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ANNUAL PUBLIC HEALTH REPORT

of

The Province of Assam for the year 1934

BY

LIEUT.-COLONEL T. D. MURISON, D.P.H., I.M.S., DIRECTOR OF PUBLIC HEALTH, ASSAM.



SHILLONG
PRINTED AT THE ASSAM GOVERNMENT PRESS
1936

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DIRECTOR OF PUBLIC HEALTH, ASSAM.

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GOVERNMENT OF ASSAM

OFFICE OF THE DIRECTOR OF PUBLIC HEALTH, ASSAM

No. 11090

FROM

LIEUT.-COLONEL T. D. MURISON, D.P.H., L.M.S., DIRECTOR OF PUBLIC HEALTH, ASSAM,

To

THE SECRETARY TO THE GOVERNMENT OF ASSAM
IN THE TRANSFERRED DEPARTMENTS.

Dated Shillong, the 15th August 1935.

SIR.

I HAVE the honour to submit herewith the Annual Public Health Report of the Province of Assam for the year 1934.

Your obedient servant,

T. D. MURISON, Lieut.-Colonel, I.M.S.,

[Director of Public Health, Assam.

GOVERNMENT OF ASSAM

OFFICE OF THE DIRECTOR OF PUBLIC HEALTH, ASSAM

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[Maximum limit of narrative portion of the report, 38 pages.] CONTENTS.

	111/200	111/1110			
	CHAI	PTER I.			
V				PARA.	PAGE.
METEOROLOGY, ECONOMIC CONDITIONS, 1.E	., PRICES	OF FOOD-GRAIN	8, ETC.	1	1
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CXI HE	TWARD	1600		
Economic conditions, prices of food-grains	s, etc.	***		2	2
CHAPT	PER II _	-VITAL STATI	erroe		
OHAF	LER II	- VITAL STATI	STIUS.		
(Including populat	ion and e	migration and	immigrat	ion.)	
General Census figures, provincial birth	and deat	h-rates, com	arison		
with other provinces				3	3
Birth registration, General		MAY HIS		4	4
Birth registration in urban areas				5	4
Birth registration, in rural areas				6,	4
Death registration, General	***			7	5
Death registration in urban areas				8	5
Death registration in rural areas	BUILDING	MANUAL TIX	BRUNKI	9	6
Seasonal incidence of mortality			distribution of	10	6
Registration in Hill Districts				11	6
Registration in Tea Estates				12	8
Registration on Railways		IIX BRAAV		13	8
Mortality according to sex, class and age					9
Registration in compulsory areas				14	10
Inspection of village registers of vital sta	tistics			15	10
General accuracy of vital statistics and in		nts effected	luring		
the year				16	11
Emigration and Immigration				17	11
Railway coolie camps				18	12
	CHADT	ER III.			
	CHAPI	ER III.			
THE STATE OF PUBLIC H	EALTH AND	THE HISTORY	OF CHIEF	DISHASES.	
				III - A W	
The state of Public Health in the Province	ce	11/200		19	12
Cholera			20070	20	12
Cholera in tea estates			***	21	13
Small-pox				22	13
High rates of mortality from small-pox	in individ	lual town and	rural		
areas	***			0.0	Time.
Plague				28	14
P.	balling a	ENTO - YLX	39 W A H	21	14
Fevers	milita a	mro – VLX	Da Wiah	21 25	14 14
Dysentery and diarrhœa	beliling a	enrO — VIX		21 25 26	14 14 15
Dysentery and diarrhœa Respiratory diseases		marO — VLX		21 25 26 27	14 14 15 15
Dysentery and diarrhœa Respiratory diseases Influenza		mrO — VLX		21 25 26 27 28	14 14 15 15 15
Dysentery and diarrhea Respiratory diseases Influenza Other causes		enrO — YLX		21 25 26 27 28 29	14 14 15 15 15 15
Dysentery and diarrhea Respiratory diseases Influenza Other causes Beri-beri		mrO — YLX	(nesteet)	21 25 26 27 28 29 30	14 14 15 15 15 15 15
Dysentery and diarrhoea Respiratory diseases Influenza Other causes Beri-beri Yaws		enro — VIX	(node of	21 25 26 27 28 29 30 31	14 14 15 15 15 15 16 16
Dysentery and diarrhea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints		earO — VLX	(code of	21 25 26 27 28 29 30 31	14 14 15 15 15 15 16 16
Dysentery and diarrhea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints Kala azar		MATO - YEX	(cosseet)	21 25 26 27 28 29 30 31 32 33	14 14 15 15 15 15 16 16 16
Dysentery and diarrhea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints			(coss off	21 25 26 27 28 29 30 31	14 14 15 15 15 15 16 16
Dysentery and diarrhea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints Kala azar		-VZ.WST91	(controll	21 25 26 27 28 29 30 31 32 33	14 14 15 15 15 15 16 16 16
Dysentery and diarrhoea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints Kala azar Leprosy		-VZ.WST91	(controll	21 25 26 27 28 29 30 31 32 33	14 14 15 15 15 16 16 16 16 18
Dysentery and diarrhoea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints Kala azar Leprosy Epidemiology	CHAPT	ER IV.	(rooss off	21 25 26 27 28 29 30 31 32 38 34	14 14 15 15 15 15 16 16 16
Dysentery and diarrhoea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints Kala azar Leprosy Epidemiology	CHAPT	-VZ.WST91	(rooss off	21 25 26 27 28 29 30 31 32 38 34	14 14 15 15 15 16 16 16 16 18
Dysentery and diarrhoea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints Kala azar Leprosy CHAPTE	CHAPT	ER IV.	(rooss off	21 25 26 27 28 29 30 31 32 33 34	14 14 15 15 15 16 16 16 16 18
Dysentery and diarrhoea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints Kala azar Leprosy CHAPTE Fairs and Festivals	CHAPT	ER IV PAIRS AND FEE	TIVALS.	21 25 26 27 28 29 30 31 32 33 34	14 14 15 15 15 16 16 16 16 18
Dysentery and diarrhoea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints Kala azar Leprosy CHAPTE	CHAPT	ER IV PAIRS AND FEE	TIVALS.	21 25 26 27 28 29 30 31 32 33 34	14 14 15 15 15 16 16 16 16 18
Dysentery and diarrhoea Respiratory diseases Influenza Other causes Beri-beri Yaws Minor eye complaints Kala azar Leprosy CHAPTE Fairs and Festivals	CHAPT	ER IV PAIRS AND FEE	TIVALS.	21 25 26 27 28 29 30 31 32 33 34	14 14 15 15 15 16 16 16 16 18

	C	HAPTER VI	IRUBAL.		PARA.	PAGE.
Sanitation					38	19
		TENTS.	1000			
		CHAPTER	VIII.			
Malaria		APTERI	HO		39	19
Sale of quinine	.0785 .000	AUD-DOOR TO HE		Secretary of	40	20
		OFF. PRINCE				
		CHAPPE	KIX.			
Maternity and child welfare					41	28
		PATO JATEV -	LAPTER			
		CHAPTE				
School Hygiene and medical in	spection	of school childr		d landalyona	42	23
		CHAPTE	R XI.			
Health propaganda	***		· V	Provide made	43	28
Indian Red Cross Society		***		NOTES IN	44	28
CHAP	TER X	ПРовыо Н	EALTH ADM	INISTRATION	the of soll	
						ntarget dies
Budget grants for the Departm	nent			atola	40	i noitarhigo
			1			
	CHA	PTER XIII	-VACCINATIO	ON.		
Introductory			On our l	ex, class and	46	24
Vaccination agencies		*****		senio Au	47	24
	****		nostalista la	sters of vita	48	25
Vaccination by departmental v	raccinato	rs looks sinem	prosqui bu	a Moltrifore A		25
Deaths from small-pox				··· miles	50	25
Special Regulations					51	25
Dispensary vaccination Percentage of successful operat			***	***	52 53	25 26
Different methods of vaccination		THANKS	ARD		54	26
Vaccination work in different		OTHER REP UNIX	STATE OF THE PARTY	dur to star	55	26
Composition and strength of the					56	26
Vaccination in compulsory area		and the same of th			57	26
Vaccine depôt					58	27
0				****	59	27
General		a awat.leabivi		from mont	60	27
CHAP	TER X	IV OTHER P	UBLIC HEAL	TH SERVICE	s.	
						97
	****	***			68	27
Mines Public Analyst (Food adultera	tion)				64	28
Port Health administration					65	29
Sanitary works (civil)					66	29
Public Health Board					.67	29 awai
82 16						co eye socili
	CHAP'	TER XVG1	ENERAL REM	farks.		
Research work				***	68	29
Leper Asylums and Colonies		PURR IV.	AHD.		69	80
Famine					.70	30 1198
Dublic Health Acts		-FAINWAND I	V MADERIA	HO	71	30
Public Health Essays	***	***			72	80
					78	N 130 aring
Office (RASHA GRIENT	on paid	UJORI) HOTTATI	LIBBAN SAN	IV HER	74 HAHO	81

ANNUAL PUBLIC HEALTH REPORT

The Province of Assam

for the year

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The Meteorologist, Calcutta, has furnished the following note on the Chief Meteorological Conditions of the Province for the year 1934 :-

The cold weather period-January and February.-Out of seven western disturbances during January only two affected weather in this Province; these were however not very active and produced rainfall only 3 per cent. in excess. In February two low pressure areas which pas ed eastwards from Sind were responsible for widespread thundershowers over Assam and produced rain 103 per cent. above normal. Widespread thundershowers with hail occurred in Assam and a hurricane is reported to have swept over many villages in the Brahmaputra Valley on the 17th of February; according to the newspaper reports considerable damage was done to property and a number of lives were also lost. During the two months, temperatures and humidity and cloud amount were generally not far from normal.

Hot weather period-March to May. - In March the activity of thunderstorms over Assam was less marked than usual and the western disturbances also did not affect weather there. These causes were responsible for a large defect of 71 per cent. in the month's rainfall over Assam. In the latter two months, however, rainfall was in slight excess, thundershowers being fairly widespread, particularly in May. Temperatures were generally in slight excess during the first two months and in slight defect in the last month. Cloud amount was in slight defect in March and in slight excess in the other two wentless. March and in slight excess in the other two months. Humidity was almost normal. A severe tornado is r ported to have affected Sylhet and its suburb on the night of 30th April and according to the newspaper reports many lives were lost and considerable damage done to property. According to the report of the Deputy Commissioner of Sylhet, the Government Steamer "Lindsay" capsized and sank on the night of the 30th. Three more severe thunderstorms are reported to have affected the Division during the month of May, one on the 7th, another on the 16th and the third on the 19th. According to reports many lives were lost and a steamer "Juno" was sunk in the Kushiara.

Monsoon period-June to Seplember .- The Bay monsoon current remained shallow during the first three weeks of June but during the last week, two depressions, one following the other, formed at the head of the Bay and gave rain 43 per cent in excess, with locally very heavy falls on and near the Khasi Hills. Some of the noteworthy heavy falls recorded were: 18", 21", 25" and 36" on 14th, 18th 19th and 20th respectively at Cherrapunjee, and 16" at Shillong and 5" at Tezpur on the 19th. This heavy rain is reported to have caused severe floods in the Brahmaputra which resulted in loss of lives and cattle and considerable damage to

property. Two depressions formed at the head of the Bay during the first half of July; the rainfall associated with the second depression was confined only to the hills and the submontane districts. After this the monsoon current temporarily weakened in Assam but it again strengthened during the last week.

During the last two months five depressions (four in August and one in the first half of September) and one storm formed in the Bay of Bengal. These however did not cause much rain in Assam and the rainfall was in slight defect in both the months.

Temperatures were normal or in slight defect in the first two months and generally in slight excess in the latter two. Humidity and cloud were generally not far from normal.

The retreating monsoon period—October to December.—A low pressure area moving westwards from China Sea across Burma intensified into a deep depression over south-east Bengal and filled up during the first week of October. It caused fairly widespread rain with locally very heavy falls in Assam; Cherrapunjee reporting 22" on the 3rd and 15" on the 4th. A Bay storm which crossed the coast near Balassore did not appreciably affect weather over this province.

Under the influence of a storm which crossed the coast near Akyab on the 7th of November, rainfall was nearly general in the beginning of 2nd week of the month; during the second fort-night scattered fails occurred occasionally in Assam. But for a few falls of rain during the second week, the month of December was almost rainless in Assam.

Rainfall was in slight excess in the first month and more or less normal in the other two months. Temperatures and humidity were not far from normal in October and December, but in November, day temperature was in slight defect and night temparature and humidity were in slight excess. Cloud amount was in slight defect in December and in the other two months it was in slight excess.

2. The staple diet of the Province is rice. The table below shows the average quantity of common rice sold per rupee in 1934 as compared with the previous five years:—

Districts.	I Ja	193	4	193	1933.		1932.		1931.		30.	1929.	
1	9.00	2	Olla	1	3	4	hore	5	15 88	6	Jase	non	don
familiandenskapit on his side so on 17 lo trolol	elly o	S.	ch.	S.	ch.	S.	ch.	8.	ch.	8.	ch.	S.	ch.
Cachar		12	0	14	11	15	4	10	15	8	7	6	9
Sylhet	1.01	11	10	13	12	10	9	9	12	7	1	6	5
Goalpara		12	5	16	1	14	12	11	2	7	6	6	11
Kamrup	77	11	4	15	7	14	4	10	4	8	9	6	0
Darrang		- 13	6	14	8	12	12	0 11	1	8	9	6	0
Nowgong	Dru.	12	10	15	7	13	12	11	9	9	3	7	4
Sibsagar	of 210	11	7	11	18	10	9	8	10	6	7	5	15
Lakhimpur		11	1	11	18	10	8	7	15	6	5	5	12

From the figures given above it will be seen that there was a tendency for the price of rice to rise in districts during the year under review.

The Provincial birth and death rates fell from 31.04 and 20.31 in 1933 to 30.62 and 19.64 respectively in 1934.

CHAPTER II-VITAL STATISTICS.

(Including Population and Emigration and Immigration.)

