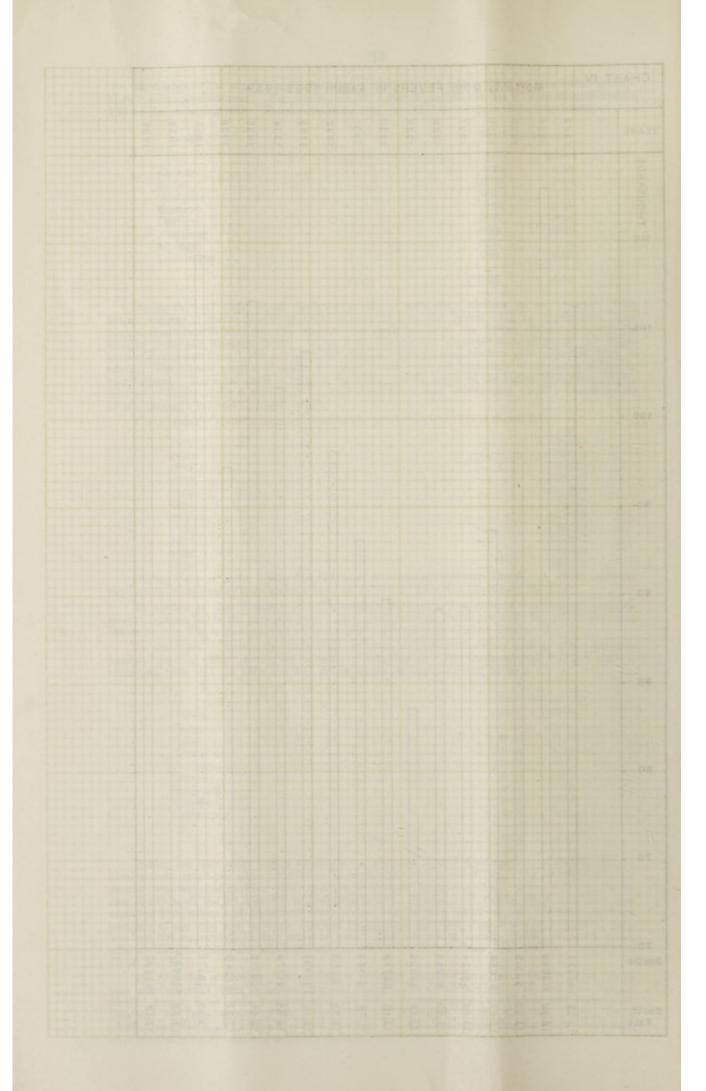
26. Small-pox.—During the year 1939, a total of 2,197 deaths from small-pox was reported against 1,649 in 1938 showing an increase of 548 deaths. The death-rate was 0.26 per mille as compared with 0.21 in 1938 and 0.11 the decennial average as noted below:—

					Death-ra	te per mille
Districts					1939	1929-38
Cachar	der bitabbe	L Jabo		editorib ett.	101	0.07
Sylhet	THE PERSON		Healt .	mercia mond 50	0.60	0.16
Goalpara	about the conf.	to Recent	1 20	bux astropri us	0.01	0.14
Kamrup	1 15 OCH 1	abate.edus	al last	ten biede oderen	0.13	0.17
Darrang					0.13	0.06
Nowgong	***				0.16	0.09
Sibsagar	***	***			0.08	0.04
Lakhimpur					0.01	0.06
			Total		0.26	0.11

During the year under review small-pox was reported from 878 villages out of 28,333 villages. Deaths from small-pox were recorded in 70 registration circles out of 149. The largest number of deaths was recorded in May (358) and the smallest in November (71). Sylhet with its death-rate (0.60) heads the list followed by Nowgong (0.16). A total of 51 deaths from small-pox was reported from towns and 2,146 from rural circles. In the year under report 349 children under one year of age and 530 between one and ten years of age died of small-pox as compared with 146 and 284 respectively in the previous year. The remaining deaths (1,318) occurred among adults. Chart showing the provincial mortality from small-pox from 1912-1939 is attached (See Chart No. III).

27. High rate of mortality from small-pox in individual towns and rural areas.—Deaths from small-pox were reported from Sylhet and Barpeta towns. The death-rate was 1·21 and 1·27 respectively. Among rural circles Fenchuganj in the Sylhet district reported the highest death-rate (4·36) followed by Jagannathpur (3·18), Sylhet (2·32) and Biswanath (2·29), Chhatak (1·58), Derai (1·43), and Balaganj (1·34) all in Sylhet district. It will be observed that the high death-rates of small-pox is solely confined to Sylhet district.





Small-pox was prevalent in the town of Sylhet throughout the whole year. There were 92 attacks with 28 deaths during the year. It assumed an epidemic form in the later part of the year and continued till February 1940. Besides the three permanent vaccinators four more temporary vaccinators were appointed by the Municipality to cope with the situation. A Sub-Assistant Surgeon of the Public Health Department was deputed for small-pox duty. The Assistant Director of Public Health, Surma Valley and Hill Division, supervised the vaccination work, I also visited the town and offered advice to the Additional District Magistrate, Sylhet.

There are no special hospitals in Assam for the isolation and treatment of small-pox cases. Particulars of cases treated in the Infectious Diseases Hospitals where such exist, are given in table below which also shows the towns where such hospitals exist:—

	Municipal to	owns		No. of small-pox patients treated	Vaccinated as evidenced by presence of one or more vaccination cicatrices	Stated to have been successfully vaccinated but no vaccination cicatrices present	Stated to be vac- cinated but vac- cinated unsuc- cessfully and no cicatrices present	Previously un-vac- cinated but vac- cinated during the incubation of Small-pox	Stated to have been successfully vaccinated
al Today	1	In the State of th	ALAINA	2	3	4	5	6	7
Dhubri Gauhati Shillong	distribution in the last of th		and the	3	i		2	::	12.
Tezpur				de Maon	albush p	mothern	1.0	**	nustral A

28. Plague.-No case of plague was reported from any district during the year under review.

29. Fevers.—The total number of deaths reported under the head "Fevers" during the year 1939 was 103,892 against 105,687 in the preceding year, showing a decrease of 1,795. The death-rate per mille was 12·19 against 13·33 in 1938 and 11·63 during the last decennium as shown in the appended table:—

					Death-rate	per mille
Districts					1939	1929-38
Cachar	10.500		ugleun	mile show the	10.70	10.38
Sylhet					11.18	11.65
Goalpara					23.37	19.81
Kamrup				***	9.01	9.38
Darrang		***	Last m		12.55	12.56
Nowgong					13.42	9.63
Sibsagar					10.46	9.24
Lakhimpur					8.73	9.40
			Total		12.19	11.63
					-	-

Fevers accounted for 63·30 per cent, of the total provincial mortality against 59·46 in the preceding year. The figures include deaths due to malaria, kala azar and also deaths from various diseases, having fever as their predominant symptom. It is therefore not possible to determine what percentage of total deaths under this head is due to malaria. The point is considered further under the paragraph dealing with malaria. The largest number of deaths was recorded in July (10,539) and the smallest in February (7,034). The highest mortality rate from fevers was recorded in the district of Goalpara (23·37) and lowest (8·73) in Lakhimpur.

As in previous years Quinine and Cinchona Febrifuge were distributed free to indigent malaria patients throughout the province. A Chart showing the provincial mortality from "Fevers" from 1925 to 1939 is attached (see Chart No. IV).

30. Dysentery and Diarrhoea.—Under the head of dysentery and diarrhoea 11,641 deaths were registered during the year 1939 against 11,925 in the preceding year. The death-rate per mille of population was 1.37 as compared with 1.50 in 1938 and 1.19 during the last decennium as shown in the appended table:—

					Death-rat	e per mille
Districts					1939	1929-38
Cachar					2.37	1.82
Sylhet					1.24	1.07
Goalpara					0.35	0.22
Kamrup			***		0.43	0.49
Darrang	***	***	***		1.69	1.57
Nowgong			***		1.18	0.57
Sibsagar	***		***	***	2.36	2.14
Lakhimpur	***		***	***	2.21	2.23
		Т	otal		1.37	1.19

The highest number of deaths was recorded in January (1,278) and the lowest in September (748). The highest mortality rate was reported from the Cachar district (2.37) followed by Sibsagar (2.36). The lowest rate was returned from Goalpara (0.35).

- 31. Respiratory Diseases.—The total mortality from Respiratory diseases during the year under review was 5,981 against 6,874 in 1938. The corresponding death-rates for the two years were 0.70 and 0.87 respectively. The quinquennial average was 0.79. The highest mortality was recorded in April (571) and the lowest in September (358). The highest death-rate was recorded in the district of Lakhimpur (1.66) followed by Cachar (1.38). The lowest rate was returned from the Goalpara district (0.24).
- 32. Influenza.—Influenza occurred in sporadic form during the year. The mortality from influenza is included under "Fevers". The total number of deaths from this disease during 1939 was 590 against 628 in 1938. The death-rates per mille of population were 0.07 for both the years.
- 33. Injuries and Other Causes.—During the year under report 1,893 deaths from "Injuries" and 35,495 deaths from "Other causes" were registered as compared with 2,031 and 37,694 respectively in the preceding year. The death-rates per mille of population were 0.22 and 4.16 respectively in 1939 against 0.25 and 4.75 in the preceding year.

Cerebro-spinal fever.—During the year there were 23 cases of cerebro-spinal fever, viz., 12 in Naga Hills and 11 in Manipur State, and 11 deaths from cerebro-spinal fever were reported from 2 districts, viz., Manipur State (9): and Naga Hills (2) against 235 deaths in the previous year.

2 districts, viz., Manipur State (9); and Naga Hills (2) against 235 deaths in the previous year.

Typhoid Fever.—There were 59 deaths from Typhoid Fever reported from 13 towns during the year under report, viz., Dibrugarh (11), Silchar (8), Sibsagar (8), Dhubri, (7), Tezpur (7), Sylhet (5), Karimganj (3), Gauhati (3), Jorhat (2), Tinsukia (2), Gauripur (1), Barpeta (1) and Nowgong (1).

34. Taws.—A total of 3,424 cases of yaws was treated in 1939 as compared with 3,234 cases treated in the preceding year. In Nowgong district one new centre was opened and two Sub-Assistant Surgeons received training in the diagnosis and treatment of yaws. In Kamrup district two Medical Officers of Gauhati Local Board and one Sub-Assistant Surgeon of the Public Health Department were trained in the diagnosis and treatment of yaws.

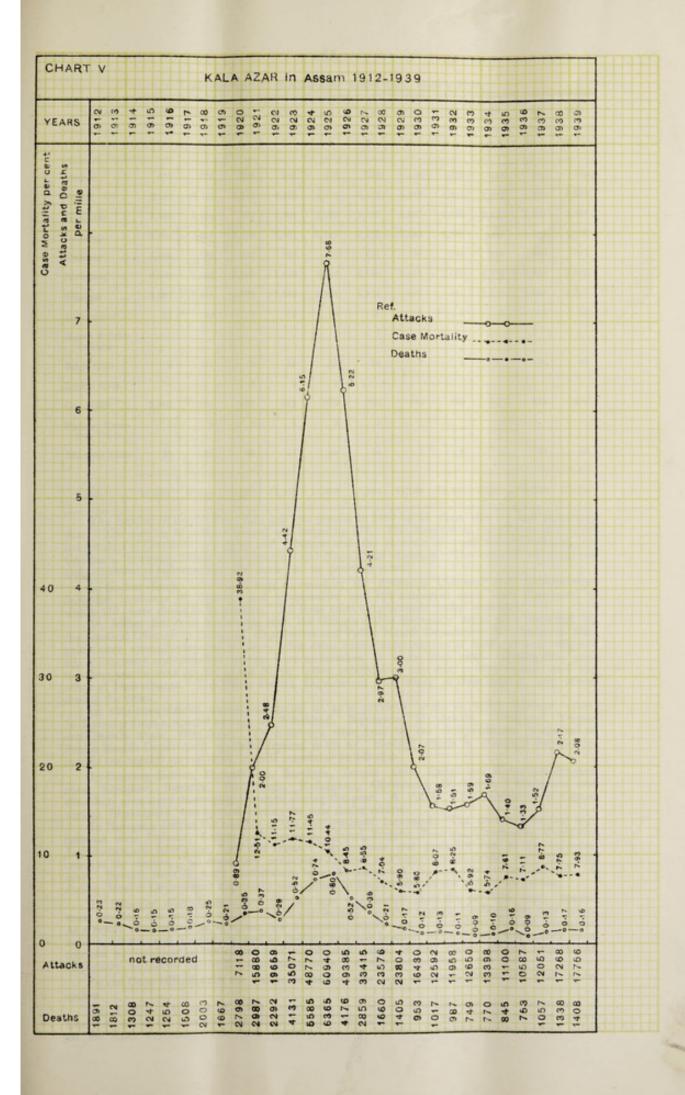
35. Minor eye complaints.—A total of 18,264 cases of minor eye complaints were treated in 1939 by the Public Health Department Dispensaries as compared with 9,700 in the previous year. No

special reason can be attributed to the large increase.

- 36. Naga-sore.—During the year under review 456 cases of Naga-sore were treated in the Kamrup district as compared with 25 cases in the previous year. The disease broke out in an epidemic form throughout the district. Additional moving treatment centres had to be engaged to cope with the outbreak.
- 37. Kala-azar.—The tables show the number of deaths and cases of kala-azar treated from 1929 to 1939:—

Table showing deaths from Kala-azar from 1929 to 1939

400					11/2/2012/						
Districts	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
of all direct reals	2	3	4	5	6	7	8	9	10	11	12
Cachar	3	2	-4	4	2	6	7	2	4	5	8
Sylhet	429	74	246	296	146	227	260	173	207	268	152
Goalpara	135	112	121	122	92	61	100	84	135	106	205
Kamrup	180	102	160	152	129	151	176	61	77	104	58
Darrang	241	185	222	155	167	136	91	155	256	256	181
Nowgong	178	132	129	132	110	78	52	121	196	101	170
Sibsagar	87	58	71	78	64	84	101	99	126	447	553
Lakhimpur	1	2		2	4						1
Khasi and Jaintia		·				4		10	5	5	12
Hills. Naga Hills	1	1		1	1						9
Lushai Hills		91		1					narrad I		
Garo Hills	149	84	64	43	34	23	58	47	51	46	47
Sadiya Frontier Tract.	1			1				1			
Manipur State		1									
Total	1,405	953	1,017	987	749	770	845	753	1,057	1,338	1,39



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Table showing cases of Kala-azar treated from 1929 to 1939.

Districts	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
1	2	3	4	5	6	7	8	9	10	11	12
Cachar	470	376	370	391	472	529	478	574	445	716	669
Sylhet	9,162	6,726	5,512	4,719	4,210	4,612	3,869	3,645	3,672	4,622	4,029
Goalpara	2,389	1,439	992	1,089	1,159	1,107	1,245	1,276	2,046	2,541	2,989
Kamrup	2,598	1,814	1,690	2,061	2,223	2,197	1,465	1,309	918	1,189	1,138
Darrang	1,399	1,106	942	665	757	876	738	636	514	989	861
Nowgong	2,433	1,440	1,057	1,075	1,663	1,726	1,651	1,471	2,317	3,265	3,875
Sibsagar	2,387	1,495	1,095	1,269	1,251	1,372	938	864	1,396	3,050	3,315
Lakhimpur	23	23	3	12	13	18	12	6	2	13	15
Khasi & Jain- tia Hills.					1	5					
Naga Hills	9	21	5	16	12	14	7	5	15	39	47
Lushai Hills			4	2	1						
Garo Hills	2,905	1,905	882	605	850	927	690	793	717	824	808
Sadiya Fron- tier Tract.	3	2	2	1	2	1	lo obs	Shipp a	2	100	SIR YA
Manipur State	35	83	38	53	36	14	7	8	7	20	10
Total	23,894	16,430	12,592	11,958	12,650	13,398	11,100	10,587	12,051	17,268	17,756

The number of deaths from kala azar was greater in 1939 by 58 than that of the preceding year. The number of patients treated was larger by 488. The increase in deaths is shared by the districts of Goalpara, Nowgong and Sibsagar and the increase of cases treated is shared by Goalpara, Nowgong, Sibsagar, Lakhimpur and Naga Hills districts. The method of diagnosis and treatment of kala azar was the same as in previous years.

In Cachar district 611 villages were surveyed by the Epidemic Unit staff and Sub-Assistant Surgeons in charge of hospitals and dispensaries and 469 suspected cases were discovered of which 110 were found to be positive. All these cases were brought under treatment.

In Sylhet district as in previous year, the villages within dispensary areas were surveyed by the Medical Officers in charge of dispensaries and Public Health Department Sub-Assistant Surgeons were specially deputed to survey other areas where recrudescence of kala azar was suspected. Extensive and detailed surveys were undertaken to trace fresh cases. During the year two dispensaries were opened in the North Sylhet subdivision, viz., one at Moglabazar and the other at Tuakulbazar. The Public Health Department Dispensary at Dharmaghar was closed during the year.

In Goalpara district, survey was carried on as in previous years to detect kala azar cases. In Kamrup district, special surveys of Polashbari, Bojragaon, Mandakata, Dhupguri, Tezpur and Beltola areas were done. These surveys were done by the Sub-Assistant Surgeons of Public Health Department specially deputed to do so. Medical officers in charge of dispensaries carried out regular survey work in their respective jurisdiction.

In Darrang district, Dumnikuchi, Barchola, Tezpur area, Rangamati Naharbari-Borgaon area, Sipajhar, Sakhare, Harichinga, Kulaigaon, Goraimari, Dhekiajuli, Majikuchi and Charduar area were thoroughly surveyed during the year. A Public Health Department dispensary at Bhakatpara was opened during the year under review.

In Nowgong district the number of kala azar patients increased. The centres showing high increase were Dubaka, Kampur, Dharamtul, Jajari, Borjoha, Kuorital, Chapanalla, Bhurgaon, Jagibhakatgaon, Morigaon, Sadr and Hojai. The increase was probably due to the recrudescence of the disease, All dispensary areas were surveyed and resurveyed to detect even the early cases. Special surveys were undertaken in areas suspected or reported to be infected. A Public Health Department dispensary was opened at Borjuri during the year under review.

In Sibsagar district, incidence of kala azar was higher than the previous year. Special stress on kala azar problem in the district particularly in the Golaghat subdivision was given. As a result of intensive surveys four new treatment centres were opened at Silikuti, Henchoa, Bebijia, Likson and Bhogagaon and an in-door kala azar hospital with 50 beds was under construction at Golaghat for bed-ridden and complicated cases. A new Public Health Department dispensary at Lakwa in the Sibsagar subdivision was also opened during the year.

In the Garo Hills district the incidence of kala azar was stationery during the year under review.

38. Leprosy.—A total of 4,275 lepers was treated in leper asylums and other centres of treatment under the Medical and Public Health Departments, of these 1,068 lepers were treated on the leper asylums, wards and colonies. In the Medical Department Dispensaries, 1,968

out-patient lepers received treatment. The Public Health Department dispensaries treated 1,239 lepers during 1939, viz., 718 in Sylhet, 56 in Goalpara, 161 in Kamrup, 142 in Darrang, 155 in Nowgong and 7 in Sibsagar. The number of outdoor clinics in the Public Health Department for the treatment of leprosy during the year was 66 against 62 in the proceding year. Sub-Assistant Surgeons of the Public Health Department undertake leprosy surveys in conjunction with kala azar and yaws surveys. No special leprosy survey was undertaken during the year.

Assistant Surgeons of the Public Health Department carried out propaganda work with the aid of magic lanterns during the year under report as usual. Steps were taken to begin the organisation of a scheme of special Leprosy work in the province under the auspices of the British Empire Leprosy Association. A special leprosy Officer will be trained and appointed for this work. It is hoped that the scheme will be in working during the next year, when advantage will be taken of the proposed visit of Dr. Isaac Santra to Assam.

CHAPTER IV EPIDEMIOLOGY

39. The number of deaths from cholera during the last ten years was as follows :-1929 ... 7,765 1930 ... 6,332 *** 5,523 1931 ... 0... ... 1932 ... 4,971 *** 1933 ... 5,508 ... *** 1934 ... 1,904 ... 7,436 1935 1936 ... 3,816 ... 1937 ... 5,440 *** 1938 ... 11,905 ... 3,020 1939

There was no serious epidemic of cholera in any district during the year under review but only sporadic cases occurred. In the Sylhet district alone 2,390 persons died from cholera out of 3,020 persons died in the whole province. Cholera was reported from 905 villages in this district.

CHAPTER V FAIRS AND FESTIVALS

40. In the Cachar district two melas, viz., Sidheswar and Bhuban Hill melas were held as in previous years. Another mela was held at Lala during the year under report. About 8,000 people visited the Sidheswar mela which lasted for a fortnight. The Bhuban Hill mela which lasted for 3 days was attended by 5,000 people and the mela at Lala was attended by 1,000 people and it lasted for a week.

A section of an epidemic unit attended the Bhuban Hill mela while the Sidheswar mela was attended by the Sub-Assistant Surgeon, Katigora with a compounder. The mela at Lala was attended by the Local Board Doctor in charge of Lala Dispensary. Satisfactory sanitary arrangements were made in all the places and no case of any epidemic disease was reported from any of them. About 5,000 people attended the Panathirtha mela on the occasion of Baruni in the Sunamganj subdivision of the Sylhet district. A section of an epidemic unit attended the mela. The Subdivisional Medical Officer, Sunamganj, also supervised the sanitary arrangements of

There was a gathering of about 8,000 people in the town of Dhubri on the occasion of Brahmaputra bathing festival. Suitable sanitary arrangements were made by the Dhubri Municipal Board. A medical camp was stationed in the mela ground and the Health officer was deputed to look after the sanitary arrangements and to render medical aid. Temporary latrines were constructed and arrangements were made for the supply of piped water in the Town for the whole day. Another mela was hold at Bogribari which was attended by 3,000 to 4,000 people. Necessary sanitary arrangements were made and there was no epidemic of any kind.

The annual Astami Snan mela was held at Silghat in the Nowgong district where about 12,000 people assembled. In addition to the Sub-Assistant Surgeon, Silghat, another Sub-Assistant Surgeon of the Public Health Department was deputed. The Assistant Surgeon of the Public Health Department also visited the mela.

In the Kamrup district, the Darranga fair was held, as usual. During the Hindu festival 'Ambubachi' a large gathering of pilgrims assembled at Kamakhya Hills. A Sub-Assistant Surgeon of the Epidemic Unit with Disinfectant Carriers was deputed to render medical aid as in previous

As in previous year there was a pilgrimage at Parasuram Kunda on the 14th and 15th January in the Sadiya Frontier Tract. The Sub-Assistant Surgeon, Denning dispensary was deputed to look to sanitation and to treat cases.

CHAPTER VI URBAN SANITATION (Including notified areas) MUNICIPAL WATER-SUPPLIES

41. There were 18 Municipal Boards and 10 Town Committees as in the previous year. Their total income was Rs.11,58,372 against Rs.13,03,409. A sum of Rs.5,60,930 or 48.42 of the total income was spent on sanitary works, original and recurring, as compared with Rs.5,79,735 or 44:47 per cent. in the preceding year. As usual, the Director and Assistant Directors of Public Health inspected the municipalities and Small Towns and offered advice on health matters. As pointed out in inspection notes, much still remains to be done in every direction in the matter of improving sanitary conditions in the towns of the Province.

Public Works Department incurred an expenditure of Rs.11,565-7-0 on the maintenance of water-supplies, drainage and town improvement as compared with Rs.7,079-10-0 in the

preceding year.

CHAPTER VII

RURAL SANITATION

42. A sum of Rs.1,86,816 was spent by the Local Boards on public health measures during the year 1939 against Rs.1,77,479 in the preceding year.

The bulk of the population of Assam lives in rural areas, consequently the health and prosperity of the people of these areas is a matter of vital importance. Local Boards should pay special attention to the provision of adequate and safe water supplies for villages. Until this is done no material reduction in the incidence of water-borne diseases can be expected. The public health measures which are extensively carried out in rural areas are protection against cholera by inoculation, the use of bacteriophage in the treatment of cholera cases and protection against small-pox by vaccination. Kala azar treatment measures continue to be carried out on the lines similar to those employed hitherto. Tablets of quinine Reinforced Cinchona Febrifuge for the treatment of Malaria are sold in all villages post offices and through other accredited agents. Quinine and Cinchona Febrifuge are also supplied free to indigent persons in all districts. Treatment of Yaws, Leprosy, Malaria, Influenza, Minor Eye complaints, Dysentery and Diarrhoea is also undertaken by Public Health Department dispensaries in the rural areas. Adulteration of foodstuffs is reported to be increasing in the Province. This can be controlled by strict supervision, by regular inspection and submission of samples to the Public Analyst for analysis and the inflicting of adequate punishment in all cases where unwholesome food is sold for consumption and where adulteration of articles of food is reported by the Public Analyst.

It is hoped that Local Boards will take more active and deterrent action to prevent adulteration.

CHAPTER VIII

43. Malaria.—Malaria fever continues to be the most widespread disease in the Province. It is prevalent throughout the province and almost constantly in an epidemic form. Goalpara district is the most badly affected of all the districts. A total of 1,016,936 cases of malaria fever were treated in all hospitals and dispensaries in the plains districts, viz., 827,190 cases were treated in the dispensaries under the Medical Department and 189,746 cases were treated in the Public Health Department dispensaries, while 140,380 persons purchased quinine reinforced cinchona from post offices and other agents as during the year under reveiw 7,009 parcels of quinine reinforced cinchona were sold in the plains districts. As there are large areas in every district where there are no facilities for medical aid and quinine reinforced cinchona is not readily available, the number of patients estimated above is certainly not a complete statement of the actual number of cases suffering from malaria. From the statistics of the preceding years, it may be estimated that roughly 10 per cent. of the population is treated for malaria. As undoubtedly large numbers in rural areas went untreated, and as Assam is one of the principal malarious provinces in India, it would be more accurace, if the number who suffered from malaria be estimated at 30 per cent. of the population. On this basis there would therefore be about 2½ million persons in Assam suffering from malaria. Nearly 1½ millions therefore remain untreated. Separate figures of mortality from malaria are not available. As noted in paragraph 29 "Fevers" were responsible for 103,892 deaths against 105,687 in the preceding year. A very large percentage of these deaths is attributable to malaria fever, although it is a poor index, owing to general unreliability of the registration of the cause of death, the deaths under the heading "Fevers" are generally used for the estimation of the mortality from malaria. In malarious provinces 25 per cent. of the deaths due to "Fevers" is taken

As in previous years, quinine reinforced cinchona febrifuge was used as a general preventive and curative agent against malaria and was sold to the public at two annas per tube containing ten tablets of four grains each. As in previous year the Government of Assam gave a grant of Rs.20,000 to the Assam Medical Research Society for the purpose of research and the conduct of anti-malaria work. The Society's activities are at present confined mainly to researches on malaria.

The work of the Society is summarised below from information supplied by the Research officer.—Dr. Rice retired from the service of the Society from the 6th of March 1939, and the current duties were carried out by the malariologist, until Dr. D. K. Viswanathan was appointed and took over charge of the post on the 13th of October 1939. The usual course of training of Sub-Assistant Surgeons in malaria work, and the class for the training of malaria Inspectors were not held owing to the vacancy in the post of Research officer. For the same reason, no new lines of research were undertaken. Field malaria surveys as a result of the detailed Bhil survey done last year. Dr. Rice submitted a very full report on the methods of control of malaria in the Tea Estates in the Doom Dooma area. This included proposals for the control of malaria in the Government lands within infective range. The scheme of control based on the above report is being considered by the Government and the Tea Interests.

The Experimental control projects, to determine the efficacy of coid weather and pre-monsoon control, were continued. In all the areas where the work was done, A. minimus remained the sole vector. In Gauhati it was found that malaria there was liable to epidemic exacerbations, and a new survey was begun to determine whether the improvements in the spleen rates were due to anti-larval measures carried out, or to natural variations and declines in an epidemic cycle. In Nowgong also the recorded spleen rates indicated that the area was liable to epidemic variations in malaria. The anti-malaria work in the town, however, was able to keep the town free from malaria which prevailed all round it. The Research Officer considers that Gauhati and Nowgong would be suitable areas in which the factors of malaria transmission during an epidemic

could be very profitably studied. In North Lakhimpur, what was before a highly endemic area can now be classified as a moderately endemic area after five years of work. Natural control by flushing was found to be the method that gave the best results. In Mangaldai, no improvement resulted until it was found that the loops of the dying rivers running past the town were breeding grounds throughout the year, measures based on this discovery produced an immediate fall in the spleen rates which appears to be progressive and what was a highly endemic area bids fair to become malaria foci. In the Jagadishpur group of villages, (Surma Valley villages) there has been a considerable improvement in the incidence of malaria, and arrangements are being made to assess the incidence of malaria in the villages in the neighbourhood which are not under control to confirm the inference that the improvement in the controlled group is due to the anti-malaria measures carried out. In the Dishpur group of villages (Brahmaputra Valley villages), all efforts to secure the co-operation of the villages in the anti-malaria work failed, and it is the opinion that it will not be possible to effect any material improvement in such an area except at a very prohibitive cost, there are at least 370 acres of paddy fields besides a veryl arge area not so cultivated and a population of about 800 persons a cost that will be out of all proportion to the size of the village and its economic resources. It is proposed, therefore, to carry out measures against adult mosquitoes by spraying of Pyrocide XX in the houses of the village. In this connection, it seems to me to be an area, where a scheme of controlled irrigation and drainage, would ensure the co-operation of the villagers and I propose to take the matter up with the Research Officer and the officer in charge of Irrigation and Drainage.

Treatment Schemes.—The treatment scheme in Doom-Dooma is being reorganised to determine wether the recorded decreases achieved were the result of the intensive treatment over the several years the experiment has been in operation, or due to a real decline in the incidence of malaria. As anti-larval work is also going on in the area it might be difficult to separate the results due to treatment scheme and those due to the anti-larval work. This however may not be a real difficulty as anti-larval work in the area is not under unified control, as a result of which such work is largely ineffective. Treatment schemes in other areas have been examined jointly by the Research Officer and myself and we have decided that these schemes should be revised to provide throughout the malaria seasons, treatment of actual fever cases not merely cases of malaria infection detected by a single microscopic examination of the blood and to observe the results over a continuous period under the supervision of a trained Sub-Assistant Surgeon.

The Assam Medical Research Society in co-operation with the Public Health Department and the Provincial Advisory Malaria Committee continues to offer technical advice and supervision of schemes of anti-malaria work, where the surveys were carried out by its own staff. But the society is willing at all times and has often to advise in regard to other schemes. Such advice was given to five tea gardens and to the Assam-Bengal Railway in respect of its work at Lumding.

Entomological examinations carried out during the year numbered 58,943 larvæ and 10,224 adults. Dissections of 2,229 anophelines were done, and two infected A. culicifacies were found one in the infective stage.

During the year 10,339 specimens of blood and the same number of spleens examined malaria parasites were found in 12.6 per cent. of the blood samples, and 17.1 per cent. of the spleens were found to be enlarged. In a special survey by the Public Health Department of an area in the Surma Valley which was reported to be badly infected, 900 blood specimens were examined, of which 27.3 per cent. were found infected

SALE OF QUININE

44. The table below shows the quantities of quinine sold, district by district, during the year 1939:—

	Distr	ricts			Treatment parc	els sold in—	Difference		
					1938	1939	Increase	Decrease	
	1			- Land	2	3		5	
Cachar .					346	296		50	
C. 11 +					1,685	1,620		65	
Callman					699	719	20		
C					1,018	1,286	268		
Dawwane	in la la				596	681	85		
					653	966	313		
N11					776	1,159	383		
Labbinanus					292	282		10	
Khasi and Jainti	a Hills				609	605	***	4	
AT. TITLE					67	82	15	***	
					1,048	916	***	132	
C IIII.					62	75	13	***	
Sadiya Frontier	Tract				72	72	***		
Manimum			***		8	3		5	
Total .					7,931	8,762	831		

During the year under report 8,762 parcels of quinine Reinforced Cinchona Febrifuge were sold against 7,931 in the previous year. The sale increased in all districts except Cachar, Sylhet, Lakhimpur, Khasi and Jaintia Hills, Lushai Hills and Manipur State. The drug was sold at two annas per treatment of 10 tablets each.

The following quantities of quinine and cinchona Febrifuge were obtained and allotted to Civil Surgeons for free distribution to indigent malaria patients in the badly affected areas of the undernoted districts:—

				Quinine Sulph.	Cinchona Febrifuge	Quinine Reinforced Cinchona Febrifuge
Cachar				16 lbs.	24 lbs.	
Sylhet				136 "	204 ,,	4 lbs.
Goalpara		8	5	30 ,,	45 ,,	
Kamrup				40 "	60 ,,	
Darrang				12 ,,	18 ,,	
Nowgong				38 "	57 "	
Sibsagar				32 "	48 "	
Lakhimpur				14 "	21 ,,	
Khasi and Jai	ntia Hi	lls		1 "	1 "	
Total				319 ,,	478 ,,	4 ,,

A statement showing separately quantities in lbs. of (a) quinine and (b) secondary alkaloids of cinchona distributed free or at reduced price by the Public Health and Medical Departments and other sources during 1939 is appended:—

Statement showing separately quantities in lbs. of (a) quining and (b) secondary alkaloids of cinchona distributed free or at reduced price by the Public Health and Medical Departments and other sources during 1939 oz. dr. gr. payment payment :::::::::::::::: o gr. Lbs. oz, dr. gr. Lbs. Cinchona Ginchona 0 oz. dr. gr. Lbs. oz. dr. gr. Lbs. . 19 6 0 Free Other Departments :0::0 • Jail Department 00 payment payment oz. dr. ::::::::::::::::: o oz. dr. gr. Lbs. oz. dr. gr. Lbs. oz. dr. gr. Lbs. ő Quinine Quinine 0 Free Free 10 0 62 gr.Lbs. \$ 0 0 payment On payment oz. dr. : 6 2 : : : : : 0 : : : : -0 oz. dr. gr. Lbs. 18 Cinchona oz. dr. gr. Lbs. 45 Cinchona o • 0 Free Medical Department 14 gr. Lbs. 876 gr. Lbs. Local Fund 168 336 0 payment payment oz. dr. gr. Lbs. oz. dr. dr. 0 1116 11111111111 22 oz. 0 2 56 00 On gr.'Lbs. oz. dr. gr. Lbs. Quimine Quinine Free Free 001:00::::: 0 -2404002000054 oz. dr. gr. Lbs. 717 25 payment payment oz. dr. :::::::::::::: Cinchona Cinchona ő gr. Lbs. O oz. dr. gr. Lbs. oz. dr. gr. Lbs. oz. dr. gr. Lbs. 0 9 0 0 Police and Assam Rifles Hospitals dr. 0 Free Public Health Department Free 20100001::: : 63: 12: 416 12 .20 :00 12 138613851381 gr. Lbs. 00 On payment payment oz, dr. : o oz. dr. gr. Lbs. 7 30 0 Free Free 04 t-:02 04 586 84 Chs. Cachar
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Sibagar
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Khasi and Jaintia Hills
Naga Hills
Lushai Hills
Cushai Hills
Garo Hills
Sadiya Frontier Tract Cachar
Sylbet
Goalpara
Kanrup
Darang
Nowgong
Sibagar
Lakhmpur
Khasi and Jainta Hills
Naga Hills
Luchai Hills
Garo Hills
Sadiya Frontier Tract Districts Districts Total Total

CHAPTER IX

MATERNITY AND CHILDWELFARE

45. During the year under review a maternity and childwelfare centre under the Red Cross Society was opened at Dibrugarh.

A total of 36,299 infants died during 1939 giving an infant mortality rate of 149.73. This large number of deaths can be reduced if more materntiy and childwelfare centres are opened throughout the Province and a large number of properly trained midwives is made available. The infant mortality rate recorded in rural and urban areas was 150.78 and 112.43 respectively. The number of deaths from child birth is collected through Chaukidars and Gaonburas. No special enquiries have been made to verify and check the vital statistics beyond the usual verification. The death-rate of children under 5 years was 22.83. Maternity and childwelfare organisation are in the hands of the Red Cross Society. There is no Health Visitor Training School in the province and no provision for the inspection of welfare centres exists. No other attempt except propaganda with the aid of magic lantern demonstrations was made to reach rural areas in connection with maternity and childwelfare work. Figures are not available regarding proportion of births delivered in hospitals, by private doctors, by trained midwives, by untrained midwives and without attendants. No portion of the Public Health Department's budget was allocated to maternity and childwelfare. There was no specialised work for women and children in industrial areas. The Nari Sikshasram at Silchar provides a course of training for dhais lasting for a year to class of 15 students. The course is in accordance with the syllabus of the Victoria Memorial Scholarship Fund. Facilities for the training of dhais exist in the towns of Sylhet, Karimganj, Goalpara, Dhubri, Nowgong and Tezpur. Public examinations are held at Dibrugarh, Sylhet and Karimganj. Midwives are not registered in the province and there is no provision for inspection of midwives. There is no bye-law in any Municipality for controlling the practice of midwives. The position in respect of midwives is improving in the Province. Salaried midwives are employed by Municipalities and Local Boards.

There is no recognised institution for the training of midwives, assistant midwives and nurse dhais in the province. The services of doctors attached to hospitals and maternity homes are available for domicilary midwifery. There is no provision for the supervision of salaried midwives, assistant midwives and nurse dhais either in domicilary or in private practice. The Assam Births and Deaths Registration Act, 1935, controls the registration of births and deaths in the province. No provision exists for the control of the training, registration and supervision of nurses, health visitors, assistant midwives, nurse dhais and trained dhais. There is no prohibition of practice by unregistered midwives and dhais and there is no regulation regarding qualifications and appointment of staff in maternity and childwelfare work and the inspection of maternity hospitals and homes. The Indian Factories Act controls the conditions of women and children in industry. There is no Children's Act in the province. The chief hindrance to the advancement of this work are ignorance, prejudice and partly poverty on the part of the bulk of the population.

Table showing maternity and childwelfare centres, health visitors and trained midwives in rural and urban areas in Assam during 1939

	М			hildwelf ned by-		ntres				Staff—			
District	Government		Mun	l and icipal idies		ther	Trained visitors		Trained Midwives		Train	Trained Dhais	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	
1 500	2	3	4	5	6	7	8	9	10	11	12	13	
Cachar									3		3	3	
Sylhet					1				5	3		2	
Khasi and Jaintia Hills.					1		1	****		***			
Naga Hills	1								1				
Lushai Hills	2				1						4	·	
Goalpara									2	1		E	
Kamrup									2				
Darrang			2						2	1			
Nowgong			1		1		1		1				
Sibsagar									2				
Lakhimpur	***		1		1		1		1				
Garo Hills					1		1	.1.	1				
Manipur			***		***		***				***	***	
Sadiya Frontier Tract									3			3	
Balipara Frontier Tract						***	***			1			

TABLE SHOWING PUBLIC HEALTH SERVICES IN RURAL AND URBAN AREAS IN ASSAM DURING 1939

Vaccinators
Female School Medi
9 10
:
-
10000
111
:
:

CHAPTER X

SCHOOL HYGIENE AND MEDICAL INSPECTION OF SCHOOL CHILDREN

46. Assistant Directors of Public Health, Surma Valley and Hill Division and Assam Valley Division inspected schools and delivered lectures on health and hygiene to the students and the staff.