3. The report deals only with 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). As in previous years, the birth and death-rates have been calculated on the Census population of 1931 without taking into consideration the growth of population during the year. The table below shows the corrected population of each district under registration and indicates what the birth and death rates would have been if they were calculated on the corrected population;—

Table 'D' for the year 1934.

Districts.	Mid year population.	Number of births,	Birth-rate per mills based on the interesment population.	Bitt-rate per mills based on the present method.	Number of deaths.	Death-rate per mile based on the intercensal population.	Death-rate rev mills based on the present method.	Difference in the birth-rates (5)-(4).	Difference in the death-rates (8)-(7).
100 (40 to) no	is both	3	ai / C	85 [0	6	7	8	9,	10
Cachar	559,114	18,542	33-16	34-41	10,121	18-10	19.78	+1.25	+.98
Sylhet	2,849,666	94,737	33-26	34-79	60,171	21-11	22.09	+1.53	+.98
Goalpara	906,360	30,412	33.55	34.45	20,704	22.84	23.45	+.90	+.61
Kamrup	999,697	20,964	20:97	21.46	13,543	13.55	13.86	+.49	+.31
Darrang	590,971	19 452	32.48	33-26	19,525	20.91	21.43	+ 78	+ .21
Nowgong	575,156	10,408	18.09	18.50	6,372	11.08	11.33	+:41	+.25
Sibsagar	963,613	26,741	27-75	28 65	17,700	18 37	18.96	+.90	+.29
Lakhimpar	745,028	21,450	28:79	29 60	14,565	19.55	20 10	+.81	+.55
Total for the Province	8,197,605	242,756	29:61	30-62	155,701	18:99	19-64	+1.01	+ .65

Registration is only partially carried out in Hill Districts and its results are shown separately in paragraph (11) of this report.

The birth-rate of the province for the year under report was 30.62 against

Births and Birth-Rates.

31.04 in the preceding year. A statement showing the comparison of the birth rate of this province with that of other provinces in India is appended below:—

	411			Birth-rate.			
	Provinces.			1929-33,	1933.	1934.	
48-91	18:08 1	19:00		2	.3	4mm	
Assam	08.00	YI-SU		28.93	31.04	30.62	
Bengal	1901	50 kg		27-21	29.53	29:34	
Bihar and Orissa	10.81	01001		33.65	35 7	33.66	
Central Provinces	E388			45.08	44.25	44 80	
Madras	13 EL	1000		37:40	37.72	36.17	
Burma	0188	0.0%		27.89	29.83	30-22	
Bombay	65.13	21 112	***	36:81	36.39	85.79	
United Provinces				86.22	39-22	36.74	
Punjab				41.0	44.44	40.01	
North-West Fronti		messa m		29-22	30.05	30-83	

It will be observed that the birth-rate in Assam was higher than that of Bengal and Burma but lower than that of all the other provinces.

4. The total number of births registered during the year under review was 242,756, yielding a birth rate of 30.62 per 1,000 of population as compared with 246,118 and 31.04 respectively in the preceding year. The number of births registered in 1934 was lower than that of 1933 by 3,362. The quinquennial average was 28.93. As in the previous year, the highest birth rate (34.79) was recorded in the district of Sylhet, followed by Goalpara (34.45), Cachar (34.41), and Darrang (33.26). These four districts return a birth rate above, and the other four districts below the provincial average (30.62). The lowest birth-rate was recorded in the Nowgong district (18.50).

The highest birth-rate of 3.28 in January was followed by 3.27 in December. The lowest birth-rate (1.79) was recorded in June.

During the year under report, births exceeded deaths by 87,055 or 10.93 per mille of population. The number of males to every 100 females born was 107.

- 5. The total number of births registered in Urban Areas in the Province in 1934 was 6.259 or 32·18 per mille of population, as compared with 6,045 and 31·08 respectively in the preceding year. The highest rate (63·58) was recorded, as in the previous year, in the town of Barpeta in the Kamrup district, followed by Haflong (46·26) in Cachar, Palashbari (44·50) in Kamrup, Hailakandi (36·96) in Cachar, Karimganj (35·32) in Sylhet, Nowgong (35·24) Habiganj (34·71) in Sylhet, Dhubri (34·02) in Goalpara, Gauhati (33·90) in Kamrup, Sunamganj (32·48) in Sylhet, Tezpur (32·04) in Darrang, and Jorhat (31·68) in Sibsagar. The lowest rate (11·05) as in the previous year, was again recorded in the town of Doom-Dooma in the Lakhimpur district. The proportion of females to males residing in the town is very low. The birth-rate exceeded the death rate in all towns. The excess varied from 37·52 in Barpeta to 3·16 in Doom-Dooma.
- 6. The total number of births registered in Rural Areas in the Province in 1934 was 2,36,497 or 30.58 per mille of population, as compared with 2,40,073 or 31.03 respectively in the preceding year. The higest rate (48.77); as in the previous year, was recorded in Lakhai circle in the Sylhet district, followed by Hailakandi (43.56) in Cachar, Dhubri (42.47) in Goalpara, Kalaigaon (41.43) in Darrang, Baniachong (41.20) in Sylhet. The circles reporting low birth rates were Kaliabor (4.95) in Nowgong, Sorbhog (7.82) in Kamrup and Digboi (8.42) in Lakhimpur. These low rates are probably due to defective registration. The proportion of females to males residing in these areas is also low.

Deaths and death rates.—The death-rate of the Province for the year under report was 19.64, as compared with 20.31 in the previous year. A statement showing the comparison of the death-rate of this Province with that of other Provinces in India is appended below:—

1	Provinces.			ed hobinenga (Death-rate.	countroid and a		
el en al			+	1929-33,	1933.	1934.		
Acct	1 1	28-0202		2	3	4		
A seam		8 14		18-90	20.31	19:64		
Bengal		***		21.93	24.00	23.58		
Bihar and Orissa		***	1000	24 08	22-1	26.05		
Central Provinces	1.0	80.82		32.17	26-55	37.22		
Madras		144		24.03	23-66	24.95		
Burma				19.15	18.71	20 62		
Bombay	4.0			26.34	24.79	25.42		
Jnited Provinces		SA. TO		23.87	18-69	26.75		
unjab		04.10		26.0	28.16	27.70		
North West Frontie	r Province			21.42	21.28	21.06		

It will be observed that the death-rate in Assam was lower than that of any other Province in India.

7. The total number of deaths registered during the year under report was 1,55,701, yielding a death rate of 19.64 per mille of population, as compared with 1,61,054 and 20.31 respectively in the preceding year. The quinquennial average was 18.90. Four districts viz., Sylhet, Goalpara, Darrang and Lakhimpur returned death-rates above, and the other four below the quinquennial average.

The highest death-rate was recorded in the district of Goalpara (23.45) followed by Sylhet (22.09), Darrang (21.42) and Lakhimpur (20.10) during the year under review. The death-rate in the Nowgong district was the lowest in the Province. The total mortality in 1934 was lower by 5,353 than in the previous year. The number of deaths reported from each district in 1934 is compared below with that of 1933:—

171,8— 1,038 104-18	8,080 5,038	100,738 7,882 5,950	1934.	1933,	Increase or decrease.
1814	1,088	2,179	2	3	esemo dello II
0014-	157,780	162,246		Totaler	
achar			10,121	12,188	-2,067
ylhet	_1***/ FD.01		60,171	64,799	-4,628
oalpara	LITE CT P. CO		20,704	20,857	-153
Camrup	(00:00) 10	Office Copy	13,543	13,635	-92
Darrang	in Decrency	(80.24)	12,525	11,611	+914
	(20-1 3000		6,372	6,799	-427
Nowgong	A STATE OF THE PARTY OF THE PAR		17,700	16,704	+996
lowgong		1	11,100		

The number of male deaths to every 100 female deaths was 111.

8. The total number of deaths recorded during the year in Urban Areas, in Which registration is compulsory, was 3,455. This is 137 in excess of the figure for the previous year. The death-rate in 1934 was 17.77 per mille, as compared with 17.06 in the previous year. The quinquennial average was 16.64. The highest death-rate (26.06) was reported from Barpeta town. The increase was due to a large number of deaths recorded under "Fever" and "Other Causes". Other towns reporting high rates of mortality were Golaghat (25.59), Haflong (24.90), North Lakhimpur (22.64) and Tezpur (21.33). Low rates were recorded in Doom Dooma (7.89), Tinsukia (9.50) and Silchar (11.63). These low rates were due either to better health conditions prevailing during the year or to defective registration. In the undermentioned table is given the number of deaths recorded under each of the main heads of mortality for the years 1933 and 1934:—

Head	of mortality.	les les	18.55	1934	1933.	Increase or decrease in 1934.
8028 802	1		08:10	2	3	4
Cholera	the Ha		in Delice	20	31	na of the
Small-pox		***		6	13	-1 +6
Fevers Dysentery and Diar	rhoea			1,043	980 337	+ 6 -3
Respiratory diseases				490	412	+7
njuries				138	120	+1
All other causes	"La sell		one min	1,455	1,425	+ 3
	Total		Snob S. 4	8,455	3,318	+13

9. The total number of deaths registered in rural areas in the province during the year under report was 152,246 or 19.69 per mille of population in rural areas. The quinquennial average was 18.96. The number of deaths in rural circles under each of the main heads of mortality for the years 1933 and 1934 is contrasted in the subjoined table:—

H. year under	ead of mortality	(20-10	n the distr of hidepoc district w	1934.	1933.	Increase or decrease in 1934.
low with that	ompared belong	o ai 18	181 al 361	ve tawn saw	3	1033 ;—
Cholera				1,884	5,477	-3,593
Small-pox				100,736	102,910	-34 -2,174
Fevers Dysentery and Di Respiratory disease	arrhœa		4000	7,892 5,950	8,930 5,032	-1,038 +918
Injuries All other causes	8		e :	2,179 33,405	1,982 33,171	+197 +234
	Total			152,246	157,786	-5,490

The highest rate was recorded in the Golokganj circle (36.21) in the Goalpara district. Other circles reporting high rates were Paneri (35.34) in Darrang, Mankachar (32.31) in Goalpara and Kalaigaon (30.77) in Darrang. The lowest rates were recorded in Kaliabor (4.64) in Nowgong, Sorbhog (5.08) in Kamrup, Loharighat (6.81) in Nowgong. These low rates can only be attributable to defective registration.

"Fever" was mainly responsible for the high rates in each of the above noted areas, other contributory causes being "all other causes" in case of Mankachar and Kalaigaon, Dysentery and Diarrhoea and "all other causes" in case of Paneri and "injuries" in case of Golokganj.

10. Mortality was highest (1.80) in the month of December and lowest (1.38) in March. "Fever" was mainly responsible for the highest death-rate in December.

11. Births and Deaths are registered in certain areas only in the hill districts.

Registration in hill districts.

The birth and death-rates in these areas in 1934 are compared in the subjoined table with those of the preceding year:—

m Dooma (7-89), Thankin	T	Population	193	34.	1933.		
honoidean Districts. al , noi	re	under gistration.	Birth-rate.	Death-rate.	Birth-rate.	Death-rate.	
1		2	3	4	5	6	
Naga Hills		64,128 3,974 124,404	25·79 44·51 41·89	15-48 39-19 22-87	22.84 41.19 42.16	14·22 45·17 27·94	
Gara Hills		190,911	81.20	21.79	29.88	20.15	

It will be seen from the above table that the birth-rate in all hill districts, except Lushai Hills, was higher and the death-rate, except in Khasi and Jaintia Hills and Garo Hills districts, lower than that of the preceding year.

Khasi and Jaintia Hills.—The total number of births and deaths in the Khasi and Jaintia Hills was 1,654 and 993 respectively. A few cases of Cholera were reported from Mawson and Nonglait villages and these were attended to by the nearest dispensaries. There were no deaths from cholera. There were 14 cases of small-pox in the Shillong Municipality with 2 deaths. Over 12,660 vaccinations were performed within a few days and the disease was rapidly brought under

control. "Fever" was responsible for 514 deaths, "Dysentery and diarrhoea" for 48, "Respiratory diseases" for 154, "Injuries" for 8 and "All Other Causes" for 267. The total number of births and deaths recorded in Shillong in 1934 was 692 and 270 respectively as compared with 532 and 252 respectively in the preceding year. The birth and death rates per 1000 of population were 32:49 and 12:68 as compared with 24:97 and 11:83 respectively in 1933. Five hundred and forty-three boxes of Quinine Treatments were sold during 1934 as compared with 640 in 1933. There was a considerable fall in the incidence of malaria throughout the whole district. The following number of cases and deaths from Infectious Diseases were recorded by the Shillong Municipality in 1934.

00001	18-33	Slebs:	10.02				sarian'
	Disease.		83-93	Cases-	Deaths.	Cured.	Otherwise.
14:28	1 10.88	20-58 -82-44 -45-77	25-d2 88-d2 0m0	2	3	4	
Tuberculosis Enteric Small-pox	88-88	14-22	15:46	24 23 14	21 3 2	20 12	roquida 3
Diphtheria Leprosy Cholera Kala-azar Blackwater fev	Birds and d	vere New York on the control of the		11 7 8 5 1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	ed I

Out of the 24 cases of Tuberculosis, 15 cases were among the indigenous population and the other cases came from outside. The sources of infection in regard to Enteric, Small-pox, Cholera, Leprosy, Kala azar and Blackwater fever were from outside. In August and September, Influenza prevailed in mild epidemic form in Shillong. The water-supply and conservancy of the station requires much improvement.

Naga Hills.—In the Naga Hills district, vital statistical occurrences are registered only in Kohima town and Dimapur rural circle, the combined population of which is 3,974. The birth and death rates, as given against this district, do not therefore accurately indicate the health of the whole district. The whole district was free from cholera and small-pox. The total number of deaths were 177 of which "Fever" was responsible for 117 deaths. Anti-malarial measures in Kohima and Dimapur are in progress. A total of 80 packets and 6 tubes of Quinine were sold in this district during the year.

Lushai Hills.—The total number of births and deaths was 5,211 and 2,783 respectively. The higher birth-rate and the lower death-rate indicate an improvement in the general health of the district during the year under review. There were 17 cases of cholera in Lungleh Subdivision with 8 deaths. The total number of persons inoculated against cholera was 3,149. The campaign against syphilis was as usual, carried out during the year under report with satisfactory results. Twenty-eight cases of Yaws were treated during 1934 against 5 in 1933.

Garo Hills. The birth-rate was higher and the death-rate lower than during the preceding year. The birth-rate (31:50) was the highest ever recorded in this district. The total number of deaths was 2,783 against 3,847 in 1933. "Fever" was responsible for 1,074 deaths. There were 13 cases of cholera with 11 deaths. Infection was introduced from the Goalpara district. There were 7 deaths from small-pox. A total of 174 lepers were treated in the Tura leper colony.

Sadiya Frontier Tract. The total number of births and deaths recorded during the year under review was 609 and 419 against 603 and 471 respectively in the preceding year. The largest number of deaths (351) was recorded under "Fever." There was an outbreak of Influenza in the Pasighat Subdivision with 46 cases and 2 deaths. There was one case each of Small-pox and Enteric fever in the Sadiya town. Fifty packets of Quinine treatments were sold during the year.

Manipur State.—Births and deaths are not recorded in this State. There were 3 cases of small-pox with no deaths during the year. There was no case of cholera. A total of 190 lepers were treated during the year. Forty parcels of Quinine treatments were sold during the year under report.

12. The subjoined table shows the birth and death rates reported from Tea Estates during the year 1934 as compared with those for 1933.

	bes 0	speciavoly	itala	Birth-r	ate.	Death	-rate.
	Distr	iets. mi svil	83. 84 as	1934-	1933.	1934.	1933.
Mata sens	Is Dis	om Infectio	na fe	2 1 1 2	lo radmun	e fellawing	5
Cachar			[39 01	36.46	24.31	23.38
Sylhet			***	84 32	31.54	19.45	16.93
Goalpara	Carrett	Doubles		32.43	35.96	19:31	20.94
Kamrup				23.18	23.31	20.93	13.62
Darrang				25.72	26.53	41.15	14.23
Nowgong				35.36	32-44	19.83	17:49
Sibsagar				41.00	43.77	26.60	23.36
akhimpur		***		38-40	82-24	25.97	22-82
		Total		38.67	34.47	24.46	20.75

The birth and death rates on Tea Estates were 38.67 and 24.46 as compared with 34.47 and 20.75 respectively in the previous year. Births and deaths on Tea Estates are in excess of the Provincial rates, which are 30.62 and 19.64 respectively. The total number of births on Tea Estates in 1934 was 37,176 and the total number of deaths 23,517, as compared with 33,620 and 20,244 respectively in the previous year. The largest number of deaths (10,263) under "Other Causes" was followed by 4,625 under "Fevers," 4,456 under "Respiratory Diseases," and 3,758 under "Dysentery and Diarrhoea."

A total of 86 deaths from kala azar was returned from Tea Estates in 1934 against 60 in 1933. As usual, Tea Estates obtained their supplies of Urea-stibamine at concession rates. A total of 104 deaths from cholera and 34 deaths from small-pox were reported from Tea Estates during the year under report.

13. The total number of births and deaths registered within railway limits during the year 1934 was 84 and 134 as compared with 115 and 143 respectively in the preceding year. As in the previous year, the largest number of births and deaths was returned from Lakhimpur.

Mortality according to Sex. A total of 81,947 males and 73,754 females died in 1934 against 84,464 males and 76,590 females in the preceding year. The death-rates 19.57 for males and 19.71 for females were less by .60 for males and by .76 for females than in the previous year, but were in excess by .80 for males and by .66 for females for the previous quinquennium. The female death-rate exceeded the male death-rate in 5 districts. The highest death-rate for males (24.31) was again returned from the Goalpara district, followed by Darrang (23.31) in regard to females. The lowest death-rates for both sexes viz., 11.10 for males and 11.33 for females, were returned from the Nowgong district as in the previous year.

Mortality according to Class.—Classified according to classes, 1,4:3 Christians, 87,823 Hindus, 54,082 Muhammadans, 184 Budhists and 11,445 other classes died during the year 1934. The death-rates per mille are shown by classes in the subjoined table.—

deaths from	7 17	Classes.	district. Toda nie	pregled betario	Ratio of deaths per- mille, 1933.	Ratio of deaths per mille, 1:34.	Difference.
		170 h1 800		Re baa 0	2 2	3	Sadiya
Christians		Z Inde 1	1.000	1	16.02	18-47	+ 2.45
Hindus		bon was I am			18.18	18.19	+ .1
Muhammadans		,			21.40	19.71	- 1.69
Budhists					18.00	16.80	- 1.20
Other classes					49.20	45 47	- 3.73

The highest death-rate among Hindus (21.38) was registered in Sylhet and that for Muhammadans (22.98) in the Goalpara district. The lowest rates, 12.04, and 7.72 respectively, for these two principal communities were returned from Nowgong.

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

Age perio	ds.	W VOI	19	934.	affection of	Excess or defect of		
eview was 5,082 as			da pui	Male-	Fe	male.	female de	eath-rate.
u 1912 to 1984 fs	nam fro	in As	ohn	(12 hold	Infant	all gain	ode June	4 /
Under one year	ow sho	nortie	abems	174.11	Leimor	155-96	in Compa	-18:18
5-10	Dotten	Vacel	by the	55·13 14·02	n en eno	71.92	Lysosin.	+16.79 +3.52
0-15 5-20				4.62		5.17		+ .55
0-80		nno Jetir	ball-mark	3·74 17·46	Institution	6.06 25.57		+ 2.32
0-40				15.72	pant same	15.32		+ .40
0-50			-6.	12.44	1	9.23	(contribution)	- 3.21
0—60 0 years and upwards			00.611	12.86	Strate.	8.19		- 4.17
	***	***	-	72.40	de la constitución de la constit	52.08	terrane de	-20.32
Joans and aphands								

The rate of mortality among infants for the year 1934 was higher than that for 1933 by '7. It will appear that the highest mortality was recorded amongst infants under one year and the lowest amongst males between 15-20 years of age and amongst females between 10 to 15 years.

The following table shows the deaths and death-rates amongst infants calculated on the births for the last ten years:—

Year.		***	Births,	188	De	eath of infants		Death-rate of infants,			
	79	Male,	Pemale.	Total,	Male.	Female.	Total.	Male,	Female.	Total.	
1	10	2	2 3	710	5	6 8	7	8	9	10	
1924 1925 1926 1927 1928 1929 1930 1931 1931 1932 1933		110,107 103,009 168,967 107,461 110,774 116,177 110,400 115,139 122,845 126,882	102,648 96,252 102,266 99,828 103,283 108,417 104,345 107,867 115,474 119,236	212,755 199,261 211,233 207,289 214,057 224,594 214,835 223,006 233,319 246,118	21,636 19,009 21,029 19,253 20,233 19,374 20,166 18,465 20,398 21,903 21,893	17,671 15,733 17,403 16,266 16,587 15,987 17,310 15,624 16,918 18,328	39,307 34,742 38,432 35,509 36,820 35,361 37,476 34,089 37,316 40,231	196-49 184-53 192-98 179-16 182-65 166-76 182-66 160-37 166-05 172-62	172:15 163:45 170:17 162:94 160:59 147:46 165:76 144:84 146:51 153:71	184-76 174-3 181-9- 171-3 172-0 157-4 174-4 152-8 156-5 163-4	

The infant mortality rate of the Province in 1934 was higher than that of the years 1929, 1931, 1932 and 1933, but was lower than that of any of the previous years. Of the 242,756 infants born during the year 40,143 died. The largest number (20,632) died within one month of birth. A total of 13,131 died in the age period over one month but not exceeding 6 months and 6,380 died in the period over six months but not exceeding 1 year. In the following table the infant mortality rate for Assam is compared with that of other Provinces in India.

Provinces.					Rates,
Assam	S how the	d dilly le	as compa	Billianh h	165.36
Bengal	C	o out of	Splinet as	In initial	189- 2
Bihar and Orissa	50 v	iw	dalani. vd		140.95
Central Provinces	1	i bone i se		S. diline to	253-47
Madras				***	192.68
Burma	ro verides	destine we	101,18 hu	n estrict o	219.89
Bombay	le modder	I doublesy	BY. 68. I. Br	in colorid.	167:37
United Provinces	Bell worth	here serious	More. ext.	New York	184-64
Ponish		and the Thirty	an in comme	Their	187.40
North West Frontier Pr		OUT SA-TIME	Sameda		134-29

The Infant Mortality rate in Assam for 1934 compares favourably with that of other Provinces. The heavy mortality amongst infants is due in very large measures to immaturity and ignorance of the mother, to improper feeding, and to exposure of infants to insanitary surroundings. The high infant mortality rate indicates that, to save the child population, vigorous educational measures are necessary in regard to the care of infants.

The number of still births recorded during the year under review was 8,682 as compared with 9,395 in the previous year. The percentage of still births to live births was 3.57 in 1934 against 3.81 in 1933.

A chart showing the Infant Mortality rate in Assam from 1912 to 1934 is attached.

Registration in Compulsory Areas.

14. The statement below shows the defects in registration of vital occurrences during the year 1934 in Compulsory Urban Areas as ascertained by the Vaccination Inspecting staff.

		Unregistered rences dur	d vital occur- ing 1934	Recorded vital	occurrences.	Percentage	of omissions,
Municipalities.		Births.	Deaths.	irths.	Deaths,	Births.	Deaths.
br 4 1	Içe	2	3	4	5	6	7
Silehar		7	nov mili no	250	153	2.80	Y north
Hailakandi		1		74	35	1:35	r
Hafforg		14		52	98	26.92	3.57
Sylhet	90.0	15	1 5	594	318	2.53	1.5
Karimganj		14	4	201	73	6.96	5-48
Maulvi Bazır	12.0	19	Unnia. Box	130	64	14.61	to all
Habiganj		17	3	263	172	6:46	1.7
Sunamganj		4	1	173	87	2.31	1.1
Dhubri		7	2	321	237	2.18	-8
Goalpara			(1) ()	188	83		
Jauripur				160	84		4
Bauhati		39	8	739	899	5.27	2.0
Barpeta		27	3	630	47	4.28	6.3
Polashbari		10	8	156	76	6.41	10.5
Cezi-ur		8	8	317	200	2.52	4:0
Mangaldai		6	4	47	28	12.77	14 2
Nowgong	***	12	9	385	213	3.12	4-2
orhat		13	2	73	47	17 81	4.2
Sibsagar	10000	11	5	254	53	4:33	9-1
Golaghat		17	5	182	119	9:34	4.2
Vazira		4	1	128	35	3-12	
Dibrugarh	•••	11	3	233	86	4.72	2.8
North Lakhimpur		3	2	56	46		3 4
Doom Dooma	100	5	7	14	13	3 49	4.3
insukia	10.44	10	3	77		35:71	53.8
	11000		3		33	12.98	9:0
Shillong	***	2	2	690	268	-29	.7

In the 23 Municipal Towns where registration is compulsory, a total of 396 persons were prosecuted for failing to report Vital Occurences during the year. Of this number 291 persons were convicted with fines which amounted to Rs. 257-4-0.

15. The Vaccination Inspecting Staff verified the records of 52,786 births and Inspection of village registers of vital statistics.

31,106 deaths in rural areas in 1934, as compared with 51,658 and 30,427 respectively in 1933. The percentage of omissions detected was 4.94 in respect of births and 3.03 in respect of deaths as compared with 5.12 and 2.97 respectively in the preceding year. The district of Sylhet as in the previous year, stood first with 36,449 entries tested, followed by Lakhimpur with 8,705 and Nowgong with 7,903, Darrang stood last with 3,257 entries tested in 1934.

Only 52,786 births and 31,106 deaths were verified during the year out of a total of 2,42,756 births and 1,55,701 deaths yielding the poor percentages of 21.74 and 19 91 respectively. More extensive and detailed verification is not possible unless the Vaccination Inspecting Staff is increased.

1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 165.36 156.58 152.86 157.44 171.35 184.75 from 1912 to 1934 187.23 187.57 \$235.78 216.95 139.28 1917 202.00 1916 201.89 1914 1915 201.21 1913 1912 196,68 50 25 150 100 75 225 200 175 125 300 250

Infantile Mortality (per 1,000 of Births) in the Province of Assam

CHART NO I

1934	_	-	7	-		-		1, 1	4	1	1	7	7
										19-19			
1009													
								10					
								The same					
						12	30						
					18 3	106	1	1					
					100	* 4	IBBO						

General accuracy of Vital Statistics and improvements affected during the year.

General accuracy of Vital Statistics either in urban or rural areas. As usual, Weekly Epidemic Reports and Monthly Vital Statistical Returns were published regularly in the Provincial Gazette and in certain local papers for the information of the general public.

17. The statement below shows the number of coolies that left for Assam by different routes month by month in 1934:—

Month.			LesignoE		100	a Santahar.	and Chandpur
						ningaon Rangiya.	and Chandput
January			HI SH	OHAPPE		7,871	
February			***		***	14,679	
March	ST. GOTT	D			H Stan	11,908	
April		***	***	***	***	7,371	
May melt land	odesthe	Hier sdgs	THE PERSON NAMED IN	oniborren or	th ni-bal	4,261	
une off print	the conty	the organ	er	none	H 1000	2,842	
uly	***	* ***	Andrew	***		1,116	
logast	***		***	***	***	414	
eptember		and ack	003.	sa Artemator	· ·	281	
Detaller			PROOF ARE	aking the h	D 73	369	
November	5.701 ee	id & lo v	diference	Introde A.	bridge bur	442	
December	*** 022	100. 200	Theres a	of faces on		909	
		Total				52,963	

A total of 347 emigrants were taken ill en route, of whom 24 died.