Periodical medical inspections of selected institutions were carried out and suggestions made for the improvement of the health of the boys and general sanitation of the schools and hostels attached thereto by the medical officers in charge.

CHAPTER XI

HEALTH PROPAGANDA

47. Assistant Surgeons of the Public Health Department in course of their inspection of dispensaries gave demonstrations and lectures illustrated by Magic lantern slides. The subjects dealt with included common prevalent diseases such as cholera small-pox, kala azar, malaria, tuberculosis, leprosy, as well as general sanitation and food. The expenditure was met partly from the Public Health Budget and partly from the King George Thanksgiving (Anti-Tuberculosis) Fund.

KING GEORGE THANKSGIVING (ANTI-TUBERCULOSIS) FUND

48. The tuberculosis clinic opened at Shillong in 1937 continued its work as before during the year under report. Arrangements for systematic home visits and tracing of contacts were carried out during the year. Dr. Ganguly, the Tuberculosis Home Visitor of the Shillong Clinic, attended health exhibitions in different parts of the province and organised demonstrations and propaganda work. Exhibitions, pamphlets, leaflets, charts and models were used for this purpose. The exhibit of the Shillong Health Exhibition of 1938 was found to be of very great value in this work. In many places it was reported to be the backbone of the local health exhibition. Partial tuberculosis surveys were carried out at Shillong. During the year 1939,71 new and 61 old cases came under treatment of whom 28 died. A total of 342 specimens was examined of which 55 were found positive. Two Medical Graduates who were trained at Calcutta at the expense of the Fund gave their services to the Clinic throughout the year as Honorary Visiting Tuberculosis Physicians.

The King George Thanksgiving (anti-Tuberculosis) Fund was wound up and its activities taken over by the Tuberculosis Association of Assam, which was formed on 15th November 1939. The Assam Provincial Committee of the King Emperor's Tuberculosis Fund, also ceased its operations of collecting funds. It was reconstituted as the Tuberculosis Association of Assam. Its object is to organise and carry out, with the funds collected, tuberculosis work in the Province. In bringing about this very much wanted organisation, mention must be paid to the very valuable work done by Lady Reid. It was due to Lady Reid's enthusiasm, and unflagging energy that the appeal by the Marchioness of Linlithgow met with such good results, at a time, when there were other urgent demands on the philanthropy of the people. The collection in the Province amounted to the sum of Rs.1,12,990-15-4 which must be considered to be a remarkable effort for a province suffering from so many disabilities as Assam. The Tuberculosis Association has begun the work of organising co-ordinated scheme for tuberculosis work in the province.

The Nowgong clinic continued its work as in the previous year but no progress could be made for want of funds.

A total of 478 sputum slides for tuberculosis were examined and 129 found positive.

CHAPTER XII

RURAL AND URBAN HOUSING CONDITIONS

49. In urban areas housing conditions continued not to be satisfactory. The houses are generally ill-designed and there is a great deal of overcrowding. The standard of housing both in towns and villages is far below what would be necessary to make for even moderately healthy living.

In rural areas the conditions become worse still during the rainy season, particularly in lowlying areas owing to floods. Poverty, ignorance and apathy stand in the way of improvement. There were no building societies or co-operative schemes for the improvement of rural and urban housing during the year under review. In the Industrial centres, housing conditions are reported to be improving. The tea gardens have initiated measures, for the improvement of housing conditions on their estates, and a series of standardised specifications and plans for houses for their labour is in course of preparation. Municipal authorities could likewise in their areas prepare town development schemes and plans for suitable housing of the populations in their congested areas.

In rural areas housing conditions remain the same. It is hoped that in the course of the working of a Health Unit Scheme plans for which are in preparation, the housing conditions in rural areas will be studied in detail and that the practical suggestions that will be made by the Health Unit, will result in tangible improvements in village housing and sanitation.

CHAPTER XIII

BUDGET GRANTS FOR THE DEPARTMENT

50. A scheme for the development of the Public Health administration in the province was submitted to Government during the year under review.

This scheme consisted of proposals for the improvement and development of the work of the Public Health Department in all its branches. It was designed to provide for a public health organisation, which would be a permanent and increasingly useful institution in the villages and rural areas, which at present are more or less left unprovided. The fundamentals on which this scheme is based are, the necessity for the employment of a qualified and trained staff in all grades of the department, the necessity to distribute the staff in such a manner that all parts of the province will benefit, the necessity of placing real responsibility on divisional, district, and subdivisional staffs, so that the higher supervising officers will have the opportunity to attend to the more improtant aspects of the work of prevention of disease. It was therefore proposed to set up a District Public Health Department in every district, with a properly qualified District Health Officer in control and with real responsibility, relieving the Civil Surgeons of their public health functions, with a Health Officer of the second class in every subdivision and a Health Inspector in every Thana. For the further improvement of the department it was proposed to reorganise the teaching of Hygiene and the institution of a Health Inspectors' training class in the Berry-White Medical School, and later, when this stage of reorganisation of the Department has been initiated, to take up that most important task, the improving of vaccination against small-pox and the stamping out of this disease. When such a reorganisation is undertaken the functions of the Assistant Directors of Public Health will be entirely responsible for the Public Health in their Divisions, and a much needed decentralisation of much routine work will be effected. The Director of Public Health will thus be relieved so as to be able to give his undivided attention to more important matters of Public Health. The scheme is now under consideration of the Government.

The budget allotments for the years 1938-39 and 1939-40 amounted to Rs.9,49,450 and Rs.8.66,100 respectively while those for heads administered directly by the Director of Public Health amounted to Rs.6,89,502 and Rs.6,07,545 respectively. The receipts of the Department for these years were Rs.1,61,349 and Rs.2,32,810-9-6 respectively.

The strength of the Public Health Department during the year was as follows :-

120				
1.	Director of Public Health			 1
2.	Assistant Directors of Public Hea	dth		 2
3.	Assistant Surgeons			 7
4.	Urban Health Officers		***	 9
5.	Sub-Assistant Surgeons—			
	General duty	. 89		
	Epidemic Unit duty	. 21		
	Malaria duty	. 9		
	In charge, Vaccine Depôt	. 1		
	Gauhati Emigration Hospita	d 1		
		121		
6.	Vaccination inspecting staff-			
	Inspector of Vaccination	. 9		

39

Sub-Inspectors of Vaccination

25	
7. Clerks—	
Office of Director of Public Health	14
" A. Ds of Public Health	2
" Civil Surgeons	10
" Pasteur Institute	1
	27
8. Bio-Chemist	1
9. Literate packers—	
in Public Health Laboratory	1
in Vaccine Depôt	1
10 C	2 4
10. Compounders (temporary)	*
11. Loaders—	
in Vaccine Depôt	2
12. Disinfectant Carriers—	
Permanent	30
Temporary	12
	42
13. Sample Taker	1
14. Laboratory Assistants and Media Make	
Public Health Laboratory	3
Vaccine Section Pasteur Institute	5
Bacteriophage Section Pasteur	8
Institute.	16
 Vaccinators appointed by Government in Hill Districts. 	43
16. Vaccinators appointed and paid by	397
Local Boards.	
Ditto by Municipalities	26
Ditto by Development Boards	2
n	
17. Magic Lantern Operators temporary	-6
18. Servants—	
DB	

Duftry Orderlies

Chaprasis

The Shillong Municipal Board employs a fully qualified Health Officer whose salary is met in part by a contribution from Government.

3

125

CHAPTER XIV

VACCINATION

This chapter and all statistical tables connected with it refer to the period from April 1st, 1939 to March 31st, 1940. The question of writing this report for the calendar year is being examined and it is hoped that arrangements will be completed to make this possible when the next report is presented.

INTRODUCTORY

51. Vaccination was performed as usual, throughout the province, among a total population of (estimated) 10,053,459.

VACCINATION AGENCIES

52. Vaccination among the general population was performed by 469 vaccinators, viz., 389 Local Board, 28 Municipal Board, 2 Development Board, 38 Government vaccinators and 12 vaccinators in Manipur State. The labour force of the Tea Estates was vaccinated by the Garden Medical Officers. Railway employees were vaccinated by the Railway Medical Officers and in Jails vaccination was performed by Sub-Assistant Surgeons in Medical charge.

When their services were not required for cholera or other epidemic duty 42 Disinfectant Carriers of Epidemic Units were also employed, as in the previous years, as vaccinators. The average number of persons vaccinated by each vaccinator was 2,017 during the year under report as compared with 1,793 in the preceding year. There was an increase in the average number of persons vaccinated by each vaccinator by 224.

TOTAL NUMBER OF OPERATIONS

53. The total number of vaccination operations performed in Assam during the year 1939-40 by all agencies was 945,876 of which 471,571 were primary and 474,305 revaccinations as compared with 855,034 of which 463,800 were primary and 391,234 revaccinations in the preceding year. There was an increase of 7,771 in primary vaccinations and 83,071 in revaccinations in comparison with the previous year. Variations in the district returns are criticised in paragraph 60.

The total number of operations performed by different agencies during the year under report and in the previous year is shown below:—

			1939-40	1938-39
Number of	operations	by—		
Local an	d Municipa	l Board and Government Vaccinators	859,898	784,750
Ditto	ditto	by Staffs of dispensaries	11,779	7,251
Ditto	ditto	by Tea Garden agencies	64,824	55,229
Ditto	ditto	by Jail, Asylum, Police and Emi- gration Hospital agencies.	5,584	3,855
Ditto	ditto	by Railway agencies	3,791	3,949
Ditto	ditto	by Private Medical Practitioners	La Lividad	
			945,876	855,034

There was an increase of 90,842 operations in the year under report as compared with the previous year.

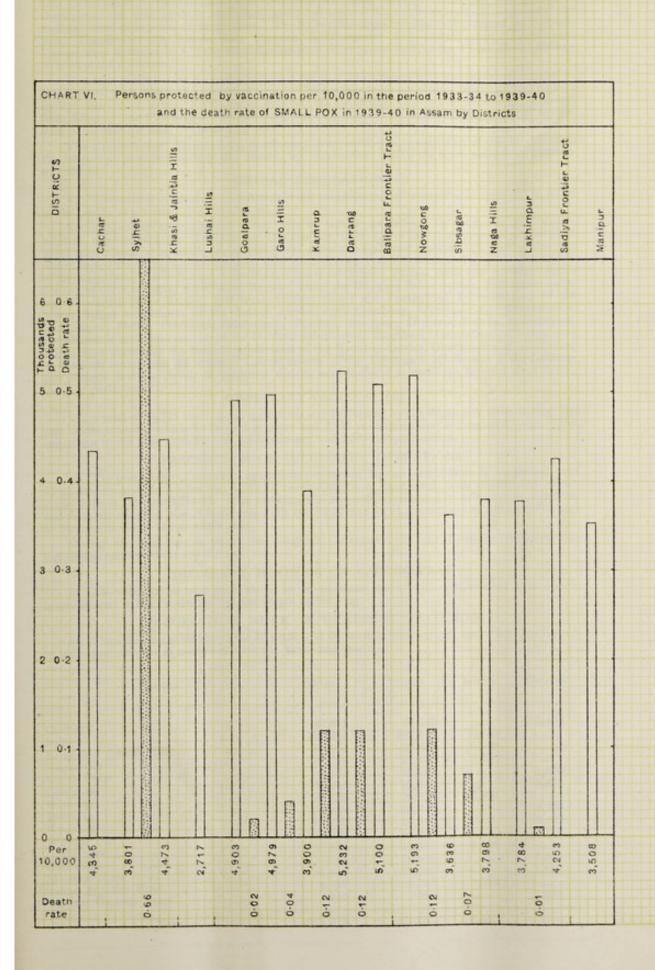
VACCINATIONS AMONG THE GENERAL POPULATION

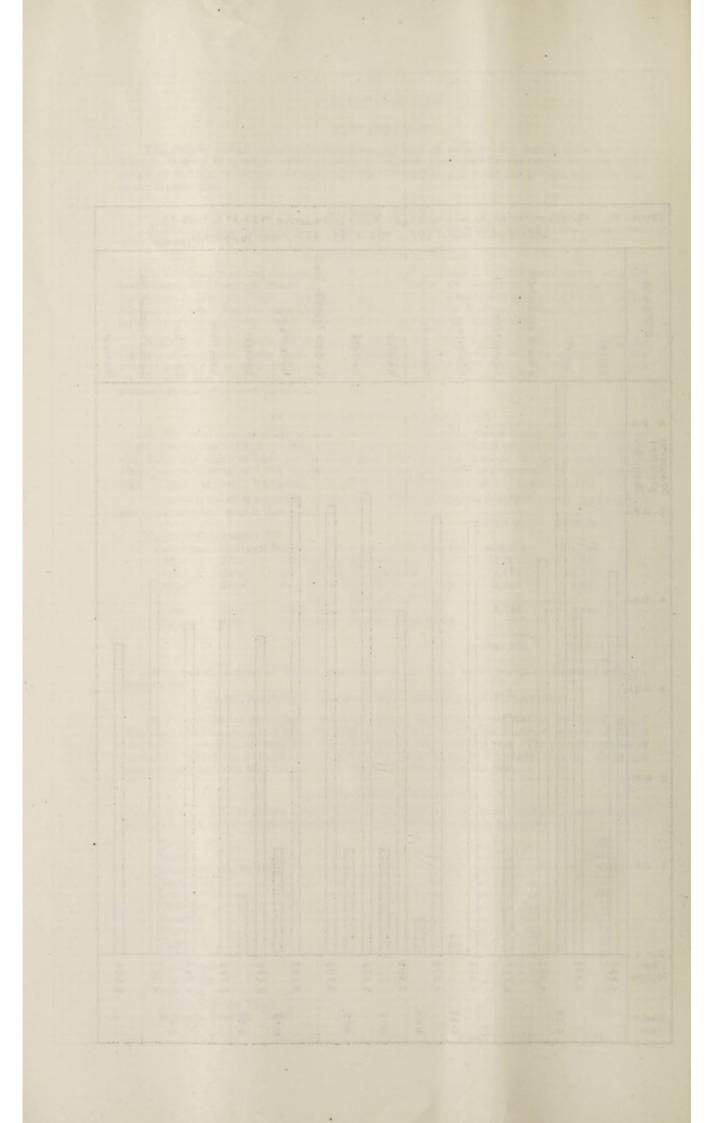
54. The number of operations performed among the general population by Local Board Municipal and Government Vaccinators during the year under report shows an increase of 75,148 vaccination operations as compared with the figures of the preceding year. The present practice of vaccination during the 6 months only in the year is not satisfactory for many reasons. Steps are being taken to organise the carrying on of vaccination throughout the year.

DEATHS FROM SMALL-POX

55. A total of 2,334 deaths against 1,736 in the previous year from small-pox, occurred in the province including the Hill districts during the year 1939-40 as shown below:—

Cachar								Nil
Sylhet								1,962
Khasi and Ja	intia	Hills					they bearing	Nil
Naga Hills								Nil
Lushai Hills				***	***			Nil
Goalpara				***	***			15
Kamrup						***		127
Darrang				***		***		74
Nowgong				***				69
Sibsagar				***				68
Lakhimpur			***		***	***		11
Garo Hills					***		Circums	8
Manipur						***		Nil
Sadiya Fron				***	***	***		Nil
Balipara Fre	ontier	Tract		•••		***		Nil
						Total	1	2,334





As in the previous year the highest mortality from small-pox was reported from the Sylhest district. All the subdivisions of the district more or less were affected with small-pox during the year under report. North Sylhet subdivision was the worst sufferer. Small-pox was prevalent throughout the year both in Municipal and rural areas of the subdivision which necessitated the entertainment of non-season vaccinators. The Sylhet Municipality was badly affected with small-pox. The services of a Sub-Assistant Surgeon, Sub-Inspector of Vaccination and a Disinfectant Carrier were therefore lent to the Municipality for a short period to help the Urban Health Officer to control the epidemic.

The ratio of deaths from small-pox during the year 1939-40 was 0.23 per mille of population as compared with 0.19 in the preceding year. The death-rate reported from small-pox was highest in the district of Sythet 0.66 against 0.48 in the preceding year. The death-rate reported from Kamrup was 0.12 against 0.08, Darrang was 0.12 against 0.04 and Nowgong was 0.12 against 0.54 in comparison with the preceding year.

The attached chart illustrates the death-rates from small-pox in each district side by side with the proportion protected against the disease by vaccination during the seven years from 1933-34 to 1939-40.

SPECIAL REGULATIONS

56. Vaccination in rural areas in Assam is not compulsory, but every encouragement is given to the people to get themselves vaccinated.

Some opposition to vaccination is met with in certain localities. To overcome this hostile attitude, regulations under the Epidemic Diseases Act, 1897 (III of 1897), are resorted to and these areas are declared to be small-pox infected areas under the Epidemic Diseases Act. During the year under review the villages under Kulaura and Maulvi Bazar Police Stations and some of the villages of the Kamalganj Police Station of the Maulvi Bazar subdivision, Patiala under the Ratabari Police Station of the Karimganj subdivision, Bejgaon under the Balaganj Police Station, Nowagaon under the Biswanath Police Station and some villages under the Fenchuganj Police Station of the North Sylhet subdivision of the Sylhet district, Pashimbonbhag, Uperborbhag, Madiyabaska, Pharmapur, Defeli, Pubbaska, Pubborigog, Panduri, Sonapur, Demoria, Beltola, Ramcharani, Pubchamaria and Hajo mouzas of the Gauhati subdivision, Bogribari, Gobordhan. Chenga and Bhobanipur mauzas in the Barpeta subdivision of the Kamrup district, Gharbondi and Miridalang in Mankata mauza and the whole of Lahoal mauza of the Dibrugarh subdivision of the Lakhimpur district and the whole of Goalpara district were declared as small-pox infected areas during the year under report.

DISPENSARY VACCINATION

57. A total of 11,779 vaccination operations was performed by the dispensary staffs during the year under report of which 2,694 were primary and 9,085 re-vaccinations as compared with 7,251 operations in the year 1938-39 with 1,655 primary and 5,596 re-vaccinations.

PERCENTAGE OF SUCCESSFUL OPERATIONS

58. The percentage of successful operations performed by all establishments combined was 95.41 for primary vaccination and 58.48 for re-vaccination as compared with 95.39 and 59.57 respectively in the year 1938-39. The percentage of successful operations in primary vaccinations and re-vaccinations in case of dispensary staffs was 94.27 and 50.64 respectively as against 90.74 and 45.74 respectively in the previous year.

During the year under report no complaint as regards the lack of potency of the vaccine lymph was received from any district.

DIFFERENT METHODS OF VACCINATION

59. All vaccinations were performed, as in previous years, with glycerinated calf lymph manufactured in the Provincial Vaccine Depôt at Shillong.