The statement below shows the number of sick coolies treated month by month in the Emigration Hospitals at Gauhati and Tezpur during the year 1934:—

	1984.						E-) E9								Ī
Cembined.	Disease.	.medsT	January.	February.	March.	April.	May.	June.	July.	Angust.	September.	October.	November.	December.	Total.
	1	0	2	3	4	5	6	7	8	9	10	11	12	13	14
80° m	pur hospital.	50.		11.1		81	The second		P					1010	odo
162	pur nospitat.			***		037					***		9	94-4	PHILO:
Conjunctivi	tis 0 til	08:30	2	10:8	-	81	21.	100	1	0.00	200	The same	13500	200	2
Influenza		20 TO 10 TO	200	2	5	2	1	2	8-9			***	***	10,000	11
Dysentery	42	80.0			1	ĩ			1				700.7	desi	2
Malaria	89."	14	:::	80	i		1		1		***				3
	meertain orig	in		000	î	.00			0.0					1	1
Mumps	meer water or . E				î										î
Chickenpox	60-61	TTOTAL		00.0			1.0		1				n both		î
Carentenpos					_		-								_
	Total	***	2	2	9	3	1	2	2						21
			1	777	100	Terre	100	E VIII	W 700		1117	-	1975 6	-	-
NW TOOK OF	li .surleuls.	Witness .	100	a la			1000	JE 6		San .			21171	ne-	
Gin	hati hospital.	47 50	1	145	1	With the last	Part I	300	p 20	THE PERSON NAMED IN	A	ant c	HA.	See a	
d 11 03		01 110	100	State .	1	Jane	000	200	-		1000	at do	2		7
Small-pox	and the line of			2	6	2	1								11
Measles	eni in m	CDB	12	4	9	7	18	24				****		(220	74
Conjunctivi		•••	8	7	20	16	9	3				***	1	***	64
Malaria Influenza	Dantle tola per	•••	2	12	48	7			***			••••			69
Intestinal co	lia			1		i						***	****		2
Broncho Pne				2	1	î	**								4
Dysentery				2											2
Puerperal fe	ver MA		****	ĩ			***						(***)		
Foreign bod					1										1
Augina Pec					1							***	44.8		î
Preumonia								1				93771	10.00		î
Ankylestom													***	1	1
Diarrheea	28		2	5	3	2							***		12
60-	118						-		-	-	_	2000		_	_
	Total		24	36	90	36	28	28					1	1	24
	44.4												100		

18. No new railway construction was undertaken in Assam during the year either by the Eastern Bengal or Assam-Bengal Railways. There were four coolie camps, viz. Dittockcherra Ballast and Boulder siding, Maibong Ballast and Boulder siding camp in Cachar district, Jagiroad Ballast quarry in Nowgong, and Bahubor quarry in Sibsagar district, in connection with old lines. The population of these camps ranged from 329 to 771. Kutcha hats were provided and their surroundings were kept clean. Sweepers were employed for conservancy. There was no epidemic of cholera or small-pox in any of the camps but malaria was prevalent in the Dittockcherra Ballast and Boulder siding camp. One Hospital Assistant and one Compounder were kept for treatment of diseases.

CHAPTER III.

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

The State of Public Health in the Province during the year under review was satisfactory. Deaths under all heads of mortality, with the exception of "Injuries" and "Other Causes" were smaller during the year 1934.

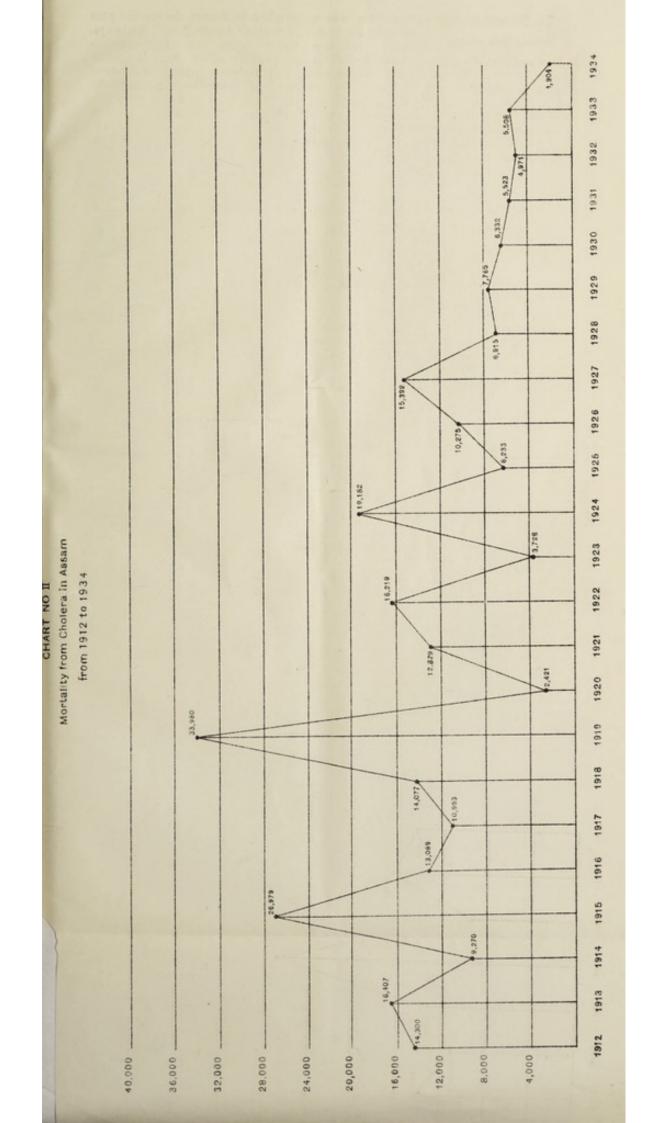
Chief Causes of mortality.—A total mortality of 1,55,701 occurred during the year, viz.—1,904 for Cholera, 206 for Small-pox, 101,779 for Fever, 8,195 for Dysentery and Diarrhœa, 6,440 for Respiratory Diseases, 2,317 for Injuries and 34,860 for "All Other Causes." The sub-joined table shows the death-rates per mille from the chief causes of mortality during 1,34, as compared with the decennium ending 1933.

Diseases:		1924-33.		1934.				
december	Urban.	Rural.	Combined.	Urban.	Rural.	Combined.		
\$1 81 21 11 01	2	3	4	5	6	7		
Cholera Small-pox	·58 ·14	1·12 ·85	1.11	·10 ·03	·24 ·03	·24 ·03		
Plague Pever Dysentery and Diarrhea	5·15 2·37	12·18 1·17	12.01	5·36 1·56	13.03	12.84		
Respiratory diseases	2·17 ·50 6·46	·69 ·24 4·00	·72 ·25 4·06	2·52 ·71 7·48	·77 ·28 4·32	*81 *29 4 40		
Total	17:38	19.75	19:69	17:77	19.69	19:64		

The death rate for the year 1934 was less than the average rate by 5.

20. The total number of deaths from cholera reported during the year was 1,904 as compared with 5,508 in 1933. The death-rate per 1,000 of population was '24 against '69 in the preceding year. The decennial average was 1.11 as shown in the sub-joined table.—

****							Death-rate	per mille.
Districts.						7 77	1924-33.	1934.
Cachar Sylhet Goalpara Kamrup Darrang Nowgong		11:11:11					1·18 1·46 1·17 1·83 •78	·03 ·44 ·48 ·09 ·05 ·04
Sibsagar Lakhimpe				Tota	1	42	·37 ·18	·09 ·05



The largest number of deaths (596) occurred in December and the lowest (33) in October. The highest death-rate ('48) was reported from the Goalpara district followed by Sylhet ('44). The disease was prevalent in the Sylhet district more or less throughout the year. The district of Goalpara was practically free from cholera until September. In October, however, cholera was first reported from a village in the Bijni thana circle. Infection was brought to this district by a Nepali herdsman and spread by contamination of water supplies and by human agency to both banks of the Brahmaputra. Besides the Epidemic Unit staff of the district, consisting of 3 Sub-Assistant Surgeons and 6 Disinfectant Carriers, the Epidemic Unit staff of the Kamrup district and all available Medical men of both the Public Health and Medical Departments were concentrated in the affected areas. They were employed on mass inoculation of the people in the infected and neighbouring villages, and the disinfection of water supplies. Both the Assistant Directors of Public Health visited the infected areas and supervised preventive measures. A total of 44,539 person were inoculated. A serious flood occurred in the Nowgong district in June and all preventive measures against the outbreak of any epidemic disease were taken. Bacteriophage was distributed freely, water supplies were disinfected and inoculation with cholera vaccine was given to those who asked for it. Floods also occurred during the same month in the Sylhet district and the Assistant Director of Public Health, Surma Valley and Hill Division was detailed to the affected areas.

Deaths from cholera were reported from 84 out of 147 registration circles and from 725 villages out of 28,333 in the Province.

The amount of cholera vaccine issued in the Province since 1925 is shown below:—

	1925	****	***	The stee	"Mayot 52 to	103,930	c. cs.
	1926	desented b	ma.(18.)	v Gonlawn	Internal	154,760	,,
	1927	nal ni (L	P) bradder	dest Rob	Jenny rural.	419,880	33
	1928	in Siban	dehat (28	natell vd be	wollol	237,773	19
ioli	1929	Herry losn	d troubant	ra-noitelosi	eell tol mass	858,047	,,
	1930	nero such	fw. Alediqu	oll scamail	o Intestious, I	220,532	"
	1931					170,820	1)
	1932	est of SalatR	Language of the			169,317	22
	1933	en Jointiment	nercosec na	THE THE PO.		451,884	33
	1934	more of or traces	on . Contribute	Total Selection		171,117	12

A total of 871,316 doses of Bacteriophage was issued during the year under report of which 60,231 was issued to Tea Gardens. Bacteriophage is being experimented with in the Nowgong district and in the Habiganj subdivision of the Sylhet district. In these two areas no cholera vaccine whatsoever is administered. As in past years, five mobile Epidemic Units, each consisting of three Sub-Assistant Surgeons and 6 Disinfectant Carriers, were employed, two in the Sylhet district and one in each of the districts of Goalpara, Kamrup and Nowgong. Their services are utilised throughout the Province whenever and wherever required. They deal with outbreaks of all diseases but more especially with outbreaks of cholera, small-pox and malaria. The units in Nowgong and Habiganj are fully employed in the Bacteriophage experiment and consequently their services are not available for other Public Health duties. The establishment of Epidemic Units has been more than fully justified and the provision of more such units is very real and much overdue.

Chart No. II showing the Provincial mortality from Cholera from 1912-1934 is enclosed.

21. A total of 104 deaths from cholera were reported from Tea Estates during

1934 as compared with 277 in the preceding year, the
corresponding ratios per mille being '11 and '28 respectively.

22. The total number of deaths from Small-pox during the year under review was 206 as compared with 247 in 1933, showing a decrease of 41 deaths. The gradual fall in the mortality from this disease is due to the prompt preventive measures taken to deal with

isolated small outbreaks and to the thoroughness of vaccination. The death-rate was '03 per mille as in the previous year and '34 the mean of the previous ten years as shown in the table below:—

	District	Mary Many			Death-rate	per mille.
	District	s. all sand			1924-33-	1934
Cachar	· doing	alb.witt a	1 11	Lamenoit	-22	nontie-
Sylhet	***			and baseman	.34	.02
Goalpara	90.	alless bear			•48	.01
Kamrup		***			'41	.08
Darrang	***	THE STATE OF THE S			.17	-07
Nowgong	Q. Goan		oromittan :	THE DRIE NO.	.03	.01
Sibsagar	0	B1 47. 110	AU	030 %. 1100	•66	01
Lakhimpur	8-4101001	1111 4461 11	pldeed of	in to out	•16	
	Total	one manual	one suppor	annutra lo	•34	.03

A total of 87 villages out of 28,333 villages were affected with small-pox in 1934. Mortality from small-pox was reported from 49 out of a total of 147 rural circles. The highest number of deaths (30) occured in each of the months of April and December and the lowest (4) in October. Two districts yielded death-rates from small-pox above the Provincial average (°C3) per mille. Kamrup with its death-rate of °O8 per mille heads the list, followed by Darrang with °O7. Only 6 deaths were reported from towns and 200 from rural circles. Fifteen children below 1 year of age, and 14 between one and 10 years of age died in 1934 from small-pox against 24 and 31 respectively in 1933. The remaining deaths (177) occurred amongst adults.

Chart No. III showing the Provincial mortality from small-pox from 1912 to 1934 is attached.

23. In a total of 25 towns, only two returned a mortality from small-pox namely Goalpara (·31) and Barpeta (·29). Amongst small-pox in individual town and rural areas.

This rates of mortality from small-pox namely Goalpara (·31) and Barpeta (·29). Amongst rural circles, Polashbari (·41) in Kamrup heads the list followed by Bokakhat (·23) in Sibsagar, Boko (20) in

Kamrup and Kulaura (18) in Sylhet. There is no special hospital in Assam for the isolation and treatment of small-pox. Particulars of cases treated in the Infectious Diseases Hospitals, where such exist, are given in the appended table.—

Municipal Town.	Number of small- pox patients treated.	Vaccinated as evidenced by presence of one or more vaccina- tion cicatrices.	Stated to have been success- fully vaccinated but no vaccina- tion cicatrices present.	Stated to be unvaccinated (or vaccinated un- successfully) and no cioatrices present.	Previously un- vaccinated but vaccinated during the incubation of small-pox.	Stated to have been successful- ly vaccinated,
hage is being experi-	2	3	Cholled be	201 20 3 182	00 406 4 10	7
Dhubri Shillong Gauhati Tezpur	" 11 2	2	in I am notice	the mode in	post mus. I	

Plague. 24. No case of Plague was reported from any district in 1934.