VACCINATION WORK IN DIFFERENT DISTRICTS

60. The following table shows the increase and decrease in vaccination operations performed in individual districts as compared with the preceding year:—

Districts	The sale had	1939-40	1938-39	Increase	Decrease	
Cachar			47,971	53,455	he year.	5,484
Sylhet		TARKET	360,644	282,195	78,449	
Khasi and Jaintia Hills			49,051	27,888	21,163	
Naga Hills	9 1	1007.00	18,716	17,130	1,586	20 1.10
Lushai Hills	1000	9,1001, 100	9,919	11,607	Country (m)	1,688
Goalpara		10000000	78,844	85,219		6,375
Kamrup		I dille bots	89,123	74,139	14,984	01-01-01
Darrang			70,149	78,343	Street,	8,194
Nowgong			51,227	59,717		8,490
"Language			62,780	64,927		2,147
-11 France	(C)		57,026	48,592	8,434	
Y T T 11		Z 2000	17,681	19,030		1,349
Manipur State			25,946	27,200		1,254
adiya Frontier Tract			6,287	4,747	1,540	
Salipara Frontier Tract		2007-00	512	845		333
ampara Pronuci Tract			7.2	-	and the sail	000
Total			945,876	855,034	90,842	

The increase in the Sylhet district is the highest (78,449). The fall of 8,490 vaccination operations in the Nowgong district is due to the fact that there was no wide spread of small-pox epidemic in this district during the year under report. In the Darrang district the decrease of 8,194 is due to the fact that the population of the Tezpur and Mangaldai subdivisions was less than that of the previous year and the Tea Garden Medical Officers' returns furnished a small number of vaccinations during the year under report. No vaccination operations were performed by the dispensary staff in the districts of Cachar, Kamrup, Nowgong and Lakhimpur.

COMPOSITION AND STRENGTH OF THE INSPECTING STAFF

61. The subordinate Inspecting Staff was the same as in the previous years and consisted of 9 Inspectors and 30 Sub-Inspectors of Vaccination. As in the previous years one Inspector and one Sub-Inspector of Vaccination were employed by the Manipur State during the year under report.

VACCINATION IN COMPULSORY AREAS

62. In towns, where the Vaccination Act is compulsory 7,455 infants were born, of these 787 died, leaving 6,668 infants available for vaccination during the year 1939-40. Out of these 3,747 or 56:19 per cent, were successfully vaccinated as compared with 46:51 per cent, of the previous year. In Shillong town 96.46 per cent. of the available infants were vaccinated. In other towns the percentage of vaccinated children was, Mangaldai 93.75, Palashbari 91.55, Sylhet 82.85, Nowgong 77.07, Maulvi Bazar 67.03, Gauhati 65.25, Karimganj 62.34, Silchar 57.10, Tezpur 53.02, Gauripur 52.04, Goalpara 48.47, Nazira 45.71, Doom Dooma 45.45, Golaghat 44.74, Dhubrit 44.72, Jorhat 42.80, Dibrugarh 34.73 Hailandi 34.09, Sunamganj 32.12, Srimangal 29.85, Barpeta 29.49, North Lakhimpur 26.67, Sibsagar 23.48, Habiganj 18.40 and Tinsukia 16.81.

In compulsory rural areas under village authorities in Sylhet, Nowgong and Sibsagar districts 3,829, 1,008 and 1,625 operations were performed during the year under report as compared with

4,988, 1,375 and 1,539 respectively in the previous year.

VACCINE DEPOT, SHILLONG

63. The amount of vaccine lymph manufactured in the Vaccine Depôt, Shillong, during the year under report was 1,110,290 tubes against 994,679 tubes in the previous year. A total of 1,096,208 tubes was issued during the year under report against 1,026,373 tubes in the year 1938-39. Each tube contains sufficient vaccine lymph to vaccinate one person. During the year under report 455 cow calves, 13 buffalo calves and 14 rabbits were hired and inoculated, out of these, operation was done on 375 calves for collection of vesicles out of which 33 failed and 14 inoculated calves remained at the close of the year. A total of 75 calves was rejected, 33 on account of failure of operations, 2 from Jaundice and 40 on account of other illness as compared with 55 on account of failure of operations, 64 on account of illness in the preceding year. During the year under report no calf was rejected on account of unsatisfactory vesicles against one in the year 1938-39. Thirty-eight calves were used for the potency test of the lymph manufactured during the year under report, against sixty-four in the preceding year. All the batches of lymph tested gave uniformly continuous and 100 per cent. success. The staff of the depot have undertaken to do vaccination and re-vaccination twice a week at the Vaccine Depot, Shillong, so that definite data regarding these may be obtained here.

During the year under report the average number of tubes prepared per calf was 3,385 as compared with 2,564 in the year 1938-39. The average yield per calf was 36'41 grammes during the year 1939-40 against 35'46 grammes in the preceding year. The total cost of working of the Vaccine Depot, Shillong, was Rs.15,056 as compared with Rs.15,180 in the preceding year. Rupees 5,361 was on account of establishment, Rs.2,444 on account of hire of calves, Rs. 163 on account of feed of calves, Rs. 3,827 on account of purchase of capillary tubes and instruments

and Rs.3,261 on account of miscellaneous expenditure.

As usual lymph was supplied free to Civil Surgeons, Inspectors and Sub-Inspectors of Vaccination, Local and Municipal Boards and Sadiya and Balipara Frontier Tracts. Military Departments, Tea Gardens, Railways, Mission Hospitals, Manipur State and private individuals were supplied, as usual, on payment at the rate of one anna per tube.

Two Sub-Inspectors of Vaccination were trained at the Vaccine Depôt, Shillong, during the

year under report, in the technique of vaccination.

The subordinate charge of the Vaccine Depôt was held by Dr. Sudhiranjan Bhattacharjee throughout the year.

COST OF THE DEPARTMENT

64. The total expenditure including the charges of the Vaccine Depôt, Shillong, on vaccination in Assam, during the year under report was Rs.1,06,961-9-3 as compared with Rs.1,06,401-14-10 in the previous year. The average cost of each successful vaccination during the year 1939-40 was two annas and ten pies only as compared with three annas and one pie only in the previous year.

GENERAL

65. Primary vaccinations and re-vaccinations performed by the Dispensary Staff numbered 2,694 and 9,085 respectively, by Tea Garden Medical Officers 31,910 and 32,914 respectively, by Medical Officers in charge of Jail Hospitals, Mental Hospitals, Police Hospitals and Infectious Diseases Hospitals 76 and 5,508 respectively, and by the Railway Medical Officers 512 and 3,279 respectively. The percentage of successful vaccinations and re-vaccinations were 94.27 and 50.64, 94'85 and 78'25, 84'72 and 62'50 and 98'59 and 37'04 respectively. As in the previous years no vaccination operation was performed by Private Medical Practitioners during the year under report.

CHAPTER XV

OTHER PUBLIC HEALTH SERVICES

66. Industrial hygiene.—The principal industry in the province is the cultivation and manufacture of tea. Sanitary conditions on tea estates, on the whole, are satisfactory. Special regulations, under the Emigration Labour Act, 1932, exist in regard to the supervision of sanitary conditions in tea estates. The Indian Factories Act controls sanitation in factories and also offensive trades.

The Assistant Directors of Public Health are additional Inspectors of Factories within their respective jurisdiction to see that the provisions of sections 13 to 21 of the Act are properly observed in the factories. The Assistant Director of Public Health, Surma Valley and Hill Division inspected 38 factories and the Assistant Director of Public Health, Assam Valley Division, 10

during the year under report.

67. Mines.—During the year 1939, the Civil Surgeon, Naga Hills, inspected the sanitary conditions of Borjan Colliery and the Assistant Director of Public Health, Assam Valley Division, inspected Ledo, Buragoloi and Numdang coal mines. The Civil Surgeon, Lakhimpur, who is also ex-officio Inspector of Mines did not inspect any mine during the year under review. There is no ex-officio Inspector of Mines did not inspect any mine during the year under review. There is no mine under the jurisdiction of the Assistant Director of Public Health, Surma Valley and Hill

68. Public Analyst (food adulteration).—In 1939, a total of 1,407 samples was examined in the Public Health Laboratory against 1,362 in the previous year, as shown in the table below:— I. Table-General Public Health Analysis

Ti. I table General	1 110110		marysis	1939	1938
Water samples :— (a) Chemical	·	Fig.		229	232
(b) Bacteriological		TI		359 158	395 174
Vaccine lymph Miscellaneous examinations				156	14
Tota	al			746	815

II. Table-Food Analysis

				0	19	939	19	38
		_			Number examined	Number found adulterated	Number examined	Number found adulterated
Milk			 		175	69	96	69
Ghee .			 		231	146	222	160
Mustard o	il		 =	Ę.,	199	98	165	69
Tea .			 		18	2	16	4
Rice .			 		5		5	2
Ahar Dal .			 	13	2			
Gur .			 		1			
Sugar, etc			 		2		4	
Moida and	Atta		 		21	2	33	1
Butter .		***	 E	Ŧ	4	- 4	2	2
Others .			 		3	1		
Miscellaneo	us oils		 10	Ŧ	=		4	2
		Total	 		661	322	547	309

As usual bacteriological and chemical examinations of filtered waters of all water-works and of jail water supplies were carried out. Many samples were received from wells, trial borings and tube wells of the local board areas which were under construction from the central rural uplift fund. The Laboratory also functioned as the Provincial Depot for the supply and despatch of Urea-stibamine and spare parts of syringes to Public Health Dispensaries.

An enquiry into the detection of adulteration of foodstuffs was conducted during the whole

year in the Public Health Laboratory and this was financed by the Indian Research Fund

Association.

During the year investigation on the adulteration of milk was undertaken and valuable observations were made regarding the constituents of milk of cow and also of buffalo of known breed. Estimation of lactose for which a rapid method has been worked out in this Laboratory shows that lactose content of cow milk varies from 3.9 per cent. to 5.23 per cent. whereas that of buffalo milk varies from 4.18 to 5.53 per cent. It is expected that estimation of lactose will help the detection of adulterated buffalo milk passed as cow milk.

	Remarks	12	Two maunds and 15½ seers of milk and 8 maunds and 15 seers of fish were destroyed under section 16 of the Assam Pure	Food Act. Six tins of glue were destroyed under section 16 of the Act.	IR PE	Thirty-seven articles of foodstuffs were seized	were destroyed, one case was taken before the Magistrate and destroyed	samples were in the cus- tody of the Police, 387 samples of milk were examined locally of which 8 were found adul- terated. These were des- troyed under section 16.
1939	and to amount latoT ested gainub besilest	п	Rs. a. p. 75 0 0	290 0 0		0 0 091	an visitles	litions of Borjan C expressed Ledo, Bo walf in Inspector that mades the ju- liation
Statement of the working of the Assam Pure Food Act in the Municipalities during the year 1939	Nature of offence	10	Adulteration of butter, ghee, mustard oil and milk.	Adulteration of ghee, mustard oil, wheat-flour and tea.	:	Adulteration of milk, ghee,	0	
Municipaliti	Amount of fine or impri- can to memore to the cach to the cach to the cach cache cache (sgraye)	6	Rs. a. p.	Total State	0 150 0 0	:	Page 1	
d Act in the	Amount of fine or impri- sonment for each first offence (average)	8	Rs. a. p. 75 0 0	290 0 0	685 0 0	:		
Pure Food	Number of convictions secured for subsequent offences	-	101	1	1	:		L. MIDA
the Assam	Number of convictions secured for lat offence	9	4	18	п	:		Manual oil
vorking of	Number of prosecutions between	10	9	81	14	;	A STATE OF	full tall
it of the 1	esigmas to radmuN barararituba barnol	,	9	22	20		The same	Sign. em.,
Statemer	Number of samples sent for analysis	60	18	42	52	1	Sullian	Suns
	Number of samples	61	18	4	52	1	terri	Miscellaneous oils
	Name of Municipal Board	erana on be- one and brooks brooks chass brooks	Tezpur Municipal Board	Nowgong Municipal Board	Silchar Municipal Board	Gauripur Smalll Town	triological recording to the control c	As autial last of the last of

	Our composition and parties.				Out of 24 samples sent for analysis 6 were found to be adulterated, of these	one sample was sent at party's expense as the party wished to have these analysed* before	they sell the article. In other 5 cases conviction was secured. In 3 cases	ed and found to be adul-	trate and they were fined.	
.0	00		0	0	0		9_ 21		0	0
0	00 :	: :	0	0	0				0	0
232	167		735	96	85		-		124	135
Adulteration of milk, ghee, mustard oil	and tea. Ditto ditto Adulteration of milk and ghee.	ii Janua lio	Adulteration of ghee and mus-	Adulteration of mustard oil and	Adulteration of milk, ghe butter and mustard oil.				Adulteration of	Adulteration of ghee, and mustard oil and tea.
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232	38		735	8	85				124	53
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25	19	1 1	16	8	00				12	83
12	3 :	: :	18	1	9				12	89
	. + +	: :	24	31	24				23	84
55	54 :	: :	22	31	72				23	48
Dibrugarh Municipal Board.	Tinsukia Municipal Board Doom Dooma Town Committee. North Lakhimpur Town	Sunamganj Municipal Board. Srimangal Town Com-	Sylhet Municipal Board	Karimganj Municipal Board.	Dhubri Municipal Board	Control Power Const			Jorhat Municipal Board	Golaghat Municipal Board

*The samples were offered.

	Remarks	on and p.12 of pt perfection		public thatfore you		Cases pending.	Our of 24 minible sont 64					tion is not yet known.			mpromised on p	Municipal Fund and one discharged by the Magis-trate with warning.
39-concld.	Total amount of fine realised during 1939	=	Rs. a. p.	75 0 0	:	:		:=	:	395 0 0		:	:	80 0 0	215 0 0	0 0 000
Assam Pure Food Act in the Municipalities during the year 1939	Nature of offence	10		Adulteration of mustard oil.	:	Adulteration of milk, ghee and mustard oil.	The state of the s	San Bergerania	Total Sales.	Adulteration of	oil and tea.	:	:	Adulteration of	Adulteration of	mustard oil.
icipalities a	Amount of fine or imprisonment for each sub- sequent offence (average)	6		:	:	1	:	:	:	:		:	:	:		
ct in the Mun	Amount of fine or imprisonment for each first offence (average)	00	Rs. a. p.	75 0 0	:	:	0 30	:		395 0 0		:	:	0 0 08	215 0 0	0 0000
re Food A	Number of convictions secured for subsequent	1		:	:	1	:	:	:	:		:	:	:		
	Number of convictions secured for lst offence	9		-	.:	:	-	:	:	10		:	:	60	6	
Statement of the working of the	snoinusseord To radmuN beautitieni	un.		1	:	e.	*:	:	:	10		N	:	60	10	77
the wor	Number of samples found adulterated	7		-	:	m	:	:	:	10	•	20	:.	60	п	63
ement of	Number of samples sent for analysis	60		•	:	6		:	:	15		n	:	7	20	-
Stat	number of samples	61		4	:	:	::	-:	:	18		20	:	4	20	2
	Name of Municipal Board	-		Goalpara Municipal Board	Polashbari Town Com-	Gauhati Municipel Board	Barpeta Municipal Board	Nalbari Town Committee	Mangaldai Town Com-	Sibsagar Municipal Board		Nazira Town Committee	Hailakandi Town Com-	Maulvi Bazar Municipal	Habiganj Municipal Board	Divinita Special

1			and state of the s	and Acres	lk was mixed
lical troil	Remark out to the Control of the Con	12	CHAPTER XVI GENERAL REMARKS The research work in the province is con-	One case is pending	One sample of milk was found partially mixed with water.
1939	and to tracount lateT e261 gainth basilast	=		135 0 0	10 0 0 200 0 0 100 0 0
Food Act in the Local Boards during the year 1939	Nature of effence	10	Adulteration of shee. Adulteration of milk, thee, mustand oil and other food stuff	Adulteration of ghee, wheat flour and mustard oil.	Adulteration of mustard oil. A 'ulteration of ghe and mustard oil. Adulteration of ghe.
Local Board	Amount of fine or inpuri- sonnies 101 memore sequent (sgrisys)	6		::	i i ii ii i
d Act in the 1	Amount of fine or impri- sonment for each first offence (average)	80	95 0 0 47 0 0	135 0 0	10 0 0 200 0 0 100 0 0
Pure	Number of convictions secured for subsequent offences	t-		11	Lind on I
f the Assam	Number of convictions secured for 1st offence	9	7 1111 1111	:	
working o	Number of prosecutions beautitieni	10		: 80	18 18
Statement of the working	Number of samples found	-			20 11
Stateme	Number of samples sent for analysis	3	2011111 1114 1111 ²	12	21 S
	Number of samples	61	1111 1117 1111	15	21 - 23
	Name of Municipal Board	-	Barpeta Local Board Nowgong Local Board Dibrugarh Local Board North Lakhimpur Local Board. North Sylhet Local Board Habiganj Local Board Sunamganj Local Board South Sylhet Local Board South Sylhet Local Board Goalpara Local Board Goalpara Local Board Goalpara Local Board Local Board Goalpara Local Board Goalpara Local Board	Sibsagar Local Board Golaghat Local Board	Dhubri Local Board Karimganj Local Board Tezpur Local Board

- 69. Port Health Administration .- Nil.
- 70. Sanitary Works.-This is dealt with in Chapter VI, under heading "Urban Sanitation".
- 71. Public Health Board.—There was no meeting of the Public Health Board during 1939. The Health Board (Epidemics) functioned as in previous years.

CHAPTER XVI

GENERAL REMARKS

- 72. Research work.—The research work in the province is entrusted to the Assam Medical Research Society. The Society receives an annual contribution of Rs.20,000 from the Government of Assam. The Director of Public Health, Assam, is an ex-officio member of the Governing Body. The activities of the Society are concerned with malaria, cholera and dysentery and lately confined to work on malaria. As in previous years, surveys of malarious areas were undertaken during the year under review. The work done by the Society in regard to malaria is mentioned in Chapter VIII of the report.
- 73. Leper Asylum and Colonies.—The table below gives the details of the patients treated in the existing leper institutions in the province:—

The Part of the last of the la	Remain- ing from the previous year	Admis- sions during the year	Total	Dis- charged, cured or relieved	Dis- charged other- wise	Died	Remain- ing at the end of the year
1	2	3	4	\$	6	7	8
Leper Asylum, Sylhet	 75	21	96	2	17	4	73
Leper Hospital, Kohima	 24	6	30		4	5	21
Leper Ward, Dhubri	 8	75	83	1	33		49
Leper Asylum, Gauhati	 23	85	108		26	4	78
Leper Colony, Tura	 92	36	128	1	23	9	95
Leper Asylum, Barpeta	 16	6	22		9		13

The treatment is available in out-patients' clinics at all sadr and subdivisional headquarters hospitals and at many of the outlying Public Health Department and Local Board Dispensaries. The Mission Leper Colony at Jorhat treated 116 lepers during 1939.

- 74. Famine.-No remarks.
- 75. Public Health Acts .- No Public Health Act was passed during the year.
- 76. Public Health Essays.—The Secretary, Assam Red Cross Society, did not submit any scheme for holding essay and poster competitions in Public Health.
- Bacteriophage.—The Pasteur Institute and Medical Research Institute, Shillong, issued
 244,704 doses of bacteriophage during 1939 as compared with 495,872 doses in 1938.
- 78. Plasmoquine and Atebrin.—These drugs were tried experimentally in the treatment and prevention of malaria.
- 79. Personal Proceedings.—I held charge of the Department throughout the year while the posts of Assistant Directors of Public Health, Surma Valley and Hill Division and Assam Valley Division were held by Dr. S. H. Paul, L.R.C.P., M.R.C.S., D.P.H., D.T.M., and Dr. S. C. Dutt, M.B., D.P.H., respectively throughout the year.
- 80. Office.—My office continues to work satisfactorily. Further progress in the improvement of the work in the office has not been possible on account of the increase in the amount of work and the want of staff. An additional clerk was entertained temporarily for four months to help with the preparation of the statistics for the annual report. The speed with which these were prepared and compiled and the production of the report in due time is due to this help. On this analogy, I believe, I would be correct to say, that given similar relief in the permanent office staff, most of the difficulties the office finds in keeping up to date with its work, will disappear.