25. During the year 1934 fevers were responsible for 1,01,779 deaths as compared with 1,03,890 in 1933. This shows a decrease of 2,111. The death-rate per mille was 12.84 as compared with 13.10 in the preceding year and 12.01 during the last decennium as shown in the table below:—

IQE, mont an	olodo mo				Death-rate per mille.		
Districts.			or contada		1924-33. 10:59	1934.	
Sylhet Goalpara	2007 H.L.	112	partitions in	1621	12.19	12 93 21 95	
Kamrup Darrang	Silled of	red libid to	in in the co	in line	10:32 12:69	11·38 13·87	
Nowgong Sibsagar	ndagathe	h may-like	the from Sur	493-10	10.48	9.01	
Lakhimpur	Louisson s	dP adi	moonin 50:	wills 2	8 71	10.16	
			Total	to the	12.01	12.84	

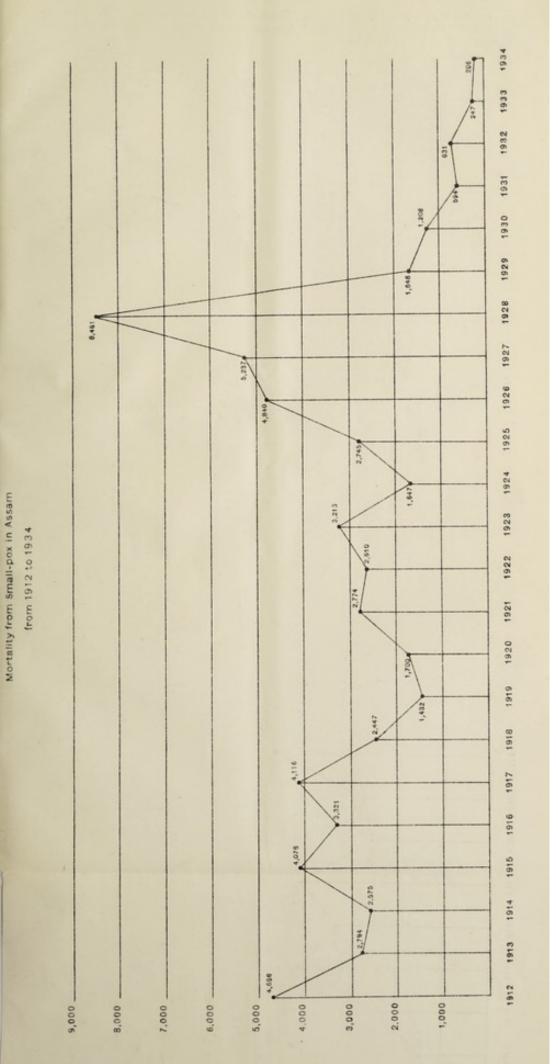
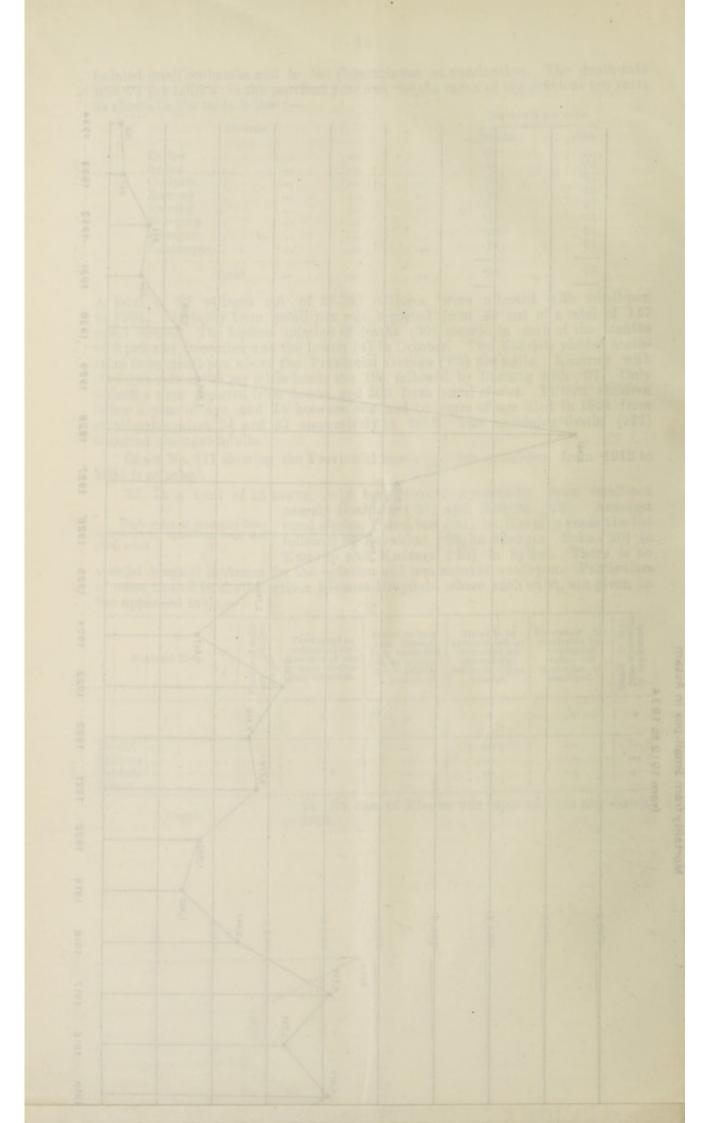
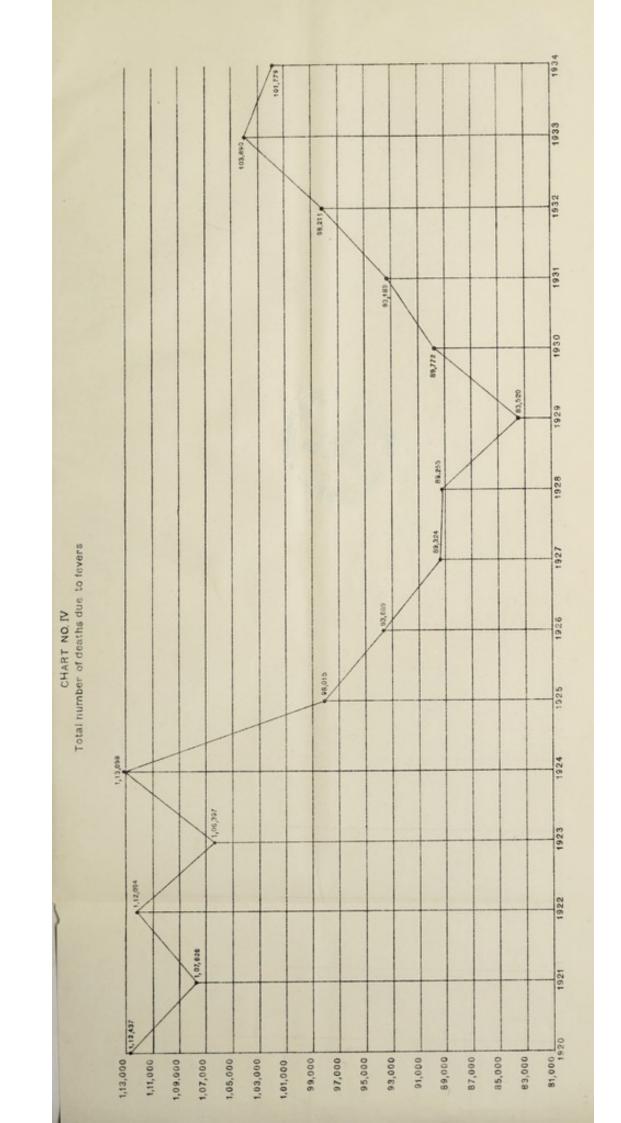
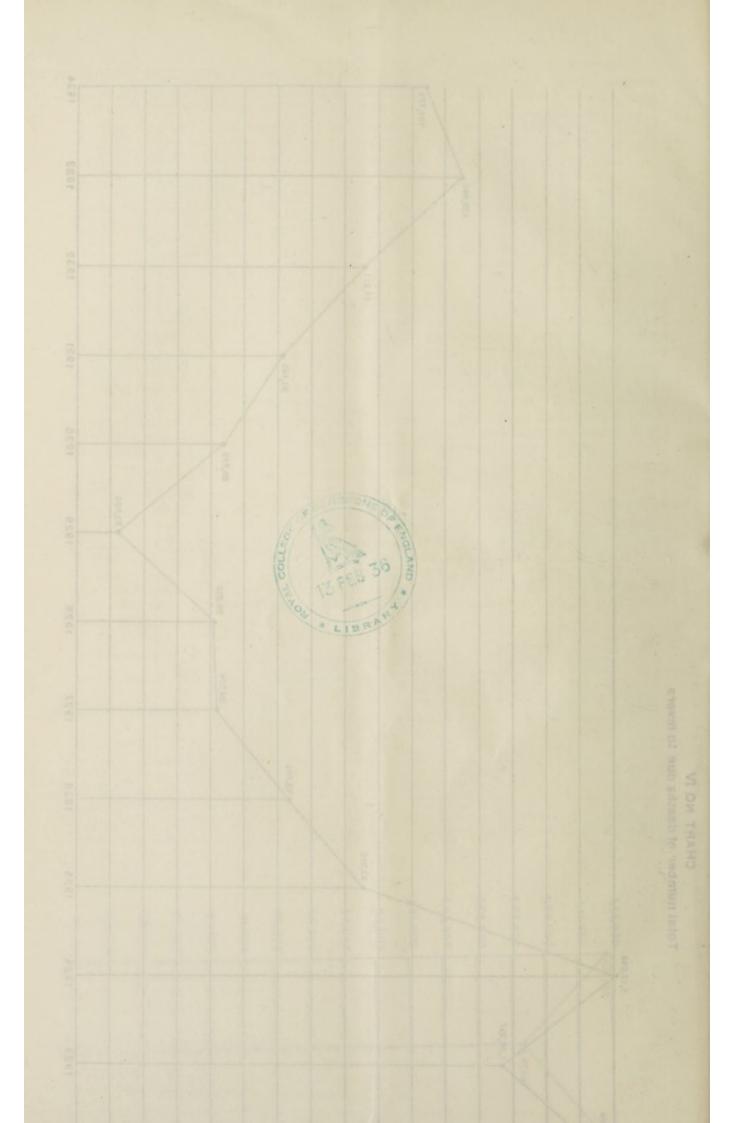


CHART NO III







"Fevers" accounted for 65.37 per cent. of the total provincial mortality as compared with 64.51 per cent. in the previous year. These figures include deaths from Malaria and Kala Azar and also from various diseases, which have fever as their predominent symptom. The largest number of deaths (10,127) was recorded in June and the smallest (6,956) in March. As in the previous year the highest mortality rate from "Fever" was recorded in the district of Goalpara (21.95) and the lowest in Nowgong (901). As in the previous year, Quinine and Cinchona valued at Rs. 5,000 were distributed free to indigent malaria patients throughout the Province.

Chart No. IV showing the Provincial mortality from "Fevers" for a series of years is attached.

26.-DYSENTERY AND DIARRHŒA.

Aller Donald					Death-rate per mille.		
Districts.					1924-33.	1934	
Cachar			o verial		2.14	1.09	
Sylhet					1.20	.93	
Goalpara				***	-27	.17	
Kamrup		***		***	•59	.39	
Darrang					1.59	1.31	
Nowgong		10110	H		1.01	55	
Sibsagar	***		edni ene	200	1.81	2 15	
Lakhimpur		0/13	(I)	1 1111	1.90	2.01	
in were ope			Total		1.20	1.03	

The total number of deaths registered from Dysentery and Diarrhæa during the year was 8,195 as compared with 9,267 in 1933. The corresponding death rates for the two years were 1.03 and 1.17 respectively and the decennial average 1.20. The highest number of deaths (815) was recorded in November and the lowest (534) in March. The highest mortality rate was returned from Sibsagar district (2.15) followed by Lakhimpur (2.01) and Darrang (1.31). The lowest rate was recorded in the Goalpara district (17). The number of deaths registered under "Dysentery and Diarrhæa" was less by 1,072 than that of the previous year. Bacteriophage is being largely used in the Nowgong district since December 1929. The effect of Bacteriophage on dysentery and Diarrhæa in this district does not appear to be very striking as the figures of mortality given below indicate:—

1929	swalls	Widel.only	allowed !		dyste.		203
1930			mg	981 188	I most	15 ***	277
1931							316
1932		***	***		***	***	248
1933	***			***			322
1934					***		310

27. A total of 6,440 deaths occurred under this head during the year under review as compared with 5,444 in the preceding year, yielding death-rates of '81 and '69 respectively. The quinquennial average was '72. The highest mortality from Respiratory Diseases was registered in March (658) and the lowest in May (462). As in the previous year, Lakhimpur district heads the list with a death-rate (2·10) followed by Cachar (1·64) and Sibsagar (1·35). The lowest rate was recorded in the Goalpara district (·15).

28. The mortality from this disease is included under "Fevers." The total number of deaths from sporadic cases of Influenza during 1934 was 66 against 73 in the preceding year.

Mild outbreaks were reported from Sibsagar and Cachar as in the previous year.

Other districts were free from this disease during the year under review.

29. During the year, 2,317 deaths from Injuries and 34,860 from "All other Causes" were returned as compared with 2,102 and 34,596 respectively in the preceding year. The corresponding death-rates were '29 and 4.40 in 1934 and '27 and 4.33 respectively in 1933.

Typhoid Fever.—A total of 42 deaths were reported from 10 towns of the Province, viz, Silchar (3), Sylhet (7), Karimganj (1), Gauhati (4), Dhubri (4), Tezpur (2), Nowgong (5), Jorhat (1), Dibrugarh (12) and Shillong (3). Protective T. A. B., inoculations were administered to contacts and other measures were taken to check the spread of the disease.

30. Nil.

Beri Beri.

31. During the year under report a total of 3,089 cases of this disease were brought under treatment with striking results in the Province The disease is very widely prevalent and there is every indication that it is showing a tendency to spread. An Editorial published in the Indian Medical Gazette in August 1930, quoted below, is of considerable importance. It runs as follows:—

"From recent reports of the prevalence of Yaws in Northern Burma, the Chittagong Hills Tracts and in different parts of Assam, it looks as if Yaws will be the next epidemic disease with which the Public Health Authorities in these areas will have to deal. It is therefore absolutely necessary to earry out a vigorous campaign in all known infected areas in order to prevent the disease in these localities from assuming severe epidemic proportions." The Public Health Department dispensaries undertake the treatment of Yaws pari passu and in conjunction with the treatment of Kala azar, Leprosy etc.