SHILLONG:

IMPERIAL STATEMENT No. 1.—Statement showing the births registered in the districts of Assam during the year 1939

	Female Total females born Male Female Total	0 11 12 13 14 15	The same of the sa	16-71 34-58 107 16-84 15-93 32-77	14.20 29.78 110 16.53 15.33 31.86	14-61 30-55 109 16-58 15-42 32-00	TO 100 100 100 100 100 100 100 100 100 10	おは 日は 日本 本本 日本 日本 日の 日の	15.74 32.69 108 16.54 15.40 31.94	9-20 19-28 110 10-39 9-68 20-07	14.64 29.60 102 15.02 14.36 29.38	11.52 23.65 105 9.11 8.51 17.62	13.84 28:51 106 13:58 12:71 26:29	13.88 28.43 105 14.67 14.08 28.75	13-07 26-94 106 13-30 12-52 25-82	13-71 28-44 107 14-67 13-73 28-40
Ratio of births per 1,000 of population	Male Fema	6 10		17.87	15-58 14-	15-94 14-	The last	THE PERSON NAMED IN	16-95 15-	10-08	14-96 14-	12-13	14-67 13-	14.55 13-	13-87 13-	14-73 13-
Grand total number of births registered	Female Total			9,559 19,784	42,195 88,478	51,754 108,262		100	14,930 31,006	9,531 19,973	9,108 18,414	6,822 14,004	13,858 28,545	10,852 22,224	65,101 134,166	116,855 242,428
Grand total nur	Male	9		10,225	46,283	56,508			16,076	10,442	908'6	7,182	14,687	11,372	590'69 1	, 125,573
opulation	ale Total	4	Editor dona	269,680 572,092	6,017 2,971,169	,697 3,543,252	Market No. of	BLOW - SOLIE	442,998 947,949	491,348 1,036,013	284,780 622,178	277,724 591,933	468,504 1,000,900	351,353 781,591	4,980,564	4,022,404 8,523,816
Estimated population	Male Female		Shreet Soo	302,412 269	1,535,143 1,436,017	1,837,555 1,705,697	Street water	Top or Italya	504,951 442	544,665 491	337,398 284	314,209 277	532,396 468	430,238 351	2,663,857 2,316,707	4,501,412 4,022
	Detricts	2	SURMA VALLEY	Cachar	Sylhet 1	Total	Dark .	ASSAM VALLEY	Goalpara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur	Total 2	Total for the pro-
,	No.	-		-	61			35	62	4	NO.	9	7	80		

IMPERIAL STATEMENT No. II.—Statement showing the deaths registered in the districts of Assam during the year 1939

							36									
per 1,000 live years		Total	12		21.20	22.43	22.23	88	22.80	13.06	20-51	11:57	17-45	20-85	17-71	19-63
Mean ratio of deaths per 1,000 during the previous five years		Female	20		22.38	22.13	22-11		22.58	13.22	22-05	11-79	18.14	22.58	18.33	19-97
Mean rad during th		Male	19		20.15	22.70	22.27		22-99	12.92	19.20	111-37	16.85	19-44	17-28	19-33
		Total	18		21-61	20.46	20.65		24-92	11.58	20.60	17-04	18-44	17.88	18-26	19-25
	All causes	Female	11		22.59	20-27	20-64		25.01	11-69	21-47	17-69	19-01	19-14	18-77	19-56
		Male	16		20-73	20.64	20-65		24.85	11-48	19-88	16.47	17-93	16.84	17-82	18-98
from—	sosneo	All other	15		6.51	2.62	6.05		-74	1.37	4-7-4	1.65	4.12	4.95	2.82	4.16
of population from		eimial	14		.29	.52	.25		-14	-14	.30	-14	.21	.30	.20	66.
od Jo	Á	Respirator	13		1.38	-15	.58		.24	.28	1.18	.35	1.17	99.1	61.	01.
1,000		Dysentery	12		2.37	1.24	1.42	20.03	.35	.43	1.69	1.18	2.36	2.21	1.33	1.37
Deaths per 1,000		Fever	=		10-70	11.18	11-10	200	23.37	10-6	12.55	13-42	10-46	8-73	12.96	12-19
200		Plague	10		:	:		3100	-		:	:	:			:
		soq-liem?	6		-	09.	.51		.01	.13	.13	.16	-08	-01	80-	.26
		Cholera	00		.36	-80	.73		-02	.22	.03	.13	10.	10.	80.	.35
egistered		IntoT	1		12,363	60,795	73,158	6	23,627	11,998	12,819	10,088	18,455	13,974	196'06	164,119
Number of deaths registered		Female	9		6,092	29,114	35,206	Phi hos	11,079	5,744	6,113	4,913	8,908	6,727	43,484	78,690
Number		Male	10		6,271	31,681	37,952		12,548	6,254	902'9	5,175	9,547	7,247	47,477	85,429
and to	opulati	Average p	-		4.73	497	438	2	62	254	206	144	182	171	195	253
səlii	m əreni	pe ni sarA		2747	1,972	5,478	7,450	1,007,0	3,985	3,844	2,842	3,896	5,131	4,234	23,932	31,382
	Districts	Addition of the second	61	SURMA VALLEY	Cachar	Sylhet	Total	ASSAM VALLEY	Goalpara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur	Total	Total for the province.
	No.		-	02	1	63			3	4	10	9	-	00		

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Districts Population January Pedruary March April May June July August September October Novel Cubban Sistember Sistem	registered during the year 1939	16	290 12,073	12,363	59,991	60,795	23,175	23,627	784	11,99	12,564	12,819	9,8 3	10,088	17,991	18,455	13,490	13,974	3,798	17-21	160,321	19-31	164,119	19-25
Districts Spendation January February March April May June July August September October Samua February	December	15	1,133	1,161	5,665	5,740	1,900	1,922	752	798	24 993	1,017	708	735	1,452	1,483	1,063	1,108	298	16-43	13,666	20-02	13,964	19-93
Districts Strong Light Strong	November	14	34	1,059	5,385	5,459	1,815	1,859	804	989	910	924	61 64 61 64	764	1,521	1,567	1,302	1,344	358	19-73	13,405	19-77	13,853	19-77
Startes Population January February March April May June July August July August July August July August July August July Jul		13	53 52	906	49	4,312	1,876	1,921	808	865	115	993	800	8222	1,621	, 1,668	1,311	1,376	327	18-03	12,530	18.36	12,857	18'35
Districts Population January February March April May June July August Aug	September	12	23	721	3,713	3,769	1,791	1,836	792	855	24 902	926	828	846	30 1,505	1,535	1,058	1,106	312	17-20	11,282	16.53	11,594	16.55
Districts Samual Population January February March April May June	1	11	64 C-	968	3,777	3,847	2,475	2,537	1,257	1,347	1,259	1,288	1,148	1,173	1,905	1,957	1,478	1,315	388	21-39	13,972	20-47	14,360	20-50
Districts	July	10	16	110	3,804	3,844	2,447	2,501	101	1,416	1,23R	1,261	1,192	1,217	2,240	2,280	1,280	1,311	330	18-19	14,300	20-95	14,636	59.80
Districts Surma Falley Stricts Surma Falley Surma Falley Surma Falley Surma Falley Si, 698 1,301 1,679 1,695 1,188 1,188 1,188 1,991 1,113 1,198 1,991 1,091 1,113 1,198 1,991 1,014 1,113 1,198 1,001 1	June	6	35	1,010	3,982	4,032	2,129	2,159	1,216	1,276	1,256	1,280	1,015	1,042	1,829	1,878	1,372	1,411	314	17.31	13,774	20-18	14,688	20-11
Districts Population January February March A S 6 6 6 6 6 6 6 6 6	May	80	1,091	1,122	4,488	4,559	2,033	2,067	912	186	1,306	1,323	39	903	117,1	1,749	1,094	1,144	349	19.24	13,499	19-78	13,848	19-77
Districts Surma Faller February February Manage Manage Manage Manage Manage Manage Manage Manage Man	April	7	1,183	1,198	5,034	5,102	2,163	2,194	1,030	1,090	1,239	1,264	14 789	803	1,126	1,166	893	918	278	15-32		19-72	13,735	19.60
Districts Districts Surna Valley February Feb	March	9	1,095	1,113	4,428	4,505	1,530	1,562	919	970	941	957	158	17.50	1,024	1,051	1,034	1,069	270	14-88	11,729	17-19	11,999	17-13
Districts Population January	February	10	1,079	1,094	72 6,086	6,158	1,269	1,286	1199	702	12 680	692	15 500	515	973	866	24 894	918	1000	12.18	12,142	17-79	12,363	17-65
Districts Popu	January	4	1,301	1,328	9,366	9,468	1,747	1,783	720	782	32 862	894	1,484	961	1,084	1,123	911	954	353	19-46	16,475	24.14	16,828	24.05
Surna Valley Surna Valley Rural Rural Total Urban Rural Total Total Urban Rural Total Total ur Total Total runlle for towns r mille for towns r mille of population of for the province	Population	12	17,394	572,091	51,108 2,920,052	2,971.160	23,885	941,949	49,111	1,036,013	12,434 609,744	622,178	11,782 580,151	591,933	25.612 975,288	1,000,900	29,374	181,591	220,700		80,73,116		8,523,816	:
char Suma Valle Rural Curban Bett. Curban Annrup Total Curban Annrup Total Curban Annrup Total Curban Rural Total			::	-	::	:	::		::	:	::	:	::	:	::		::		:	:	1			. ao
char Surna S	cts		Urban Rural	Total	Urban Rural	Total	Urban Rural	Total	Urban Rural	Total	Urban Rural	Total	Urban Rural	Total	Urban Rural	Total	Urban Rural	Total			circles	population	rovince	the provin
cha anna anna anna anna anna anna anna a	Distri		Sarma	-		-													Total for the to	per mille for	Total for rural	per mille of	Total for the p	Ratio per mille for the province
J S S Z Z Z Z Z Z Z			Cachar		Sylhet.		Goalp		Kamrup		Darrang		Nowgo		Sibsag		Lakhir			Ratio		Ratio	-	Ratio

Ratios have been calculated with reference to number of days in each month. This table includes municipalities and small towns in which registration of vital statistics is compulsory.

IMPERIAL STATEMENT No. IV .- Deaths registered according to age in the districts (rural circles) and towns of Assam during the year 1939

7	3.5		Female	21	5,973	28,739	625,01	5,357	6,6022	4,798	8,714	115'9	17,003	
Total	all ages		Male	33	6,100	2 287 18	12,296 1	5,857	6,542	3,025	172,6	616'9	7 952,236	34
			Lemale	36	936	3,523 3	35	ū	374	349	70	75	20,8	:
9	upwards		olald	n	1,129	4,789 3	971,136	9999	85	210	1,024	il il	8 827,01	33
-9	3 .		Lemple	z	317	1,941	213	390	385	162	120	22	4,912	:
Se and	year		olald	a	10	2,425	8	513	35	9	108	E.	1 166'9	1
73	3 2		Female	22	Ħ	1,852	15	349	368	ii.	98	\$	6,990	- 12
to and	yea		Male	Ħ	902	25,545	1,129	100	38	22	134	2	7,163 6,936 4,990	=
30 and	ars are		Lemsle	8	13	2,553	939	23	103	\$	800	3	1,163	:
8	ye		slak	2:	254	2,518	1,159	125	993	45	151	787	1,232	23
por	years years		Pemale	22	12	3,622	1,362	103	8339	393	1,039	145	9,862	:
87	ye		Mald	11	4119	2,394	1,077	500	305	339	ij	467	6000	
and	years years		Female	×	H	1,513	674	57	391	H	539	12	2,5899 3,166 4,312	:
			slab	11	147	1,126	283	133	ŝ.	1	7	286	3,106	23
and	years		Female	ä	8	12	989	122	青	192	900	500		;
-			»l*M	n	186	1,187	579	399	371	B	97	855	9 3,468	:
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	5 years		Female	8	934	4,074	1,962	1,157	943	1,027	1,687	1,261	13,045	
3	5 yr		Mald	19	200	1,280	1,948	1,134	1,064	975	1,738	1,135	13,400	:
			IntoT	22	2,836	14,677	5,282	2,252	2,939	1,001	3,342	2,24	35,253	150-78
	Total		Female	11	1,275	6,597	2,501	1,054	1,68	933	1,485	1,017	16,297	143-35
			blald	91	3	8,130	2,781	1,198	1,518	98	1,857	27	19,256	157-70
	Page Page		IntoT	22	3	2,215	1,112	Ē	629	Ë	ñ	â	6,622	:
	Over 6 months and not exceed- ing 12 months		Female	2	12	1,029	503	244	338	236	350	H	3,1%	
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	th and ling	1	Into T	22	9,60	4,475	2,1	293	1,352	185	1,109	138	11,302	- 3
	Dver I month and not exceeding 6 months		Female	=	85	2,073	1,016	ŝ	619	396	316	376	5,803 17,302	:
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Under 1 year			latoT	0	1,506	1,987	2,056	260	g.	619	1,509	1,636	16,629	
Under			lateT.	10	3	3,406	116	Ē	894	301	619	8	1,346	:
	orth	Female	Sam and tarto	1-	239	18.	376	591	239	E	267	ă	4,359 2,949 7,348	:
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B.—TOWNS Serins Palley	Silchar	Harlakandi	Haffong	Sylhet	Maulvibazar	Karimganj	Habigani	Sunamganj	Srimangal	Assen Valley	Dhubri	Goalpara	Gauripur	Gaubati	Barpeta	Palasbari	Nalbari	Terpur	Mangaldai	Nowgong	Jorhat	Sibsagar	Nazira	Golaghat	Dibrugarh	Tinnelia	Doom Dooma	North Lakhimpur	Total for fowns.	Ratio per mille	Total for province.	Ratio per mille
	-	01	-17	*	10	9	1-	- 00	0		-	00	19	+	10	9	Pe :		6	10	=	22	2	11	15	16	13	13				

STATEMENT No. IV(a)-showing mortality under one year by classes

Districts			H	Hindus	Muha	Muhammadans	Chri	Christians	Bude	Buddhists	Other	Other classes
			Number	Ratio per 1,000 births								
Cachar	:	:	1,486	15:11	1,395	10-21	61	.10	:	:	4	.20
Sylhet	:	:	5,510	62-27	9,348	105-65	67	.03	:	:	п	.12
Goalpara	:	:	2,158	09-69	2,397	77-31	91	2.93		:	735	23.70
Kamrup	:	:	1,952	97-73	309	15-47	-	.35	1	.05	144	7.21
Darrang	:	:	2,144	116-43	269	14.61	225	12.22	:	:	355	19-28
Nowgong	:	:	1,290	92-12	443	31-63	19	1.36	4	.28	175	12.50
Sibsagar	:	:	3,071	107-58	85	2.98	15	25.	9	-21	241	8-44
Lakhimpur	:	-	1,939	87.25	7.00	3.51	126	2.67	21	16.	240	10-80
Fotal	:	1	19,550	19-08	14,324	59.08	488	2.01	32	-13	1,905	7.86

Separate figures for Indian Christians are not available.

IMPERIAL STATEMENT No. V.—Deaths registered a cording to class in the districts of Assam during the year 1939

	socs		latoT	22		13-91	25-23	18-78		37.41					41.03	48-58	33-98	33-44
83	Other classes		Lemale	31		13-14	25.53	18-48				32-46	31-13	55.48	42.68	57-33	34-55	33-99
1	Orth		Male	30		14.62	24.96	19-06			42.02	35-33	31-63	19-37	39-57	41-40	33-45	32-91
			IntoT	69		:	: 1	:			3-20	2.39	16.64	:	23.26	17-90	17-17	17-01
	Buddhists		Lemaje	90			:	:			92.9	:	01	:	23-35	22-60	20-68	20-53
ation	Bus		Male	27		:	:	1			:	3-31	14.00	:	23-73	14-29	14.68	14.52
Indod 1			Total	3.6		10-82	3-38	98.9			18-43	15-16	28.02	15-27	14-17	27-83	81.18	20-14
0 000'1	Christians		Female	23		13-73	3-13	8-31			21-95	12-17	26.01	12-66	14.88	30-64	22-05	21-07
hs per	ð		Male	**		8-37	3.33	5.67			15.30	19-11	29-78	14-90	13.56	19.52	20-44	19-35
Ratio of deaths per 1,000 of population	sur		IsioT	52		23-48	21-44	21-66			25.32	8-24	16-55	12-76	13-21	15-30	17-28	20-17
Ratio	Muhammadans		Lemale	21		24-41	21-15	21-49			25-55	8-19	12.91	13-13	14-19	18-76	17:54	20-19
	Muha	-	Male	54		22-64	21.75	21 00 12 23			25-56	8-29	16-43	12-45	12.24	13-64	17-05	20-15
			IntoT	50		20-73	19-61	19-45			99.12	12-07	19-90	18-77	17.88	16.91	17-28	17-94
	Hindus		Female	19		21.75	19-03	19-63			21-70	12-27	21.02	19-35	18-36	17-91	17-80	18-37
	Н	1	Male	200		19-83	11-61	82-61			21.64	11-89	18-95	18.26	17-45	61.91	16-83	17.56
	5003	-	Total	11		19	110	189			3,635	108	1,493	681,1	1,446	883	9,354	9,543
	Other classes		Female	91		36	23	68			1,729	323	693	623	200	470	4,544	4,633
	Ō		Male	15		43	5.1	100			1,906	385	800	999	740	413	4,810	4,910
	34		Total	2	13	:	:	:			67	61	23	:	99	109	200	200
	Buddhist		Pemale	13		:	:	:			61	:	6	:	29	93	9	100
			Male	12	-	:	:	:		T	-	01	12	:	37	69	98	100
			IntoT	=		31	=	53			367	8	469	18	201	446	1,654	1,696
-	Christians		Female	10		00	10	23	-		206	n	201	40	97	215	792	10
Number of deaths registered	Chr	-	Make	6		13	9	19			191	57	268	4	104	121	862	- To 80
eaths re			IstoT	80		188	502	386			10,643	2,102	1,189	2,387	622	428		
er of d	nadans	-	Female			2,396 4,884	17,889 37,502	285 42,			5,004 10,	969 2,	533 1,	1,135 2,	295	170	8,106 17,371	391 59,
Numb	Muhammadans	-	Mennall	-				22,101 20,285 42,386	-		5,639 5,0	1,133 9	656 5	1,252 1,	327 2	258	9,265 8,1	48,172 44,751 92,923 31,366 28,391 59,757
	N		Male	9		2,488												3 31,3
			Total	10		7,369		14,809 30,511			8,980	960'6 6	7, 9,647			2 12,108	32,440 29,942 62,382	1 92,92
	Hindus	1	Female	-		3,727 3,682	911,116	2 11,80			2 4,138	4,419	4,677	6 3,115			0 29.94	2 44,75
		1	Male	n		3,727		15,732			4,842	4,677	4,970		8,339	6,296		
		Districts		01		VALLEY	Sylhet	Total		VALLEY	Goalpara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur	Total	Total for the province
			.oN	-		-	64				00	*	10	9	-	- 00		- to see