During the year new additional centres for the treatment of the disease were opened in the Kamrup district at the Nagarbara Public Health Department dispensary and at the Local Board dispensaries at Loharghat and Khetri. The disease is found generally prevalent in the foot hills in this district amongst Mikirs, Lalungs, Kacharis, Garos and Khasis who normally inhabit these submontane areas. In this district, a total of 749 cases were treated during the year. In the Goalpara district two new centres, one at Hirapara and another at Dudnai, were opened for the treatment of this disease by the Sub-Assistant Surgeons, Public Health Department. Additional treatment centres were also opened at the Local Board dispensaries at Chapor, Marnoi and Goalpara. A total of 1,826 cases of this disease were brought under treatment during the year. Here too, the disease is found to be widely prevalent in the submontane regions. In the Nowgong district a total of 431 cases were treated in the Public Health Department dispensaries as compared with 334 cases in 1933. In addition, treatment was extended to the Garo Hills district and also to Cachar, where the disease was also found to be prevalent.

32. During 1934, a total of 9,758 cases of Minor Eye Complaints were treated in the Public Health Department dispensaries.

33. During the year, the number of Sub-Assistant Surgeons of the Public Health Department remained the same as in the previous year. The following table shows the number of deaths from this disease from 1924 to 1934:—

Districts.	1924.	1925	1926.	19 27	1928.	1929.	1930,	1931.	1932.	1933.	1934.
1	2	3	4	3	6	7	8	9	10	411	12
Cachar	2	3	9	13	2	3	2	4	4	2	6
Sylhet	1,874	2.109	1,320	798	482	429	274	246	296	146	227
Goalpara	309	453	297	226	166	135	112	121	122	92	61
Kamrap I II	1,152	1,120	714	475	241	180	102	160	152	129	151
Darrang	448	478	474	318	258	241	185	222	155	167	136
Nowgong	1,479	1,445	839	528	260	178	132	129	132	110	78
Sibsogar	235	200	170	143	86	87	58	71	78	64	84
Lakhimpur	13	8	1	5	5	1	2		2	4	***
Khasi and Jaintia Hills	no feed	. 8	4	3	4		TO TOTAL	0101	7 821.05	outpr	PHILE
Naga Hills	2.14	1				1	1	***	1	1	0010
Lushai Hills	no ma	344	1		1			45 our	1		***
Garo Hills	69	435	346	350	154	149	84	64	43	34	23
Sadiya Frontier Tract	14	3	1881	1	1	1	574078	1900	1	941	bricer
Manipur State		2					1	***	***	48	in 18
	COL	Torp	7 010	uz pris	enh E	San L	4-4-A	1999	19 60	No. Th	
Total	5,585	6,365	4,176	2,859	1,660	1,405	953	1,017	987	749	770

The number of Kala azar cases treated from 1924 to 1934 are shown in the undermentioned table:—

Districts, "Thank	1924.	1925,	1926.	1927-	1928.	1929.	1930.	1931.	1932	1933.	1934.
director 1 a none	вивая	3	mit.	5	6	7 0	8	9	10	11	12
Cachar	253	442	333	3,359	394	470	376	370	391	472	529
Sylhet	16,516	10,934	16,855	10,527	8,988	9,162	6,726	5,512	4,719	4,210	4,612
Goalpara	5,016	6,003	5,671	3,495	2.316	2,389	1,439	992	1,069	1,159	1,107
Kamrup	5,780	8,753	7,301	6,445	3,577	2,598	1,814	1,690	2,061	2,223	2,197
Darrang avanza. medie	3,286	5,262	4,414	4 053	2,228	1,399	1,106	942	665	757	876
Nowgong	13,625	13,895	9,586	5.008	2,614	2,433	1,440	1,057	1,075	1,663	1.726
Sibsagar	2,929	3.285	2,658	1,521	1,555	2,387	1,495	1,095	1,269	1,251	1,372
Lakhimpur	81	99	20	19	28	23	23	3	12	13	18
Khasi and Jaintia Hills	274	213	198	120	6	100.8	SIMIL	TUR.	DA	1	deppt 2
Naga Hills	3	0.4	2	1	5	9	21	5	16	12	14
Lushai Hills	out to	of and	1000	noised.	1	Denin	36/1	4	2	1	
Garo Hills	985	1,952	2,812	1,828	1,690	2.905	1,905	882	605	850	927
Sadiya Frontier Tract	***	8	. 4	3	/ 8	3	2	2	1	2	1
Manipur State	22	85	31	36	166	35	83	38	53	36	14
t ten years ims been	at 51	1 1011	artir za	STELL	nt o	ololo	EIFO2 I	1311235	000 00	11.00	
Total	48,770	60 940	49,385	33,415	23,576	23,804	16,430	12,592	11,958	12,650	13,398

The number of deaths from Kala azar was larger in 1934 by 21 than that of the preceding year. The number of patients treated was also larger by 748 over 1933. The increase is shared by the districts of Cachar, Sylhet, Darrang, Nowgong Sibsagar and Garo Hills. As in the previous year, the attention of Civil Surgeons concerned has been drawn to this fact and they have been asked to report any possible recrudescence of the disease so that steps may be taken at once to deal with the situation. The method of diagnosis and treatment of Kala azar was the same as in previous years. Special attention is given in all districts to intensive and detailed surveys in order to detect fresh cases. Villages within a certain radius of dispensaries in Kala azar infected districts are surveyed by the Medical officers in charge. In the Cachar district the Sub-Assistant Surgeon deputed for the purpose surveyed Katigora, Hailakandi and Katlicherra areas during the year, visiting 12,550 houses and detecting 75 cases of the disease. Arrangements have been made for the treatment of these cases. During the year under review the number of beds in the Moibong Kala azar hospital was reduced from 20 to 10, owing to the fall in the number of patients.

In Sylhet, the number of fresh cases admitted during 1934 was larger by 488 than in 1933. This is attributable to the popularity of Kala azar treatment and to more thorough surveys. During the year under report a Public Health Department dispensary was opened at Sakhaity. In Goalpara, thorough and detailed surveys were carried out during the year. In Kamrup, exhaustive and through surveys were done for the detection of cases. Two new sub-centres, namely, Panbari under Digaru Public Health Department dispensary and Charali under Polashbari Local Board dispensary were started during 1934. Kamarkuchi Local Board dispensary commenced Kala azar treatment during the year under report. In Darrang, the Missamari and Goraimari areas in the Tezpur subdivision were thoroughly surveyed. In Nowgong, as in the previous year, the Railway Hospital at Lumding and the Local Board dispensaries in addition to Public Health Department dispensaries continued to treat Kala azar cases. A Public Health Department dispensaries continued to treat Kala azar cases. A Public Health Department dispensaries thoroughly carried out during 1934. In Sibsagar, Kala azar surveys were thoroughly carried out during the year. In the Garo Hills, the diseases is still prevalent. The total number of cases treated during the year in this district was 927, which was larger by 71 than that in 1933.

The following Assistant Surgeons and Sub-Assistant Surgeons deserve special mention for good work done during the year :—

ASSISTANT SURGEONS.

(1) Dr. P. K. Das, M.B., D.P.H., L.O. (Madras), (2) Dr. D. N. Das, M.B., (3) Dr. U. C. Bordoloi, M.B.

SUB-ASSISTANT SURGEONS: A LOAD TO TOURISH ONLY

(1) Dr. Azizur Rahman, (2) Dr. Nizamur Rahman Mazumdar, (3) Dr. Kameswar Hazarika, (4) Dr. Subodh Chandra Gogoi, (5) Dr. Jadav Chandra Chakravarty (6) Dr. Munawar Khan.

EPIDEMIC UNIT SUB-ASSISTANT SURGEONS.

(1) Dr. Habibur Rahman, (2) Dr. Ganshyam Das, (3) Dr. Kaziram Das.

34. Leprosy.—During the year under report, 52 Public Health Department dispensaries, viz., 21 in Sylhet, 11 in Nowgong, 6 in Darrang, 8 in Kamrup, 4 in Sibsagar and 2 in Goalpara against 45 in 1933, were engaged in the detection and treatment of leprosy. Sub-Assistant Surgeons of the Public Health Department undertake leprosy surveys in conjunction with kala azar and other surveys. A total of 2,679 lepers came under treatment in the Public Health Department dispensaries during the year, viz., Sylhet (925), Nowgong (464), Darrang (820), Kamrup (406), Sibsagar (32) and Goalpara (32). In addition, Local Board dispensaries and hospitals and Medical Department dispensaries treated 1,618 lepers during 1934. Treatment, though slow and tedious, is becoming popular and the number of patients is increasing. A contribution of Rs. 200 was received from the Assam Leprosy Relief Committee during the year for the purpose of equipping five more Public Health Department dispensaries.

CHAPTER IV. EPIDEMIOLOGY.

35. The mortality from cholera in Assam during the last ten years has been as follows:

as follows:						
1924				***	***	19,182
1925	vd 1801	of browned as				6,233
1926	rel ····	***	4 -1 ***	mar morr	envisin 10	10,275
1927		THE STREET	a samaging	in monming	1 907	15,392
1928	d daning	- Luchary	O BUOLLIND	ed by the	outs at cons	6,915
1929	o none an	n suit and	A ROOTA OF	As to the	allist or	7,765
1930	been. ask	OVER YO	di line to	of eight of	mweels no	6,332
1931	be inken	stew may	200 00 00 00 00 00 00 00 00 00 00 00 00	(ber dis	To recite the	5,523
1932	ent Ke	mines bu	diamenaile	In the land	or seller	4,971
1933	while He	ni amin a	***	fainte.		5,508
1934	distant and		***	Antibody and	10	1,904
		CONTRACTOR OF THE PARTY OF THE				

The Province was fortunate in that it remained free from any epidemic of the disease during the greater part of the year. Sporadic outbreaks, however, made their appearance in the Assam Valley districts from time to time. In November, however the district of Goalpara was visited by a serious outbreak of cholera in epidemic form. This epidemic involved 194 villages with 1,084 attacks and 599 deaths. All the available resources of the Public Health and Medical Departments were concentrated in combating the epidemic. In the Surma Valley there was no serious epidemic of cholera during the year under review. In December, however, there was an outbreak of cholera in the Habiganj subdivision.

CHAPTER V.

FAIRS AND FESTIVALS.

36. In the Cachar district in addition to the usual two Melas, viz., Sidheswar and Bhuban Hill, two other Fairs were held, one at Lalabazar and the other at Latakandi during the year under review. Abut 9,000 people attended the Sidheswar Mela which lasted for a fortnight. The Bhuban Hill Mela lasted for 3 days and about 8,000 people attended. The Lalabazur Mela was attended by 3,000 people for 3 days and in the Latakandi mela approximately 2,000 people attend and the Mela lasted for 4 days. A section of an Epidemic Unit attended the Sidheswar and Bhuban Hill Melas. All possible sanitary arrangements were made and no case of any epidemic disease was reported from any of them. The Daranga Fair was held as usual in the Kamrup district. A Sub-Assistant Surgeon of the Gauhati Epidemic Unit was deputed to this Mela. There was also a gathering of pilgrims at Kamakhya Hill on the occasion of Hindu Festival "Ambubachi" in the same district. A doctor was deputed to render medical aid. There was no outbreak of epidemic disease, Small fairs were also held in the rural areas of the district during the year under report and Medical Officers were made available when there was public demand. A gathering of approximately 10,000 pilgrims took place at Dhubri in the Goalpara district on the occasion of the Brahmaputra Snan (bathing

in the Brahmaputra river) and adequate arrangements were made by the Dhubri Municipal Board. Temporary latrines were constructed and arrangements were made for the supply of piped and filtered water in the town for the whole day. The district Assistant Surgeon of the Public Health Department with one Sub-Assistant Surgeon of the Medical Department and the Urban Health Officer were directed to look after the sanitary arrangements and to render medical aid. The Parasuram Kunda pilgrimage in the Sadiya Frontier Tract was held on the 14th January 1934. The Sub-Assistant Surgeon in charge Denning Civil dispensary was deputed to the pilgrimage.

CHAPTER VI.

URBAN SANITATION.

(Including Notified Areas.)

MUNICIPAL WATER SUPPLIES.

37. The number of Municipal Boards and Town Committees in Assam during the year under report was the same as in previous year, viz., 17 Municipal Boards and 9 Town Committees. The total income of these Boards and Town Committees was Rs. 11,95,245-9-4 as against Rs. 12,05,055 in the preceding year. A sum of Rs. 5,23,195-15-9 or 43.77 was spent on sanitary works original and recurring as compared with Rs. 5,35,925 or 44.47 in 1933. As usual, the Director and the Assistant Directors of Public Health inspected the Municipalities and Small Towns and offered advice on Public Health matters. As pointed out in the inspection notes on various municipalities there is yet much room for improvement in every direction in the matter of Public Health of the towns in the Province.

The following Urban Health Officers did good work during the year :-

(1) Dr. Dinesh Chandra Gupta. (2) Dr. Jatindra Mohan Roy. (2) Dr Khurshed Ali.

The Public Works Department incurred a total expenditure of Rs. 6,717-15-0 on the maintenance of water-supplies, drainage and town improvement as compared with Rs. 5,531 in the preceding year.

CHAPTER VII.

dointail ve doirtain bles eminid Rurat Sanitation.

38. The total expenditure of 19 Local Boards on Public Health during the year 1934 amounted to Rs. 1,41,278-8-0 as compared with Rs. 1,74,557 in the preceding year. Boards should make every endeavour to increase their expenditure on Public Health and especially on rural water supplies. Unless the latter is improved, water-borne diseases must always be present and which will from time to time assume epidemic proportions with dire consequences. The contemplated grant from the Government of India for this purpose will be of great value in this respect. Public Health measures which are extensively carried out in rural areas are protection against cholera by inoculation and against small-pox by vaccination. Kala azar treatment measures are being carried out on the usual lines as in previous years. Ouinine Reinforced Cinchona tablets for the treatment of malaria are being sold in all village Post Offices and through other accredited agents. Sums of money have also been set aside for the purchase of Quinine and Cinchona Febrifuge for free distribution to the indigent poor in all districts. Treatment of Yaws, Leprosy, Malaria and Minor Eye Complaints is also being undertaken by Public Health Department dispensaries in rural areas with marked success.

CHAPTER VIII.

39. Malarial Fever is by far the greatest scourge of the Province. It is prevalent throughout the Province in greater or lesser degree at all times in epidemic form. During the year, 665,983 cases of malaria were treated in all hospitals and dispensaries in the plains districts. Separate mortality figures from malaria are not available. As already noted there were 101,779 deaths from fever and this

is responsible for 65:37 per cent. of the total Provincial mortality during the year. The largest percentage of deaths under "Fevers" is directly attributed to malarial fevers. During the year under review, Quinine Sulphate was replaced by Quinine Reinforced Cinchona Febrifuge and was sold at 0-3 9 per treatment. To bring this preparation within easy reach of all, more Agents for its sale have been appointed. A lump provision of Rs. 24,500 was made by Government to carry out anti-malarial measures in the Province. The Provincial Advisory Malaria Committee held three meetings during the year to consider the relative merits of schemes and to allot funds. Anti-malarial measures were carried out in the following areas:—

Cachar-Hailakandi, Haflong, Barkhola and Moibong-Dittockcherra.

Sylhet-Sylhet town, Jaintiapur and Haripur.

Goalpara--Dhubri, Kachugaon, Abhoyapuri, Gossaigaon-Haltugaon and Gauripur.

Kamrup-Gauhati.

Darrang-Tezpur, Mangaldai and Tangla.

Nowgong-Nowgong, Jajari and Lumding.

Sibsagar-Jorhat, Sibsagar, Golaghat, Moabund and Sycotta.

Lakhimpur-Doom Dooma, North Lakhimpur and Tinsukia.

Naga Hills -- Kohima and Dimapur.

Khasi and Jaintia Hills-Shillong and Nongpoh.

Garo Hills-Tura.

Anti-malarial operations were carried out in the areas noted below with funds provided by the Government of India:—

Pasighat.—The scrub jungles were kept clean and no rain water was allowed to accumulate anywhere. The Moralali stream was cleansed and canalised. The compulsory use of mosquito-nets was enforced on the Assam Rifles and Bamber oil was issued to night sentries.

Charduar.—Malariol was sprayed in the breeding places and marshy lands were treated with Paris Green. Prophylactic Quinine was issued to the Coolie corps and positive cases of malaria in hospital and in quarters were treated with Atebrin and Plasmoquine according to the nature of infection.

Lokra.—Spraying operations with malariol were continued in the river Mansiri for a distance of a mile and marshy areas and pools were treated with Paris Green.

SALE OF QUININE.

40. The subjoined table shows the quantity of Quinine sold, district by district, during the year 1931 as compared with 1933:—

dlai 174,537 inth	daire bern		Treatment parcels s	old in-	Differe	nce.	
District	www.ingm		1984.	1933.	Increase.	Decrease.	
ie contemplated gran	nces. 1v	dilia o	2	3	me epidem	012 5	
Cachar	y yd xon	Henry Si	385	571	est chelera	175	
Sylhet	autil namar	Part No	2,038	2,094	оуществи.	61	
Goalpara	as lo dge	alles in	478	434	44	ontein(
Camrup	d agents.	enrodite	1,238	1,215	23	1117	
Darrang	d Carober	on water	488	451	37		
Nowgong	The transfer		396	288	108	***	
Sibsagar			977	901	76	STOREST BY	
akhimpur			*160	206	ZORTE DE	46	
Chasi and Jaintia Hills	West and The		543	640	and distinguish	97	
Naga Hills			80	76	4		
Lushai Hills			1,054	1,616		562	
Garo Hills			41	49		8	
Sadiya Frontier Tract			52	59		7	
Manipur State	10 100	00 1000	40	48	Inter-field	.08 8	
	Total	100 100	7,965	8,648	292	964	

^{*} Figures up to 31st May 1935 are not available as all records were destroyed by fire.

During the year under report 7,965 parcels of Quinine treatments were sold against 8,648 in the preceding year, showing a decrease of 683 parcels. The decrease is due mainly to a drop in sales by 562 parcels in the Lushai Hills district. The number of malaria cases treated in dispensaries of this district was less by 8,182 cases. This indicates that malaria was less prevalent in the district during the year under review. Up to June, Quinine, was sold at below cost price, i. e., at as. 4-6 per treatment. From July Quinine Reinforced Cinchona Febrifuge in tablet form was substituted and was made available for sale. The drug was sold to the public through the Agency of Post Offices and various other accredited Agents at as. 3-9 per treatment. The number of Agents for the sale of this drug was largely increased in order to bring the treatment within easy reach of all. As in the previous year, owing to the unusual virulence of malarial fever, the undermentioned quantities of quinine and cinchona were obtained for free distribution to indigent malaria patients in the badly infected areas in the plains districts:—

				Quinine sulph.	Cinchons. 1b. oz.
Cachar Sylhet Goalpara Kamrup			**	4 0 46 0 16 0 8 0	28 0 66 0 9 0 55 0
Darrang Nowgong Sibsagar	 1::			20 0 7 0	40 0 68 0 25 0
Boucon II		Total		101 0	291 0

A statement showing 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 each of the years 1932, 1933 and 1934 is also appended below.

	blonk odT doi:	On payment.	Lbs. oz. dr. gr. On payment. Lbs. oz. dr. gr.	
Jail.	Cinchona.	Free, C	dr. gr. Lb. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 0 6
	indi-	On payment.	C. Libs, oz. dr. gr. Libs. oz. dr. gr. d	
	Quinipe,	Free.	8 18 8 0 8 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1	39 14 4 20
	Cinchona.	On payment.	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
Medical Department.	Cibe	Fron.	Libs. ox. dr. gr. Libs. ox. dr. gr. Libs. ox. dr. gr. Libs. oz. dr. gr. dr. gr. Libs. oz. dr. gr. dr. gr	191 1 7 25
Medical		On payment. 2 0 0 0 0 1 0 0 0 0 3 0 0 0	2 0 0 0 0 1. 1 0 0 0 0 1. 1 0 0 0 0	6 30
	Quintine	Free.	Lbs. oz. dr. gr. 1. bs. oz. dr. gr.	87 4 6 30
	Cinchona,	1 On payment,	18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	87 4
	Cincl	Free.	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26 4 0 0
Public Health Department.	4		29 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	
Public	Quinine	Free,	Lbs. oz 26 12 16 10 10 10 10 10 10 10 10 10 10 10 10 10	101 1 2 0
			Cachar Goalpara Khasi and Jaintia Hills Garo Hills Kamrup Darrang Nowgong Sadiya Frontier Traet. Irakhimpur Sibaagar Lashai Hills Naga Hills Naga Hills Sylhet Treat Total Total Total Train Thils. Garo Hills Hills Tract Train Total	Total

CHAPTER IX.

MATERNITY AND CHILD WELFARE.

41. Maternity and Childwelfare is now receiving more attention in all districts and some subdividisional headquarters. A new Child Welfare centre was opened at Jorhat and a Health Welfare worker, trained in the Lady Reading Health School, New Delhi, took up the work during the year. The Lady Kerr Child Welfare centre in Shillong continued to function during the year. A total of 1,954 persons received attention during 1934 as against 1,592 in the previous year. In Nowgong, funds have been collected to start a Child Welfare centre and proposals to start centres in the Garo Hills, Sylhet and Silchar are under contemplation. Good work in the training of Dais is being done by the "Nari Sikshasram, Silchar". At Doom Dooma and in North Lakhimpur in the Lakhimpur district interest is being taken in Child Welfare work. There was a mortality of 40,143 amongst infants during 1934, which gives a mortality rate of 165:36. This appaling mortality of 110 infants per day in Assam can confidently be vastly improved but only after the establishment of many more and up-to-date Maternity and Child Welfare centres. The need for a much larger number of fully trained and experienced midwives is very real and much overdue.

CHAPTER X.

SCHOOL HYGIENE AND MEDICAL INSPECTION OF SCHOOL CHILDREN.

42. It was not possible during the year for the Assistant Directors to devote that amount of attention to School inspection and hygiene as considered desirable, as these officers were fully occupied on epidemic and flood relief duties. The Assistant Director of Public Health, Surma Valley and Hill Division however found time to inspect a few schools and delivered lectures to the pupils and teachers on health subjects. His inspection remarks on the general sanitary conditions of schools, as usual, were transmitted to the Director of Public Instruction for information and necessary action. Periodical medical examinations of pupils of selected institutions throughout the Province were carried out by the Medical Officers in charge. Remedial measures were suggested and lectures were delivered on general hygiene and sanitation.

CHAPTER XI.

HEALTH PROPAGANDA.

43. Public Health Propaganda with the aid of Magic Lantern demonstration was revived during the latter part of the year. Expenditure was met partly from the King George Thanksgiving (Anti-Tuberculosis) Fund and partly from the Public Health Budget.

INDIAN RED CROSS SOCIETY.

44. The full records of the progress of activities of the Red Cross Society will be found in the Honorary Secretary's Report for 1934. The number of branches was increased from 6 in 1933 to 13 in 1934. Very substantial progress was made with Red Cross activities during the year in the Province.

KING GEORGE THANKSGIVING (ANTI-TUBERCULOSIS) FUND.

During the year six sets of Tuberculosis slides were purchased and the Assistant Surgeons of the Public Health Department commenced Tuberculosis propaganda with the aid of Magic Lantern demonstrations. Twelve picture posters on Tuberculosis (six on causes and six on prevention) published by the Central Committee were distributed during the year for propaganda and publicity purposes. Some charts and pamphlets were distributed to High English and Middle English Schools and to the general public. The Sub-Committee of the Nowgong District Branch of the Indian Red Cross Society carried on propaganda work against Tuberculosis by means of Magic Lantern demonstrations.

CHAPTER XII.

PUBLIC HEALTH ADMINISTRATION.

Budget grants for the Department.

45. The financial condition of the Province, durin g the year under review was not such as would permit of any expansion of the Department.

The budget allotments for the years 1933-34 and 1934-35 were Rs. 6,10,600 and Rs. 6,63,800 respectively while those for the heads administered by the Director of Public Health amounted to Rs. 5,16,194 and Rs. 5,67,624 respectively.

During the years 1933-34 and 1934-35 supplementary grants of Rs. 55,100 and Rs. 16,182 respectively were sanctioned by Government.

The receipts of the Department for the years 1933-34 and 1934-35 amounted to Rs. 1,01,696 and Rs. 82,209 respectively.

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

1.	Director of Public Health	101	The need	William conirce.
2.	Assistant Directors of Public Health	w.ban	Inst. yany	engd midwinests
3.	Urban Health Officers			9
4.	Assistant Surgeons	ZHO	7	(1 permanent and 6 temporary.)
5.	Sub-Assistant Surgeons		104	(1 permanent and
	INSPECTION OF SCHOOL OHILDER	HADI		103 temporary:)
6.	Vaccination Inspecting Staff		89	(29 permanent and
				10 temporaryi)
7.	Clerks	college	26	(16 permanent and
108.				10 temporary,
35.5	Biochemist		Masti pile	ant Director of t'ul
9.	Compounders	****	b los also	(temporary)
10.	Literate packers	umon	morrands	ni si atosi 218
11.	Loaders	ON OI	hoditorens	s, ag usual, word tr
12.	Disinfectant Carriers	Ingilia	lon, Per	300
13.	Sample taker	THE OO	De Provin	dique throughout t
	Laboratory Assistant and Media Maker	anggras	15	(4 temporary)
	Vaccinators appointed by Government	in		37
	Hill Districts.			
	,, by Local Boards.	CAR		860
	,, by Municipalities			OF
	Development Books	Service.	- TT	
10	Servants		12 11 ···	120
10.	Servants		Sandanas S	Talalan II allan II O

The Municipal Board of Shillong appoints a fully qualified Health Officer.

A part of the pay of this officer is met by a contribution from Government.

CHAPTER XIII.

to sadming and Maccination: Vaccination: vanonal add at hand a

This chapter and all statistical tables connected therewith refer to the period from April 1st, 1934 to March 31st, 1935.

Introductory. 46. Vaccination was carried on as usual throughout the Province amongst a population of 9,247,857.

47. The total number of Vaccinators employed during the year was 444, as vaccination Agencies.

Compared with 435 in the preceding year. Vaccination among the general population was performed by Departmental Vaccinators and among the labour force on Tea Estates by Tea Garden Medical Officers. Railway employees were vaccinated by the Railway Medical Officers and in Jails by Sub-Assistant Surgeons in medical charge. The average number of persons vaccinated by each vaccinator was 1,588 during the year under report as compared with 1,502 in the preceding year.

The following diagram illustrates the death rates from Small-pox in each District side by side with the proportion of the Population protected against the disease by Vaccination during the seven years 1928-29 to 1934-35

Proportion of athefrem Small per 10,000 of Population	Cachar	Sylhet	Goalpara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur	Proportion of Population protected per 10,000
1 20.00	2	3	4	5	6	7	8	9	10
30-00			-				-		5,700 5,600
28.00									- 5,500
27.00									- 5,400
26-00									5,300
25-00									- 5,200
24-00									- 5,100
23-00							ST. BORNEY		- 5,000
22-00									- 4,900
21-00									- 4,800
20-00	-								4,700
19-00									4,600
18-00									4,500
									4,400
Control of the last of the las									
16.00									4,300
15-00							Townson		4,200
100000000000000000000000000000000000000									4,100
13-00		0.00							4,000
12-00		1							- 3,900
11-00						1			3,800
10-00									- 3,700
9-00									- 3,600
8-00				-			-		3,500
7-00	-	-	-				1		- 3,400
6-00			-						- 3,300
5-00									3,200
4.00		-							- 3,100
3.00									- 3,000
2-00		2000							2,900
1.00									- 2,800
-90									2,700
-80									2,600
-70									2,500
200									2,400
-60									2,300
-50 +									2,300
-40				775				THE RESERVE	
-30 -									3,100
-20									- 2,000
-19		Section 1		Marie Contraction		1000			- 1,900
-18 -			1						1,800
-17								THE RESERVE	1,700
-16					-				1,600
-15									1,500
-14	-		-	-	-				1,400
-13 -				-					1,300
-12 -									1,200
-11 -							-		1,100
10 -		-	-	-					1,000
-09	CO DECISION OF								900
-08	-								- 800
-07									700
-06			-						- 600
-05				Carlo Cons					- 500
-04									400
-03									300
03									200
-01							1	1	- 100
.01							1		_ 0

The folia-ing diagram illustrates the death rates from Small-rox by with the proportion of the Population protected against the disease by years 1928, 29, to 1834-35

48. The total number of operations performed during the year by all Agencies was 704,936, of which 41,785 were primary and 203,151 revaccinations, as compared with 706,460 in the preceding year of which 402,375 were primary and 304,085 revaccinations. This shows an increase of 9,410 in primary vaccinations and decrease of 10,934 in revaccinations. Variations in the district returns are criticised in paragraph 55.