91 'ON 22-97 Mean of previous 22:34 22-35 38 29-97 22 8 From a 69-61 57 21.16 20-54 25-06 16-31 19-02 16-93 18-45 17-93 18-28 population For the year 20 0-53 1-12 6-50 2-94 6.03 1.67 1.08 1-49 10.1 16.3 2.68 All other causes 90 0.27 0-24 0.24 0-14 0.29 0.13 0-20 0.28 0.19 0.51 per 1,000 1.34 50 99 7 26 10 2 Respiratory diseases .31 1.58 of deaths 1.30 1.22 2.37 200 99. 1.10 2.35 Dysentery and diarrhoea 1.4 2:21 1.31 10-92 11.25 13.60 13.21 12-39 11:31 23-81 10 57 Fever plague 99 16 80 0.2 98 8 15 xod-liems 36 01 00 63 2 10 69 36 Cholera 12,093 72.064 11,214 13,490 12,564 9,823 160,321 166 17,991 88,257 = tetoT 17,332 33,885 20,940 12,945 3,694 146 All other causes 1,770 702 616 149 851 53 34 174 12 198 LesoT -00 94 12 38 99 Rabics slamina Injuries 16 10 20 25 = 147 190 50 01 53 Snakes and wild stuap 1,259 120 809 728 63 27 42 137 531 Wounds or acci-Esmale 25 200 23 99 999 Surcide Male from 335 # 31 12 25 143 187 1 3,546 5,488 1,190 1,125 1,197 1,942 745 181 Deaths Respiratory diseases 2,290 1,663 6,265 11,156 1315 4,891 Dysentery and diarrhoea 63,779 .. 102,872 39,093 22,017 90,88 7,763 7,889 6,709 33,038 Fever plague 2,146 1,763 1,763 93 24 383 xod-flems 3,004 2,383 2,584 22 120 = 201 Cholera 34.86 29-80 30-60 28.26 9 32.60 26.81 22 28.64 Birth-rate ė 128 235,793 106,344 19,337 27,858 21,544 129,449 87,007 30,147 1,3569 18,031 IntoT 9,333 41,518 50,851 113,688 6,593 10,521 14,537 8,931 Births 122,105 55,493 66,612 45,489 10,001 9,593 260'6 6,976 14,313 11,023 15,610 Male Fotal of districts excluding towns 8,303,116 34,74,750 152,217 554,698 2,920,052 924,064 975,288 1,828,366 580,151 Estimated Population DISTRICTS EXCLUDING TOWNS Surma Valley District: and Assam Valley Total Goalpara towns Nowgong Darrang Kamrup 64 Total ON.

the province of Assam during the year 1939 districts and towns of the IMPERIAL STATEMENT No. VI. - Deaths registered from different causes in

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		13-04	22-96	29-41	14-91	13-15	17-90	20-17	19-63	6.85	16.07	16-44 16-45 15-76 15-76 15-76 16-45 16-45 16-45 16-45 11-96 11-96 11-96 11-96 11-75 11-75	18.02	17-40	19-69
		15-43	22-70	19-66	17-04	89-6	17-03	98-91	13-43	12-24	15.97	21.61 19-52 19-52 19-52 18-91 18-93 17-98 18-65 18-65	17-71	17-21	19-25
-		6.24	16-01	98.9	7-30	62.9	7.64	69-6	8.62	3.06	7.53	11.14 17.31 17.31 17.31 17.31 17.32 17.33	61.1	7-29	4.16
-	1	98-0	1:31	:	0-29	:	85-0	16-1	:	:	09 0	0.28 0.28 0.24 0.35 0.48 0.68 0.53 0.51 0.51	54	95.0	23
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-	1	2.30	3.06	17.1	1.88	.62	91.4	1.55	-11.	2-45	1.97	1.70 1.65 1.65 1.61 1.61 1.61 1.61 1.73 1.73 1.73 1.73 1.73 1.73 1.73 1.7	2.30 2.	2.20	1.36 0
-		2.87	7.42	18.9	89.1	3.06	3-18 4	1.67	3-81	5-51 2	69	5.5.3.8 1 4.4.	5.04	4.62	12-19
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		13,933	2,291	1,170	23,941	4,857	6,284	8,362	6,030	1,634	68,502	10,597 7,141 6,147 6,147 24,249 1,751 1,827 1,782 1,782 1,782 1,782 1,503 2,888 4,977 1,990 1,990 1,961 1,961	152,198	220,700	8,523,816 125,573
50	alle		:	:	:	ar		:	:	:	:	P ::::::::::::::::::::::::	:	the	c. c.
TOWNS	Surma Valley	Silchar	Hailakandi	Haflong	Sylhet	Maulvibazar	Karimganj	Habiganj	Sunamganj	Srimangal	Total	Assaw Valley Dhubri Goalpara Goalpara Gauripur Gauhari Sabatsari Nalbar Tezpur Nangadai Jorhat Silsagar Silsagar Silsagar Silsagar Silsagar Suboom Dooma Doom Dooma Puraukia	Total	Total for the towns.	Total for the province.
100		-	61	00	4	10	9	-	00	6		0101121221222222222			

This table includes municipalities and small towns in which registration of vital statistics is compulsory.

Whooing : : Ratio : : : 17 Destpa Pulmonary Other tuber respiratory culosis diseases oitaM 2 : : Deaths oits R : 12 20 9 Deaths Pthisis oitaM 22 Deaths Pneumo-: Gutan 57 # 28 2 2 36 53 31 20 Deaths Diar-rhora : Oina A 21 2 97 10 12 10 19 17 Destpe Dysen-tery Ratio 8 18 30 12 8 30 37 Deaths 22 Gatio Other 9 Deaths # 80 = 86 35 24 54 = Ratio Black water fever 0 Desths . Measles ough 20 Destp : : Typhus : : Ratio 22 Deaths : Cerebro-spinal fever Ratio : : Desths agar Influenza : Ratio Deaths 65 65 Ratio Kala 01 Destps Enteric Ratio Ducths 00 10 = Relap- Malaria sing fever Ratio 16 Deaths 12 10 33 00 10 17 Ratio Deaths : : TOWES Silchar .. Karimganj Tezpur .. Gauhati ... Barpeta ... Dhubri .. Shillong ... Habigani Goalpara Dibrugarh Jorhat

Supplementary (optional) Statement VI(a) for the year 1939

This table includes municipalities and small towns in which registration of vital statistics is compulsory,

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54501-0

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1.07 .43 94. 119 4 6 6 1 7 9 25 Mean ratio per 1,000 of previous five year 36 9613226 8 35 7 Total T Ratio of deaths per 1,000 of population 23 E 943229 90 34 ** Female .75 41 264329 8 36 21 Male 227 173 179 179 111 2,390 2,954 3,020 462 53 IntoT 1,126 1,205 1,386 Total 35 35 35 35 181 30 Lemnic 1,634 1,389 125 252238 6 Male ... 110 9 94 1111 2 December ... 13 27 November -0 01 80 50 4 28 38 9 October :00 eo 10 : : : : September 00 2 55 33 18 34 # 1suguA :00:4 :02 15 35 20 ámf 2 June 24 : co : 4 w : 12 120 12 313 93 144 92 25 = May 205 22 290 83 67 43 2 lingA March : 4 51 198 33 33 41 8 24 462 438 :53 Kepmark January 38 396 4354 7.7 1,192 1,022 170 from cholera were reported 123624 117 Number from which deaths 9 Villages 3,188 2,738 1,978 2,323 2,284 2,498 15,009 28,333 1,607 13,324 Number in each district 10 52 88 Number from which deaths from cholers were reported 36 99 Circles of Registration 149 85-48155 95 13 Number in each district Surma Valley : : Assam Valley Goalpara ... Kamrup ... Darrang ... Nowgong ... Sibsagar ... Lakhimpur . Total province. District Total Total for Cachar 04 8450000 - 03 No.

·oN 22 -01 m 4 10 10 1- 10 Mean ratio per 182 50 .13 24 21 0 lo 000,1 ber ... 0861330 08 56 :51 36 Total of deaths of of population 51.53.10 .51 60 27 255 : 59 Female Ratio 1,000 02 0 1 1 2 1 0 0 ... 50 98 25 Male 416 416 34 33 34 33 34 35 Number of deaths among 23 Oue to 10 years 268 268 30 23 349 Under I year 28 1,792 1,792 2,197 222222 405 21 Total 1,075 873 873 202 20 Lemaje Total 1,122 616 919 36 37 37 43 74 6 203 19 Male 115 115 63 to - : : 00 123 December 4--:9 65 1 9 7 November -----142 124 124 18 October 911 911 136 12 : 130: 20 September # : - 5448 38 159 1sn8ny :21 121 22 13507 :22 122 156 34 April 0.444 242 242 283 # 22 aunf 358 264 264 138 17 6 2 May 13 5 21 229 9 229 9 April March 1712 63: 160 160 62 0 Pebruary 136 156 136 20 60 Arenue[:86 122 98 24 P# Number from which deaths from small-pox 753 438229 878 25 Villages 3,188 2,738 1,978 2,323 2,284 2,498 711,111 13,324 15,009 28,333 Number in each district Number from which deaths from small-pox were reported 29 8000-10 02 50 Circles of Registration 13 54 272272 95 Number in each district Total for the province 1 1 1 Assam Valley 11 Goalpara . Kamrup . Darrang . Nowgong . Sibsagar .. Lakhimpur . Surma Valley Total Total Districts Cachar 04 80 -10 0 t- 00 - 03 No.

IMPERIAL STATEMENT No. VIII. - Deaths registered from small-pox in the districts of Assam during each month of the year 1939

No. 36 12.25 10.68 12.59 12.28 21.00 9-45 9.05 09-6 12.22 90.01 Mean ratio per 1,000 of previous 25 12.19 12.18 12.19 Ratio of deaths per 1,000 of population 12-96 10-70 11-10 23.37 12.55 13-42 10.46 8 13 8 9-01 Total 96-01 10-95 23.16 13.93 13.09 16-91 12.66 10-49 8.80 Female 53 10-50 12-85 11.39 11:25 23.56 12-45 10.42 12.98 8.67 22 Male 103,892 6,120 33,226 22,166 64,546 9,338 39,346 7,808 7,947 6,821 Total 54 49,003 30,324 2,944 15,735 18,679 10,388 Total 4,455 3,606 4.916 3,868 3,091 20 Female 54,889 34,222 3,176 20,667 11,778 4,883 4,202 4,079 5,550 3,730 17,491 19 Male 3,137 1,811 5,186 8,880 3,694 635 193 557 591 783 573 December 100 8,403 2,938 3,418 1,683 4,985 680 663 580 575 830 654 = November 5,161 2,882 8,043 2,486 849 674 396 597 872 583 16 October 966'\$ 7,657 1,736 2,307 2,661 929 699 354 829 530 13 September 9,916 2,445 2,940 2,402 6,976 1,122 1,085 495 638 * 1sn8ny 10,539 2,468 7,638 433 2,901 2,390 1.194 1.014 1,614 Apnf 23 9,533 2,353 2,924 2,046 114 964 571 761 161 2 aunf 1,946 5,760 8,941 2,549 047 3,181 734 632 784 685 564 ARM 8,596 5,292 2,039 2,847 3,394 547 693 617 585 422 IndA 01 4,344 7,256 2,912 1,463 2,401 542 509 511 727 581 522 March 7,034 2,926 3,599 3,435 509 1,231 506 101 540 383 Rebrusty 4,049 9,044 4,369 5.00\$ 1,630 358 553 635 561 423 Arenuef' 21,323 3.040 9,067 11,717 12,256 reported 539 629 1,249 deaths from fevers were Number from which 2,584 15,009 1,697 717,11 3,183 1,978 2,323 2,498 13,324 28,333 Number in each district Number from which deaths from fevers were proported Circles of registration 13 17 144 12 9 25 = 17 = 17 8 17 14 12 17 18 17 13 54 95 149 7 Number in each district Total for the Province SURMA VALLEY ASSAM VALLEY Districts Total Total Lakhimpur Nowgong Sibsagar Goalpara Darrang Kamrup Cachar * No.

IMPERIAL STATEMENT NO. IX. - Deaths registered from fevers in the districts of Assam during each month of the year 1939

48

1														1
	, S.	36	-	61			*	7	10	9	-	00		
EUOPOUS	Mean ratio per 1,000 of p five years	25	1.81	1-17	1.27	111	.19	4.	1.70	.68	2-40	2.59	1:31	1-29
deaths per population	IntoT	24	10.4	1.24	1.42		.35	.43	1.69	1.18	2.36	2.21	1.33	1.36
of deat	Lemale	64	2.31	1-19	1.37	n	.30	.38	1.68	1.08	2.36	69	1.31	1.34
Ratio of 1,000 of	Male	13	57-2	1.28	1.46		.39	.48	1.69	1.26	2.35	2.08	1.34	1-39
	latoT	2	1,356	3,670	5,026		330	448	1.049	269	2,360	1,731	6,615	11,641
Total	Female	20	624	1,709	2,333		135	187	419	301	1,107	8355	3,044	5,377
	Male	19	132	1,961	2,693		195	261	570	396	1,253	968	3,571	6,268
	December	18	66	298	397		16	29	99	3000	175	64	376	173
1 10	November	11	86	286	58.5		60	34	68	19	155	159	535	919
1	October	16	40	181	97 68		13	40	18	57	232	179	602	580
1	September	15	54	169	65 65 65		15	51	25	59	178	138	525	748
	AuguA	14	1	180	125.7	=	35	49	101	42	234	204	705	962
1 5	Ylul	13	65	206	265		51	26	128	65	275	195	763	1,028
TE.	anl	12	116	206	64		13	46	06	17	328	236	784	1,106
1	Мау	=	160	259	419		7	35	118	63	264	179	100	611':
	linqA	10	199	376	12.		7	64	142	99	189	1119	589	191'1
TE	Магећ	6	176	297	473		11	28	113	63	128	100	449	922
	Leptnary	00	119	404	50		00	19	33	3.6	102	53	249	112
	Yannael	-	135	808	016		46	29	42	24	100	97	338	1,278
nges	Number from which deaths from Dysentery and Distribots were reported	9	172	1,950	2,122		126	309	281	37	742	155	1,650	3,772
Villages	Number in each district	NO.	1,607	111,111	13,324		3,188	2,738	1,978	2,323	2,284	2,498	15,009	28,333
s of ration	Number from which deaths from Dysentery and Distributed	*	12	9,	65		16	15	13	10	11	11	28	140
Circles of registration	Number in each district	60	13	#	54	-	18	11	14	12	17	11	98	149
	Districts	votes towns	SURMA VALLEY Cachar	Sylhet	Total	ASSAM VALLEY	Goalpara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur	Total	Total for the province
1	No.	-	1	64	4-1			•	10	9	-	**		

IMPERIAL STATEMENT NO. X-Deaths registered from Dysentery and Diarrhoea in the districts of Assam during each month of the year 1939

	No.	26	-							1-	- 00		
enoiva	Mean ratio per 1,000 of pro- five years	25	1.64	9	19.	1	21.	1-15	.325	1.33	2.20	00 -1	-7.
1.000	IstoT	24	1.38	5	85.	74.		1.18	.35	1.17	1-66	-79	.70
Ratio of deaths per of population	Female	23	1.22	.30	17.	41.		1.12	.34	1.06	1.46	69.	65.
Ratio of	əlaM	23	1.52	15.	-70	.32	.38	1.22	.36	1.26	1.82	-87	08.
	IntoT	12	161	1,261	2,052	233	292	733	207	1,170	1,295	3,929	5,981
Total	Female	20	330	427	757	23	101	320	95	169	513	1,602	2,359
	Male	19	199	834	1,295	159	188	413	112	673	782	2,327	3,622
	December	80	2	00 00	166	138	23	33	13	111	100	298	191
	November	11	62	06	152	35	26	-1	155	160	103	360	512
	October	16	57	72	129	19	31	40	14	106	143	353	482
	September	15	46	67	113	16	11	37	12	60	18	245	358
	ym8my.	*	\$	113	162	14	21	26	51	120	123	356	518
Amf			51	66	150	15	19	89	22	86		30	457
June		12	13	113	186	10	25	100	22	101	96	350	536
	Yeld	=	63	93	156	18	19	83	20	==	97	346	504
	lingA	10	72	156	228	64	29	90	13	80	104	343	571
	March	٥	-	111	198	16	255	68	11	56	129	311	509
	Lepturery	80	11	140	217	18	31	34	10	8	123	296	513
	January	-	76	119	195	152	27	52	=	124	151	362	557
Į.	Number from which deaths from respiratory	9	164	554	718	37	141	126	32	61 60 69	80	198	1,516
Villages	Number in each district	ın	1,607	11,717	13,324	3,188	2,738	1,978	2,323	2,284	2,498	15,009	28,333
Carcles of Regis- tration	Number from which deaths from respiratory		=	38	69	15	15	п	10	16	11	18	133
Carcles	Number in each district	60	13	41	54	18	11	14	12	11	11	95	149
100 100 100	Districts	2	SURMA VALLEY Cachar	Sylhet	Total	ASSAM VALLEY Goalpara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur	Total	Total for the

IMPERIAL STATEMENT No. XI.- Deaths registered from Respiratory diseases in the districts of Assam during each month of the year 1939

IMPERIAL STATEMENT No. XII. - Deaths registered from plague in the districts of Assam during each month of the year 1939

	ģ.	26	- 61		m + 10 0 t+ 00	1	1
) kerts	Mean ratio per 1,000 of previous	25	111	:	-	:	1
per	TetoT	2.4	11	1	(***)	:	1
deaths f popula	Female	23	1	1	111111	:	:
Ratio of deaths per 1,000 of population	Male	21	11	:	m=	:	1
	IstoT	=	1:	-		:	:
Total	Female	92	B 4::	:	111,111	:	
	Male	19	::	:		:	:
1 3	December	18		1		:	
	November	11	11	1	111111	:	:
	October	16	::		111111		:
	September	15	::	:	::::::	:	:
	August	12	::	:	111111	:	:
	Appl	13				:	
	June I I I I I I I I I	12	3 41 1	:	740 I I I I I I I	:	:
	Мау	Ξ	11	:		:	:
	April	10		:	111111	:	1
	March	0	::	:	311111	:	1
	February	80	1:	:	111111	:	-
	Arennef	-	::	:	111111		1
2	Number from which deaths from plague were reported	•	::	:	111111		:
Villages	Number in each district	5	1,607	13,324	3,12,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2	15,009	28,333
e of ration	Number from which deaths from plague were reported	•	::	:	111111	:	1
Circle of Registration	Number in each district		13	54	81742171	95	149
Table 1	Districts		Surma Valley Cachar Sylhet	Total	Assam Valley Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur	Total	Total for the Province.
	ž	*	- 64		m 4 m 0 t− m		-

APPENDIX II

PROVINCIAL

Statement showing details of registration in compulsory areas

-		73	111111		0.000						
	8 8	per 1,000 the ages of	red during	ille	nille	deaths	nber of registered ing the year		ı-rate per nille	under Act	
	1210		giste	er m	per	.5	1.5	.5	1.5	ons	2
Compulsory registration area	ation	s at 288 between	births registered	rate p	rate	B	l se	a		prosecutions of 1873	iction
	Indo	birth	bird	-drii	birth	deaths	deaths	deaths	deaths	The state of the s	8
	led I	Stimated births married women 15 and 40	er of	l pate	para	ling	ding	ling	ling	B. C. O.	et of
	Estimated Population	Estimated births married women 15 and 40	Number of the year	Estimated birth-rate per mille	Registered birth-rate per mille	Including	Excluding	Including	Excluding	Number IV (B. C	Number of convictions
	2	3	4	5	6	7	8	9	10	11	12
18300	1	-	1	•	-		-	,	10	11	1-
Silchar	13,933	13	340		24-40	215	157	15.43	11.27	15	
Hailakandi	2,291		71		30.99	52	37	22.70	16.15		
Haflong	1,170		36	13	30.76	23	12	19.66	10.26	27	
Sylhet	23,941		716		29-91	408	335	17:04	13.99	1	11
Maulvibazar	4,857	1	107	13	22.03	47	24	9.68	4.94	10	10
Karimganj	6,284		158		25.14	107	85	17:03	13.53	6	6
Habiganj	8,362		250		29.90	141	115	16.86	13.75		
Sunamganj	6,030		169	1	28.03	81	53	13.43	8-79	6	4
Srimangal	1,634		71		43.45	20	20	12.24	12-24		
Dhubri	10,597		385	1	36-33	229	170	21.61	16.04	33	18
Goalpara	7,141	. 5	197		27.58	103	77	14-42	10.78	32	23
Gauripur	6,147		277		45-06	120	120	19-52	19-52	34	4
Gauhati	24,249	available	728	available	30-02	392	210	16.16	8.66	41	29
Barpeta	17,341	avai	770		44.40	328	309	18-91	17.82	1	
Palasbari	4,157	Not	155	Not	37.28	57	57	13.71	13.71	11	11
Nalbari	3,364		20		23.78	7	7	8-32	8.32		
Tezpur	10,607	5.	325	1 94	30.64	224	135	21.12	12.73	36	22
Mangaldai	1,827	-	58		31.74	31	20	16.97	10.95	6	6
Nowgong	11,782		435		36.92	265	178	22.49	15.11	26	19
Jorhat	9,274		306		32.99	183	116	19.73	12.51	1	
Sibsagar	7,503		158		21.06	67	27	8-93	3-60		
Nazira	3,858		82		21-25	43	43	11.15	11-15	} 40	
Golaghat	4,977		141		28.33	171	92	34.36	18.48)	
Dibrugarh	19,390		459		23.67	348	149	17.95	7-68)	
North Lakhim-	2,305		69		29-93	43	26	18-65	11-28		-
pur. Doom Dooma	1,961		17		8-67	19	19	9.69	9-69	27	19
Tinsukia	5,718	(Sale	135		23.61	74	69	12.94	12-07	}	
Total	220,700		6,635		30-06	3,798	2,662	17-21	12.06	352	172
+				-						-	-

A.—VACCINE DEPARTMENT

VACCINATION STATEMENT NO. I.—Showing particulars of vaccination in the province of Assam during the year 1939-40

						5	2													
		unseq pi	Average cos case perfor	21		Rs. a. p.	9 5 0	0 4 4	1 0 8	0 0 11	0 2 6	0 1 6	0 1 9	0 2 5	0 2 1	0 2 9	0 3 1	6 9 0	0 2 0	
SHOULE	accina	r-or br	nations ar performed staff only.	21		*	16,330	6,234	2,139	81,443	23,203	30,258	87,723	29,922	28,004	3,994	12,260	5,382	276,903	
vacci-	Injes	oons He	Number of		10	ń	0	6	9	0	0	0	60	9	0	0	0	0	0	-
none	uroon a		Departmen	20		Rs. a.	2,579 9	,676 \$	2,252 9	26 14	3,638 5	2,816 5	,092 8	,440 2	3,581 8	0 689	18 14	2,109 0	1 18	
			rese feed?			24	64	1,6	ei	4,726	65	04	4,0	*	60	•	2,378	oi	34,981	1
battu			Persons succ	19			41-65	38.28	58-74	134-17	42.24	62.70	24.63	20.67	129-53	47-07	63.29	36.84	02-99	
age of suc-	which the result were known.	tio	Revaccinati	18			50-42	48.98	50-53	48.53	64.49	57-79	57-38	54.51	30.46	56.83	72-97	53-56	55-37	
Percentage of cessful cases	which the re were known.	01,	Primary	17			19.96	98-27	88-19	99-46	99-04	95:63	96.02	93.52	16-66	100.00	93-14	64.35	96.18	
non		1102	пмопали	16			04 04 t-	109	451	3,667	1,856	2,886	5,388	4,913	511	37	2,047	532	23,611	SEE .
Re-vaccination		200	Successful	15		10,0	4,852	2,011	763	36,151	7,964	10,050	10,095	12,803	11,474	849	6,544	1,716	106,212	LIH.
Re		29.0	fatoT	14		10 1	10,345	4,707	1,961	18,161	14,112	20,277	22,981	28,402	18,215	1,531	11,015	3,736	215,443	26
>		1000	Ппкпочи	13		143	80	191	169	1,287	233	495	1,291	923	:	:	209	350	5,596	
tion	ful	soSte	Ile lo letoT	22		500	11,478	4,213	1,396	45,292	15,299	20,208	27,628	17,119	15,530	3,145	5,716	3,666	170,690	
Primary vaccination	Successful	srea.	One year under six y	=		BZ 4	9,163	3,337	737	34,868	10,656	14,085	20,693	13,689	11,253	1,642	4,819	2,791	127,733	-
Primar		.res.	Under one y	10		321	1,214	347	250	2,482	1,268	1,181	3,504	1,180	1,576	365	455	875	14,697	
		ANT:	Total	6		tori	11,961	4,448	1,752	46,821	15,680	21,627	30,065	19,228	15,539	3,145	6,744	950'9	183,069	-
Tolen	po pe	pà cacp noper	Average nu vaccinated	00		801	1,312	1,308	619	4,451	1,655	2,465	1,768	2,268	5,626	2,338	2,537	4,896	2,475	
rsoms		07-01	IstoT	t-		800	22,306	9,155	3,713	124,985	29,792	41,904	53,046	47,630	33,754	4,676	17,759	9,792	398,512	17
number of persons	vaccinated	Car.	Lemaic	9		110	9,078	3,593	1,462	58,273	13,749	19,113	24,879	21,284	17,554	2,450	7,867	3,963	183,265	100
Total nu	Y.	300	Male	10		30	13,228	5,562	2,251	66,712	16,043	22,791	28,167	26,346	16,200	2,226	9,892	5,829	215,247	518
Jest	out the	oqSnorq	Average num	4		-	17	t-	9	50	18	11	30	23	9	04	1-	04	191	
aqu ;		1117	Year 1939 Year 1939	63			392,103	162,595	36,757	266,909	549,376	482,544	690,577	590,558	216,193	84,857	192,810	146,070	4,151,437	100
		Districts or	00 0 0 40 11 0 12-71 0	61	A.—DISTRICTS	TOWNS) Surma Valley and	Hill Division Silchar Subdivi-	sion. Haitakandi Sub-	division. Haflong Subdi-	vision, Sylbet Subdiv-	sion. Karimganj Sub-	Maulvi Bazar	Subdivision. Habiganj Sub-	division. Sunamganj Sub-	division. Shillong Subdi-	Jowai Subdivi-	Rohima Subdi-	Vision.	1	Division.
		No.		-	1	-	1	CH	00	4	1/3	9	-	00	6	10	п	12		1

		20	64	1 5	64	1 1	2 0	60	64	6 6		3 0	4	61		9 8	13 4	8 10	4
		0	5	0	0	0	0	0	0		0	0	0			0	0.1		•
	39.626	16,509	36,933	24,558	23,147	21,953	41,922	14,177	10,294	13,348	21,417	8,861	11,818	284,563		15,592	2,595	375	580,027
-	•	•	0	60	6	0		0	0	0	*	0	0	m		0	•	9	0
	9	9 9	0 5	0 1	64	5 15	6	0	0 1	0	4 1	3 12	1 15	9		13	91	01	
_	8,258	2,516	6.035	2,134	3,215	2,155	5,312	2,359	1,468	2,328	4,517	1,648	1,801	43,750	1200	3,434	2,157	207	84,530
	61.08	59-96	55-35	18.91	63-00	65-06	72-26	40-73	29-65	47-66	36.21	55-11	59-29	26-60		38+38	44-43	58-11	59-75
	62-68	58-88	62-17	63.24	70-01	71-23	01.99	43-29	31-86	96.99	96-98	72-17	57-00	64-78	80	68-87	100-00	77-30	59-41
	96.30	95.20	95-63	95.43	92-24	91.62	96.18	93.53	94-43	95-50	60-86	96-22	93-77	95-23	N.	89-46	130-00	\$1.96	95.47
	3,516	1,337	6,201	1,745	1,296	1,970	64	1,359	946	270	5,479	713	139	25,613	To the	896	1,728	451	51,944
	10.941	4,334	10,801	6,705	9,149	191,01	11,432	2,983	376	610	7,857	848	4,322	80,519	9	3,794	1,325	126	
-	21,140	-	23,574	12,348	14,364	16,235	17,220	8,290	2,126	1,181	14,520	1,888	8,322	149,906	15	6,417	3,053	187	375,066 191,976
-	3,448	- 66.50	2,038	883	401	403	:	672	4179	870	137	158	161	11,029	67	1,337	602	+	18,568 37
100	28.685		26,132	17,853	13,998	11,792	30,490	161,11	816,6	12,738	13,560	8,013	7,496	201,044 1		11,798	1,270	549	388,051 11
-	-	-		_				- 10		320				-			627 1	168	Company of the last of the las
_	17.312	-	19,289	12,425	6,275	7,294	17,654	8,776	9,045	9,121	10,341	6,082	1,513	132,393	9	4,191			265,112
-	4.537		4,250	1,494	5,072	2,507	9,470	1,063	318	1,995	1,875	1,107	5,983	42,886	0	6,365	441	8	64,627
	33,236	13,494	29,363	19,590	15,577	13,273	31,702	12,640	11,282	14,208	13,961	8,486	, 488 88	225,300	2	14,525	1,872	263	425,029
	1,875	1,849	1,176	1,452	1,302	1,639	1,882	1,163	1,219	905	1,187	1,297	2,401	1,443		2,334	985	450	1,835
-	54,376	22,192	52,937	31,938	29,941	29,508	48,922	20,930	13,408	15,389	22,481	- 10,374	16,810	375,206		21,002	4,925	450	800,095
	25,195	009'6	22,586	13,528	14,070	13,168	19,296	7,776	5,994	7,042	12,198	4,698	7,997	163,148		8,836	2,130	179	357,558
-	29,181	12,592	30,351	18,410	15,871	16,310	29,626	13,:54	7,414	8,347	16,283	5,676	8,813	212,058	181	12,166	2,795	271	442,537
-	29	12	45	13	23	18	5	18	=	11	24	00	-	260		0	10	-	436
	648,721	275,343	667,298	319,604	367,423	242,321	580,151	348,029	347,215	280,011	591,445	160,772	118,991	5,027,677		406,294	58,400	6,381	9,707,609
	Assem Velley Division Diubri Subdivi-	sion. Goalpara Subdi-	Gauhati Subdi-	Barpeta Subdi-	Tezpur Subdivi-	Mangaldai Sub-	Nowgong Subdi-	Jorhat Subdivi-	Sibsagar Subdi-	Colnghat Subdi-	D.brugarh Sub-	North Lakhimpur	Tura Subdiv-	Fotal of Assam 5 Valley Division.		Imphal	Sadiya Subdivi- sion.	Balipara Frontier Tract Subdivi- sion.	Total of districts 9,707,609 towns).
	13 D	14 G	15 0	16 B	17 1	18 N	19 N	20]	21 8	22	23 D	Z.	2		1	36	64	88	

A.—VACGINE DEPARTMENT

VACCINATION STATEMENT No. I.—Showing particulars of Vaccination in the Province of Assam during the year 1939-40

					54											
-130E/-	t pg A	case performed by	62	ė .	9 9		8 0	9 \$	*	67	5 6	2 10	8 9	1 8	-	1 10
		Average cost of eac		Rs.	- 0		•	0	0	•	•	•	0		•	0
anoin	accina	Number of all succe nations and re-v performed by the staff only	21		456	48	12,194	105	423	121	553	\$58	172	98	115	15,903
		Department	20	24	0 0		0 0	14 6	0 0	0 0	0 0	2 6	0 0	0 0		9 8
noise	Vaccin	Total cost of the	-		486	:	522	112	62	97	94	86	320	10	:	1,787
botan	noise	Persons successfully per 1,600 of popul	19		45.39	41-03	50-93	63.81	87-09	74-05	66-13	95.26	31-65	29-07	61-60	160-67
age of	the re-	Re-vaccination	18		100-001	00.09	44.50	66-94	39.02	29.63	47-93	40.00	1.33	39-26	35-91	35.46
Percentage of successful cases	in which the re-	Primary	11		99-45	75.00	94.36	99-43	100-00	93-75	99-25	99.26	100.00	100-00	300-00	16-96
uo		Пикломп	16		2 10	0	7,347	104	=	:	163	2.4	**		62	7,967
Re-vaccination		Successful	15		* *	12	10,939	226	318	16	290	333	96	36	93	12,451
Re-		LetoT	14		2000	56	31,931	585	926	54	768	156	6,791	9.1	341	43,081
-	-	Unknown	13	1	• :	•	232	9	:	:	:	-	:	:	1	248
us.	-	Total of all ages	12		100	36	1,255	175	105	105	263	225	682	62	82	3,452
Primary vaccination	Successful	under six years			20 00	12	507	69	7	63	152	132	351	34	57	1,558
nary v	Suc	One year and		:	1 1	10	552	66	19	80	011	53	067	15	55	
Prin		Under one year	10									7				1,578
		Total	٥		108	55	1,562	182	105	112	265	727	682	62	83	3,808
LEOUS	of pe	Average number	00		Ef. :	:	669'9	191	1,031	166	1,033	983	7,473	:	:	3,907
resons		Total	1		111,	7.0	33,453	167	1,031	166	1,033	983	7,473	153	424	46,889
Total number of persons vaccinated		Female	9		64 64	36	10,621	194	229	10	259	214	3,392	58	105	15,727
Total nu	-	Malc	10	:	2 23	61	22,872	573	802	96	174	691	4,081	668	319	31,162
reak o	out the	Average number of	-		- :	:	10	1	1	1	1	1	1	:	:	12
		Felimated populati	6		13,933	1,170	23,941	6,284	4,857	1,634	8,362	6,030	24,388	3,371	2,841	59,102
				2	: :	:	:	:	:	:	:	:	:	:	:	lley
		Томпя		B TOWNS Valley and Hill Division.												ision.
		Digities or Towns	01	Valley and I. Division.	. ibu			. jun	Bazar	- 12		anj .				Surn ill Div
		Distri		178	Suchar Hailakandi	Haflong	Sylhet	Karimganj	Maulvi Bazar	Srimangal	Habiganj	Sunamganj	Shillong	Jowai	Kohima	Total of Surma Valley and Hill Division.
	the in-	ý	-		n 64	. E	4	5	6 7	7 5	8 1	6	10 S	11]	12 K	-
		Z														

	######################################	13 0	9	:	4 10	105	1:	1.	1.	1	1	1	2 10
	00000000000000000	0	0		0	0	1		1.8	1:	3:		0
	2121 2121 2221 2322 2322 2322 2322 2322	5,460	2,937	381	24,621	604,648	:	:	: 11	:	:		604,648
	m_0400000000000000000000000000000000000	10 1	0 +	-	14 6	1 00		-		1		2 0	M
	261 621 621 625 625 626 626 626 626 626 626 626 626	1,393	1,194	;	7,374	91,905	:	:	:	:	:	15,056	106,961
	29-12 23-12 23-12 23-12 23-12 23-13 23-14 20-14 20-14 20-14 20-14 38-99 38-99	35.74	32.40	75.96	91-17	60-14	:		:	:	1:		60.14
	45-79 39-96 53-28 65-90 100-90 20-72 20-73 20-73 111-24 465-72 465-72 465-72 465-72 465-72 465-72 58-96	39.55	75'86	54-48	36-97	56-98	20.61	78-25	85.50	37.04	:	:	58-48
	97-08 100-00 92-12 98-36 99-04 100-00 89-15 99-15 99-15 99-18 97-89 86-61 100-00 91-89	95-82	90-10	100-00	06.16	95-46	94-27	94.82	84-12	98-59	:	:	95-41
THE REAL PROPERTY.	25, 26, 27, 26, 27, 27, 27, 27, 27, 27, 27, 27, 27, 27	006	146	141	9,154	860,19	5,124	2,334	896	1,006	:	:	79,368
	255 11 11 11 11 11 11 11 11 11 11 11 11 1	1,066	707	304	14,528	206,501	2,006	23,930	2,939	842		:	236,221
	165 570 570 570 1152 125 125 125 125 125 125 125 125 12	3,595	1,078	669	48,453	423,519	9,085	32,914	5,508	3,279		:	474,305
	7 : 7 \$ 7 : 2 : 2 : 7 : 17 : 17	72	386	6	715	19,283	505	519	*	17			20,448
1	25 25 25 25 25 25 25 25 25 25 25 25 25 2	4,334	2,230	77	10,093	398,144	2,007	29,717	19	488			430,417
	14.00 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1,977	602	5.	4,191	269,303	1,053	10,518	-	297		:	281,175
	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,329	1,343	20	5,270	169'69	637	17,432	19	101		:	87,889
1	22.8 23.2 5.39.9 5.39.9 5.31 5.30.9 5.40.9 5	4,595	2,861	98	11,350	436,379	2,694	31,910	92	512		:	471,571
1	1,050 1,050	482	1,313	785	1,812	1,833			:	:		:	2,617
	1,152 1,152 1,152 1,050	8,190	3,939	785	59,803	86,,653	11,779	64,824	\$85.0	3,791		:	945,876
1	251 484 488 350 350 350 103 451 103 455 103 451 103 451 103 453 103 103 103 103 103 103 103 103 103 10	3,320	1,632	356	21,035	378,593		30,820	118	879		:	410,410
	196 6885 8885 8885 115 116 116 118 886 886 886 886 118 118 118	4,870	2,307	429	38,768	481,305	:	31,004	5,466	2,912	**	:	523,687
	:	17	60	-	31	699	:	:			:	:	695
1	19.591 141.7. 14.6. 17.5. 17.5. 17.5. 17.5. 17.5. 19.5	151,091	90,637	5,020	345,850	10,053,459	:	:	:		:	:	10,053,459
Arsam Palley Division	Dhubri Goalpara Goalpara Gauripur Gauripur Gauripur Falashbari Tezpur Mangaldai Nowgong Jorhat Sibaagar Gioghat Nazira Dibrugarh Tinsukia Doon Doona	Total of Assam Valley	Imphal	Sadiya	Total of Towns	Total Vaccine Depart-	Total of Dispensary staff	Total Tea Gardens	Total of Jails, Mental Hospital, Police Hospitals and Infectious diseases	Total of Railway Dispen-	Total of private Medical	Shillong Vaccine Depôt	Grand total
	2422422222222222222		3	69									

Average cost of each	successful	15	Rs. a. p.	0 2 4	0 4 10	0 2 5	1 : :	arnegaene - I I anno	1000	-	0 2 10
Number of	ful vaccina- tions per- formed	14		580,027	24,621	604,648	: :	11			601,648
	Department	13	Rs. a. p.	84,530 8 9	7,374 14 6	91,905 7 3	1 1		200	15,056 2 0	1,06,961 9 3
Ratio of successful vaccinations	per 1,000 of popula- tion	12	THE DESTRUCTION OF SECOND	59-75	71-19	60-14					60-14
Number of children successfully vaccinated	One and under six years	=	100	265,112	4,191	269,303	1,053	10,522	11,872		281,175
Number	Under one year	10		64,427	5,270	269'69	637	17,451	18,192	:	87,889
ge number of ons vaccinated by each vaccinator	Persons vaccinated by each vaccinator	6		1,835	1,812	1,833	1 1	11. **. *	:	-::	2,017
Average persons v cach v	Vaccinators	æ	100	436	33	469					469
Percentages of success- ful cases in which the results were known	Re-vaccina- tion	t-	4	59-41	36-97	26 98	50-64	37-04	71-58	:	58-48
Percentage ful cases i results w	Primary	9		95-47	94.90	95.46	94-27	98-59	94-85	:	95-41
Total number of operations performed	Re-vacci- nation	NO.		1000	48,453	423,519	9,085	38,422	50,786		474,305
	Primary	•		425,029	11,350	436,379	2,694	31,986	35,192		471,571
imber of persons vaccinated	Re-vacci- nation		5 5	425,029 375,066 425,029	48,453	423,519	9,085	38,422	50,786	:	474,305
Total number of persons vaccinated	Primary	e4	3 7	425,029	11,350	436,379	2,694	31,986	35,192		471,571
	Total Sea Content Steams	A Property Laboratory	By special staff—	Districts excluding towns (Subdivisions).	Towns	Total	By dispensary staffs By private Medical Practi- tioners.	By Railway dispensaries By other agencies, Tea Gardens, Jail hospitals, Police hospitals, Mental hospital and infectious diseases hospitals.	Total	Shillong Vaccine Depot	Grand total

Summary

B.—DISPENSARY VACCINATION

IMPERIAL STATEMENT NO. II.—Showing Dispensary Vaccination in the Province of Assam during the year 1939-40

inknown cases	40,00 mg/g	SChr Holl		Re-vaccination		State trees			17	-	62.30	80-40	47.76			0.11			-	96.	32.59	79-07		26.40
Percentage of unknown cases to total cases	STREET STREET	this resul	Real san	Primary	Dales spins	political or work	1,000 1,000	series series	91		8-80	21.69	82-6		:	14.81	10.11			26.	8.26	26.92		20-97
Percentage successful cases in which the results were	THAT I	etere safes	187	Re-vaccination	th other markets	2000 0000	100	Salt atten	15		49-47	21.69	57.07	20.00	:	62-38	2			47-29	58 61	100.00	14.58	20.64
Percentage successful case in which the results were	The state of the s	THE TOTAL	Mary No.	Primary	W. C.	No. of the last	San ries	Oct. Market	14		98-25	97-48	85.61	83.10	81.82	59:50		100.00		79-41	94.68	100.00	300-00	94-27
		0 100	7	Unknown	The second		Train a	the Contract	13		2,479	1,985	181		:	92		: :	:	20	160	238		5,124
Re-vaccination		Balan I	100	Successful	97,530,0	100	- Long	arme !	12		742	105	113	28	:	210			:	244	194	63	1	2,006
a a		ALTE STA	-	Total	THE 211	-	DE PARTIE DE	the Mark	11		3,979	2,469	379	26	9	834		64		521	491	301	48	9,085
			-			UM	ous	пU	10	:	88	367	15	:	:	. 4	:		:	61	44	45	:	265
ation	-		-	52	Se	lls k	o las	oT	6	1	968	155	119	59	6	22		4	::	162	445	122	14	2,007
Primary Vaccination	Successful	Darces	xia 1	pun	· pu	e 1e.	s.rea		00	:	200	112	62	30	0	: :	::	63		72	108	81	4	1,053
Primar		100	-		Acu	oue	Jope	ın	-	:	11	58	200	97	•	: :	:	:	:	060	336	41	10	637
		The latest designation of the latest designa			7 7 7 7	77	Inter	οT	9	:	1,000	526	154	1:	7	27	***	4		206	514	167	14	2,694
baten	ioos	A SU	berso	lo re rotat	mbe	nu a	erag erag	q V	19		::	:			:	: :		::		;				:
pəi	eu;	лэсл	suosi	og bei) Jac	lumi	ı leb	oT.	7	::	4,979	2,995	533	121	07	198	***	9	*****	727	1,005	468	07	11,779
padaett	n ete	oten of or	ing th	jo sa	sine	beuz le un	erag	NAV	69		:	:	:	:	100	:		:		:			:	:
district	ch	es u	i esin i tot	estraq	sea u	lo re ich i	dwi dw	N.	61	:	:	:			::	:						:		
Safe particular and the safe of the safe o		The state of the s	Districts			The state of the s			1	Cachar	Sylhet	Naga Hills	Lushai Hills	Goalnara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur	Manimur Street	Cadina Promise Trans		Daupara Flourier Fract	Total

IMPERIAL STATEMENT NO. 111

Shouing the number of persons primarily occeinated and the number of those who were successfully vaccinated in the province of Assam in each of the under-mentioned official years

Vaccinating Agents	Agents		Total number	Number successfully vaccinated	Total number	Number successfully vaccinated	Total number	Number successfully vaccinated	Total number	Number successfully	Total number	Number successfully Total number Younder successfully Younder successfully	Total number	Number successfully	Total number	Assectinated Americantely	Total number	Number successfully vaccinated	Total number	Number successfully vaccinated	Total number	
		-	1936-31	157	1931-32	-32	1932-33	-33	1933-34	7.	1934-35	25	1935-16	36	1936-37	31	1937-38	38	1938-19	18	1939-40	
1			61		1	10	9	1	8	6	10	11	12	13	1	15	16	17	18	19	20	
Government	:	:	38,520	33,353	41,320	37,769	35,322	31,076	37,101	39,405	59,210	32,596	37,114	28,573	49,047	37,407	39,926	32,576	42,329	35,388	44,460	
Dispensaries	;	:	2,539	2,217	2,753	2,108	2,139	1,629	2,161	1,759	3,414	2,862	5,091	3,359	2,388	1,839	1,694	1,204	1,655	1,431	2,694	
Municipal	:	:	4,752	4,521	5,900	5,542	5,846	5,582	5,603	5,336	6,376	901'9	9,926	9,481	5,897	5,485	6,776	6,299	6,775	6,486	8,369	
Local Funds	;	:	250,393	230,321	250,148	221,525	284,814	257,327	311,975	272,296	296,742	272,775	325,199	293,466	323,815	272,546	337,418	297,724	359,457	325,249	365,770	338,626
Liscensed Vaccinators	:	:	:	:	:	:	:		:	:	-:	:	:	:	:	:	:	:	:	:	:	-
Apprentices	;	:	1,145	1,078	909	555	446	406	643	201	1,218	1,142	260	251	1,202	1,168	13	105	2,631	2,231	394	-
Native States	:	:	17,403	15,203	17,551	15,484	15,530	14,782	16,104	14,219	16,129	15,185	15,599	1,285	24,445	19,908	16,955	13,328	17,470	14,500	17,386	-
Tea Gardens	:	:	:	:	:	:	:	:		:	:	:	:	:	30,628	28,022	33,835	31,326	32,838	32,546	31,910	
Jails, Mental Hospital, Police Hospi- tals and Infectious discases hospitals.	Police F	fospi-	;	:	:	:	:		:	:	:	:		:	152	120	122	8	19	10	16	
Railway Dispensaries	;	:	:	:	:	:	:	:	:	:	:	:	:	:	343	326	200	471	929	809	\$12	
	Total		1000 010	000 010 010	-	0000	244 000	910 000	1000	107 600	000 000	200 666	001 000	217 700	10.00	100 770	100 017	100	160 000	110 011	100	

STATEMENT IV.—Showing the number of Vaccinations performed in Municipal towns on children under one year of age during the year 1939-40

5 5 5	10 1	one year of a	ge auring i	ne year 19	39-40	
Districts		Towns	Number of births during the year	Number of deaths among children under one year during the year	Number of successful Vaccina- tions on children under one year during the year ending 31st March 1940	Date of extension of Vaccination Act to town
1		2	3	4	5	6
Cachar		Silchar Hailakandi	349 100	32 12	181	21st January 1892. 10th November 1922.
		Sylhet Habiganj	750 245	97 33	541 39	1st October 1882. 11th December 1913.
Sylhet		Sunamganj	188	23	53	28th June 1915.
		Maulvi Bazar	170	16	96	27th July 1915. 16th April 1916.
Khasi and Ja	intia	Srimangal Shillong	73 766	59	20 682	9th October 1936. 21st June 1895.
Hills.		Total of Surma Valley and Hill	2,744	290	1,703	
		Division. Dhubri	410	50	161	13th February 1891.
Goalpara	***	Gauripur	213 265	17 44	95 115	12th November 1890. 15th September 1922.
Kamrup		Gauhati	718	82 56	415 212	August 1882. 29th October 1915.
Kamrup		Palashbari	154	12	130	16th November 1927.
Darrang		Tezpur Mangaldai	335 59	37 11	158 45	22nd May 1907. 12th October 1916.
Nowgong		Nowgong	425	50	289	7th April 1897.
Sibsagar		Sibsagar Jorhat	142 287	37	107	21st January 1892. 12th April 1892.
		Golaghat	131	17	51 32	24th March 1892. 1st December 1916.
Lakhimpur		Dibrugarh Doom Dooma Tinsukia North Lakhimpur	486 23 139 68	34 1 20 8	157 10 20 16	September 1883. 21st October 1918. 31st August 1922. 22nd June 1932.
		Total of Assam Valley Division. Total for the	4,711 7,455	497 787	3,747	
1 2 2 2 3		Province.				

tron trom	ps (rom	mori sd	77 101 27	Inheadon		moti ad	Inccessful	most edt	Intersoon	mon sd	[m]ssaoan	mos) sq	Intersou	mori ed	Intersoon	mori edi	Intersoou	mon st	Intersoou
vaccinations	Ratio of death	xoq-flams	Number of su vaccinations	Ratio of death	Number of su vaccinations	Ratio of deatl	Number of su vaccinations	Ratio of deat xoq-llams	Number of su vaccinations	Ratio of death smail-pox	Number of su vaccinations	Ratio of death	Number of su vaccinations	Ratio of death xoq-llams	Number of su vaccinations	Ratio of dear xoq-llams	Number of surface of s	Ratio of death mall-pox	Number of su vaccination
	1000	1931-1932	32	1932-1933	933	1933-1934	1934	193	1934-1935	193	1935-1936	1936	1936-1937	193	1937-1938	193	1938-1939	1939	1939-1940
**			10		-	00	6	10	п	12	13	14	15	16	11	18	19	20	=
19,418		:	19,255	:	24,418	:	22,822	:	27,002	:	28,069	90.	28,725	-111	33,434	:	26,863	:	25,321
129,243		.01 10	108,508	100-	116,176	.02	111,605	.03	120,612	-04	122,728	-25	143,670	99.	167,689	÷.	183,301	99.	218,437
12,967		.003 1	14,098		15,222	:	13,654	.007	18,494	.007	21,296	:	18,992	:	18,384	:	22,983	:	33,128
5,325	37	:	6,044	:	6,758	:	6,432	:	8,546	:	7,951	:	13,140	:	13,380		12,015	:	12,667
5,037		:	4,914	;	7,499	:	7,986	:	4,317	:	3,113	:	3,083	:	9,156	:	6,508	:	5,469
51,704		.29 6	65,171	.30	110,298	.04	94,802	.01	74,769	-002	56,281	.003	65,624	.008	54,503	-002	61,342	.03	57,025
49,825		.17 4	46,086	.17	41,043	.07	46,478	.10	46,534	.26	82,942	.27	55,250	.13	48,556	.08	53,034	.12	62,953
35,005		.04	24,716	-02	28,454	.04	30,935	90.	38,890	-05	42,799	90.	49,973	\$0.	26,107	\$0.	45,829	11.	46,018
28,873		69	28,507	:	28,051	.002	28,922	-03	37,916	50.	51,159	90.	52,967	.35	44,612	.54	45,930	.12	42,547
41,950		.07	34,567	90.	30,493	90.	35,214	10.	36,946	.13	44,429	.02	42,484	900-	33,770	.03	40,405	10.	38,519
25,601		111.	18,817	-03	24,440	800-	28,118	-01	34,550	.003	32,652	.003	29,148	900.	29,811	.01	30,011	.01	31,540
18,997		115 1	14,948	.03	13,978	90-	21,342	10.	18,855	10.	13,852	:	11,484	.005	10,268		11,766	70.	12,312
19,284		- ::	18,726	:	20,313	:	20,293	:	7,890	.35	29,127	.39	30,042		21,462	.01	19,973	:	19,168
6,777		:	4,123	60.	2,878	:	2,552,4	:	5,131	:	8,529	:	2,980		2,763	:	2,273	:	3,161
:		:	291	:	478	:	514	:	400	:	699	:	456	:	366		448	:	396
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A. G. P. (D.P.H.) No. 5-337-13-12-1940.

GOVERNMENT OF ASSAM

ORDERS BY THE GOVERNOR

Resolution on the Public Health Report for 1939

Extract from the proceedings of the Government of Assam in the Local Self-Government Department, Public Health Branch, No. 8731-L.S.-G., dated the 22nd November 1940

READ-

The Public Health Report for 1939.

RESOLUTION

The climatic, agricultural and economic conditions during the year were on the whole satisfactory. Rainfall was in deficit till the month of May but from that time onwards—except in the month of August when it was again in deficit—it left no room for complaint. Agricultural operations proceeded apace and, in the absence of any setbacks in the form of floods or prolonged draughts, resulted in a fair harvest. Prices of agricultural produce showed a slight rise owing, apparently, to the tense international situation which prevailed in the earlier part of the year and which later culminated in the outbreak of war in September. The sum total of all these factors is reflected in the general well-being of the people.

- 2. The agency for collecting the Vital Statistics remained the same as before and the figures representing vital occurrences in the different areas may be presumed to be as reliable as those of the previous years. In the working out of ratios, on the other hand, a change has been made this year; the ratios have been worked out not on the basis of the Census population of 1931 as hitherto but on what is termed the "estimated population". As the estimated population has apparently taken no account of the increase of population by immigration, the ratios pertaining to areas such as Kamrup, Nowgong, Darrang and Lakhimpur where immigration is active should be taken with caution.
- 3. The statistics show that, like the North West Frontier Province and Sind, Assam had a lower birth-rate and death-rate than the remaining provinces in India. The birth-rate (28·44) compares well with the quinquennial average (28·40) and the death-rate (19·25) with the quinquennial average (19·63). Infantile mortality was lower than in any other year during the last ten years but even so, the rate, viz., 149·73 per mille is high in all conscience. The table showing mortality according to sex and age shows that wastage of life is higher among the males till the age of 15 is reached after which till the age of 40, at any rate, the wastage is markedly larger among the females. It is perhaps safe to assume that this larger wastage of life among the female population is in some way connected with the strain of child bearing. This appalling loss of young mothers and children brings into prominence the need of expansion of Maternity and Child Welfare Work.
- 4. The saving of young life is, however, only a part of the bigger problem of protecting human life in general by preventive means. Of the diseases accounting for the deaths during the year, the chief ones are Fevers, Dysentery, Diarrhœa, Cholera and Small-pox.

The head "Fevers" includes not only Malaria and Kala azar but also various diseases having fever as their predominant symptom. It may not be possible to state the proportions of deaths occasioned by the various diseases falling under this head. But it is common knowledge that Malaria accounts for by far the largest number. The amount of sickness due to Malaria is even larger and the importance of carrying on an incessant fight against this scourge which literally saps the vitality of the population has constantly been before the mind of the Government. Apart from the anti-larval operations carried on in various places under the supervision and guidance of the Assam Medical Research Society, Quininisation is being extended to the limit of the Provincial resources, in spite of the stoppage of free supply of quinine hitherto made by the Government of India and the increase in price of the anti-malarial drugs due to the war.

There is probably room for more consumption of the anti-malarial drugs and as it would be impracticable to purchase all the amount needed, Government are directing their attention towards the cultivation of cinchona within the province.

Kala-azar continued to show signs of recrudescence. An increase in the staff and intensification of surveys led to a greater number of cases being detected and treated than in the previous year. Goalpara, Nowgong and Sibsagar between them accounted for the greater part of the increase. New treatment centres were opened wherever necessary and in Golaghat (Sibsagar district) arrangements were made for in-door treatment of cases which were either too ill to travel or showed complications requiring closer medical observation.

Typhoid fever is a difficult disease to diagnose and statistics even from town areas cannot be said to be reliable. It is suspected that contaminated water-supply is a contributory cause and Government would like to draw the attention of those municipal bodies which have not yet provided uncontaminated sources of water-supply to their responsibility in the matter.

Cerebro-Spinal Fever which claimed no less than 235 victims in the Naga Hills and Manipur State during the preceding year claimed only 11 during the year under report.

- 5. Cholera, Dysentery and Diarrhoea.—As against 11,907 deaths from Cholera in the preceding year the number of deaths in 1939 was 3,020 out of which no less than 1,470 occurred in January and represented the tail end of the previous year's epidemic. The death-rate was less than half of the decennial average and the year in question must be regarded as having been remarkably free from Cholera. The Department was on the whole prompt in sending medical aid but there is still room for improvement in the prompt reporting of first cases from out-of-the-way places. The question of effecting an improvement in this matter and in diffusing general knowledge as regards first steps which the villagers can take before medical aid reaches them is engaging the attention of Government.
- 6. Small-pox.—This was the only disease, the number of deaths from which was greater in 1939 than in the preceding year. Considering that vaccination is a sure protection and that, if the statistics of vaccination appended to the report year after year are to be believed, the entire population should have been vaccinated long ago, it would be well for the Director to find out whether and how far the failure is due to (1) the insufficiency of the staff and vaccine, (2) failure or reluctance of the staff to visit out-of-the-way places and (3) reluctance of persons to undergo vaccination.
- 7. Maternity and Child Welfare Work.—Mention has already been made about the importance of Maternity and Child Welfare Work. Progress has been difficult for various reasons; for one thing, neither the Government nor the local bodies nor the Red Cross Society have sufficient funds; for another, trained staff is limited. Nevertheless, further progress is being planned. With the growing appreciation of the work of "trained dhais" the demand for training of "dhais" is increasing. Facilities for informal training of a sort exist in various hospitals as well as at the Berry-White Medical School. The question of prescribing a formal course of training together with a suitable curriculum is under consideration. A Bill for registration of "dhais" along with Nurses and others is also under preparation.
- 8. Leprosy.—Government acknowledges with thanks the part played by the Missions and the British Empire Leprosy Relief Association in the relief of Leprosy. Among the leprosy colonies run by Missions and deserving of special mention are those in the districts of Sibsagar and Goalpara, while the British Empire Leprosy Relief Association has assisted by providing funds for the construction of several centres for out-door treatment and the training and entertainment of a special leprosy officer for the purpose of co-ordinating effort. It is hoped that the visit of Dr. Santra, Propaganda Officer of the Association in the cold weather will lead to the formation of a comprehensive policy and plan. Local enthusiasm would need to be kindled if steady progress is to be achieved.
- 9. Food adulteration.—This is unfortunately a growing evil. The administration of the Assam Pure Food Act has been far from satisfactory. Except in Municipal areas with Health Officers, there is hardly any attempt to enforce the Act. One of the difficulties probably is to enlist the co-operation of a sufficient number of local persons with the requisite spirit of public service and leisure. The procedure for sending samples for analysis strikes the average person as being unduly

elaborate but it cannot be over-simplified if the accused is to have a fair trial and his guilt definitely established. Government propose to investigate the suggestion that a substantial reduction in the rate of fee charged for analysis will help to mend matters.

10. Propaganda.—Government regret to note that Public Health Exhibitions which have an enormous propaganda value seem to have already fallen into disuse. Apart from the treatment of epidemics as they arise the main function of the Department lies in a wide diffusion of the science of healthy living. This diffusion has to be not of abstract ideas but of concrete shapes into which these ideas are translated and presented in a form suited to easy assimilation by the people. The Department has to be ready with type plans of model houses, latrines, uncontaminated water-supply, etc., suited to the means and conditions of the villagers. Balanced diet, causation and prevention of diseases, First Aid are also matters on which the public needs constant advice. It is only when solutions have been found in these matters and presented to the villager in a manner calculated to enlist his active co-operation that the Department will be able to look with satisfaction on its work.

The thanks of the Government are due to Lieut.-Colonel Hesterlow for the efficient administration of the Department.

By order of the Governor of Assam,

S. P. DESAI,

Secretary to the Government of Assam in the Education and Local Self-Government Departments.

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