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

		1934-35.	1933-34
Number of operations Ditto	by Departmental Vaccinators by the Staff of Dispensaries	656,712 7,263	653,168 6,779
Ditto Ditto	by Tea Garden Agencies by Jail, Asylum, Police und Emigration Hospital Agencies	36, 4 6 3,900	87,508 6,287
Ditto	by Railway Agencies	635	2,728

Vaccinations by Departmental Vaccinators.

49. The number of operations performed by Departmental Vaccinators during the year was 656,712 as compared with 653,163 in the preceding year.

Deaths from Small-pox.

50. A total of 231 deaths from Small-pox occurred in the Province, including Hill Districts, during the year

1934-35 as shown below :-

Cachar						Nil.
		0.00	***	***		
Sylhet		71.75	243	14.0	***	47
Khasi and Jaint	ia Hills	The state of		***		2
Naga Hills	3		O'S ALL			Nil.
Lushai Hills	80	0.000	181.30			Nil.
Goalpara			4.4		· ···	9
Kamrup	80		110.1			100
Darrang	50		1111			87
Nowgong	1		· · ·	111		15
Sibagar	100					6
Lakhimpur	100	1.003	000000	1135	***	8 7
Garo Hills		***				
Manipur	strat and			950 00	to or had	Nil.
Sadiya			***			Nil.
Balipara	William Inching		MILES DEL		110000000000000000000000000000000000000	Nil.
sam of Fridge						التنسب ال
	Total	titese	of bearanty	burrantesar	DOWNERS OFFI	231
						-

The ratio of deaths from Small-pox during the year 1934-35 was '02 per mille of population as compared with '03 in the preceding year. The highest death rate reported from Small-pox was in the district of Kamrup ('10) against ('07) in the preceding year. The death rate reported from Darrang was ('06) against ('04) in the preceding year.

The attached chart illustrates the death rates from Small-pox in each district side by side with the proportion of population protected against the disease by vaccination during the seven years from 1928-29 to 1934-35.

- Special Regulation.

 Special Regulation.

 Special Regulation.

 Tagement is given to the people to get themselves vaccinated. In certain localities amongst certain castes there is marked opposition to the acceptance of free vaccination. To overcome this hostility, resort is had to regulations framed under the Epidemic Diseases Act, 1897 (Act III of 1897), for the purpose of declaring a locality as a Small-pox infected area. During the year under report, the Samabari, Sialmari and Dalgaon Mauzas in the Mangaldai subdivision, Barbhogia, Chilabanda and Balipara Mauzas in the Tezpur Subdivision of the Darrang district, Nomati, Khata, Hajo Betna in the Gauhati Subdivision and Sarukhetri, Sariha, Uttarbojali, Bogoribari Chenga in the Barpeta Subdivision of the Kamrup district and the entire Goalpara district were declared as Small-pox infected areas.
- 52. A total of 7,263 vaccinations were performed by Dispensary staff of which 2,285 were primary and 114,978 were revaccinations, as compared | with 6,779 in 1933-34 with 2,161 primary and 4,618 revaccinations.

blishments was 91.07 for primary vaccination and 64.39 for revaccination as compared with 91.80 and 61.26 respectively in 1933-34. The successful percentage in primary vaccinations and revaccinations in the case of dispensary staff was 93.90 and 55.96 as against 90.95 and 68.56 respectively in 1933-34. No complaints in regard to the potency of lymph supplied were received during the year.

54. 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.

Vaccination work in different with the preceding year:—

		tion	1934-35,	1933-34.	by Jail, J	Dogrease.	
2,715		mode and	Total.	Total.	Increase.	Decrease.	
as 217,860 as	w rater w	lucing th	beinggen	mental V	International Control	Andreas by	
Cachar	anitreopri	S in the r	49,167	46,544	2,623		
Sylhet		N 31 1	161,406	158,631	2,775	***	
Khasi and Jaintia Hil	ls supp m	our strium	26.5×2	17,793	8,7×9	Destroy See See	
Naga Hills	stricts, d	g Hill Di	10,279	9 039	1,240		
Lushai Hills	***		12,956	12,307	649	84-85 as sho	
Goalpara			119,790	157,992		38,202	
Kamrup	***		58,592	63,989		5,097	
Darrang			65,199	46,954	18,245	Sylliet	
Nowgong			42.0~9	35,816	6,278	bad Z	
Sibsagar			59,620	57,647	1,973	sneK	
Lakhimpur			42,093	39,999	2,094	carland.	
Garo Hills			25,163	30,370		5,207	
Manipur State	***		24,578	24,598		25	
Sadiya Frontier Tract	***		6,679	4,197	2,482	Daniel No.	
		***	448	584		100	
Balipara Frontier Tra-	et	***	990	904	20	pawoM 136	
Total			704,936	706,460		1 594	
1 Oral		***	109,500	100,100	1001	1,524	

The noticeable fall of 38,202 in the Goalpara district is attributed to the fact that the areas under South Salmara and Mankachar Police stations escaped vaccination during 1932-33 and consequently during the year under report the majority of the vaccinators were engaged and worked in these areas. The increase in the Darrang district is the highest (18,245). Normally, a vaccinator is expected to perform a minimum of 250 vaccinations in a month during the vaccination season. The mortality from Small-pox in the Kamrup district is the highest in the Province. No vaccinations were performed by the dispensary staff in the Cachar district.

Composition and strength of the Inspecting Staff.

Composition and strength of the Inspecting Staff.

Composition and strength of the Inspecting Staff.

Inspecting staff was the same as in previous years and consisted of 9 Inspectors, 20 permanent and 10 temporary Sub-Inspectors of Vaccination, and 2 Sub-Inspectors of Vaccination were entertained by the Manipur State.

Vaccination in compulsory of these 764 died. A total of 6,032 infants were therefore available for vaccination. A total of 3,010 or 49.90 per cent. were successfully vaccinated as compar-

ed with 53.69 per cent. during the previous year. In Gauhati town 74.70 per cent, of the available infants were vaccinated. In other towns the percentage of vaccinated children was:—Maulvi Bazar (72.73 per cent.), Nowgong (71.30 per cent.) Barpeta (70.92 per cent.) Shillong (65.97 per cent.), Goalpara (58.01 per cent.) Dibrugarh (53.96 per cent.), Sylhet (51.91 per cent.), Jorhat (44.40 per cent.), Doom Dooma (43.75 per cent.), Mangaldai (41.30 per cent.), Tinsukia (41.05 per cent.), Silchar (41.03 per cent.), Gauripur (40.00 per cent.) Karimganj (32.32 per cent.) Habiganj (26.48 per cent.) Dhubri (24.17 per cent.), Tezpur (24.15 per cent.), Sibsagar (12.61 per cent.), Hailakandi (10.15 per cent.). Absurdly low rates were returned from Golaghat (3.24 per cent.), Sunamganj (5.41 per cent.) and in Nazira town (3.90 per cent.). The vaccination inspecting staff in charge of these areas will be made to take more interest in this most important branch of their duties.

In Rural Compulsory Areas under Village Authorities in the Sylhet district, 2,093 operations were performed as compared with 2,071 in the previous year.

8. The total number of capillary tubes loaded during the year was 8,63,842 as compared with 9,16,744 in the previous year. The number of calves purchased and inoculated during the year under report was 602, excluding 6 brought forward from the previous year. There were no deaths amongst the inoculated calves during the year under report. Out of 608 calves, (including 6 of the previous year), lymph was taken from 523 calves. A total of 85 calves were rejected, 56 on account of illness 25 on account of failure of operations and 4 on account of unsatisfactory vesicles, as compared with 37,247 and 1 death respectively in the preceding year. The average number of tubes prepared per calf was 1,333 as compared with 1,890 in 1933-34. The total cost of working the Vaccine Depot was Rs. 18,678 of which Rs. 6,152 was on establishment, Rs 4,149 on purchase of calves, Rs. 64 on feed of calves, Rs. 4,758 on purchase of capillary tubes and instruments and Rs. 3,555 on miscellaneous expenditure, as compared with Rs. 18,663-10-6 in the preceding year. Lymph as usual was supplied free throughout the year to Civil Surgeons, Inspectors and Sub-Inspectors of Vaccination, and Local and Municipal Boards. Tea gardens, Railways, Welsh Mission Hospital, Manipur State, Sadiva and Balipara Frontier Tracts and Medical Officers of Military Units were supplied with the lymph on payment at the rate of one anna per tube.

The subordinate charge of the Vaccine Depot was held by Rai Sahib Dr. Aswini Kumar Parkayastha throughout the year with considerable credit.

- 59. The total expenditure including the charges of the Vaccine Depot, on vaccination in Assam during the year under report was Rs. 1,15,759-0-6 as compared with Rs. 1.09,548-1-6 in the preceding year. The average cost of each, successful vaccination during the year was annas three and pies nine only as in the previous year.
- 60. Primary vaccinations and revaccinations by the dispensary staff numbere d

 2,285 and 4,978 respectively and by the Railway

 Medical Officers 112 and 523 respectively. Their successful percentages were 93.90, 55.96 and 81.25 and 32.46 respectively. The following Inspectors and Sub-Inspectors of Vaccination did good work during the year:—

INSPECTORS OF VACCINATION.

61. Maulavi Wazuddin Ahmed (Nowgong), Maulavi Anjumal Hussain Ahmed (Darrang), Babu Srish Chandra Roy Chaudhury (Cachar).

SUB-INSPECTORS OF VACCINATION.

Babu Mahendra Nath Das (Sadiya Frontier Tract), Srijut Someswar Saikia (Nowgong), Srijut Padmaram Gogoi (Sibsagar), Babu Chandramoni Barman (Cachar), Srijut Surbeswar Neog (Darrang), Maulavi Muhammad Furkan Ali (Cachar).

CHAPTER XIV.

OTHER PUBLIC HEALTH SERVICES.

62. The principal industry in the province is the cultivation and manufacture of Tea. The sanitary conditions on tea gardens are generally satisfactory. Special regulations exist under the Emigration Act for the supervision of sanitary conditions on tea estates.

The Indian Factories Act controls sanitation in Factories and also in regard to Offensive Trades. Towns would be rendered healthier if the various industries were allowed to grow and function outside.

Valley Colliery and the Mine at Digboi and the Civil Surgeon, Naga Hills inspected the sanitary condition of Borjan Colliery during the year under review. Assistant Directors of Public Health, who are also ex-officio Inspectors of Mines, undertook no inspection of Mines. The Civil Surgeon, Lakhimpur, was satisfied with the sanitary and medical arrangements existing in the Mine at Digboi. The arrangements in the collieries were not very satisfactory and the Civil Surgeon has suggested improvements.

Public Analyst (Food Adultera-

64. The appended table shows the work done in the Public Health Laboratory in 1934 as compared with that of the previous year.

caC to tragen makes or ayraph parts	193	4 also also	1933.		
nt of illuses 25 on account of the last with the last wilder. As company to the	Number examined.	Number found adulterated.	Number examined.	Number found adulterated.	
de see 251.8 1 an don't lo 25	2	8	d pertent n	5	
Chemical analysis of water	98	bna rodor	108	parabase :	
Ditto Milk	369	175	274	98	
Ditto Ghee	92	55	78	48	
Ditto Mustard oil	99	38	81	Lecibell 41	
Ditto Butter	1	1	1	Dine subo	
Ditto Atta	4	2	waiths thro	umur Parki	
Ditto Flour (Maida)	5	3	oral expend	onl agence	
Ditto Cocoanut oil	5	4	equipment Pho	oilarean a	
Ditto Tea	10	8	ban cheris and	DEC MES SHIP	
Ditto Sago	1	na Langa	ary vaccina	69. Prio	
Ditto Turmerie powder	2	2	1		
Ditto Rice	nolina	to motosqu	14	ompugant 3	
Ditto Sugar	PRODUK V SP	2.000000001			
Ditto Other foodstuffs	(Supprod)	Inend A all	14	to she fact	
MISCELLANEOUS CHEMICAL	Sangparet)	bandra Roy	deine mia	(aperto	
ANALYSIS.	DON'Y YOUR	omayer I-s	Boinstor is	peoted to	
Bacteriological analysis of water	596	8 D (8)	554	Been	
Ditto Vaccine lymph	430	of more	400	owgung).	
Miscellaneous Microscopical examination of blood films, etc.		Life state at	1	(Yadan	
Antiseptic larvicides	ATT METER	TORR. OF THE			
Other chemical analysis (Miscellaneous)	2	Linux Samu		Je Bans	
Total	1,714	284	1,525	8	

The number of samples analysed during the year under report was 1,714 against 1,525 in the preceding year. A larger number of samples of food-stuffs were analysed during the year under review as compared with that of 1933. As usual, bacteriological and chemical examinations of filtered waters of all water works and Jails in the Province were satisfactorily carried out throughout the year. The Laboratory worked as the Provincial Depôt for the supply and despatch of urea-stibamine and spare parts of syringes to Kala azar dispensaries.

Dr. Surendra Chandra Datta held charge of the Laboratory with credit hroughout the year.

The statement below shows the number of cases instituted and the amount of fines inflicted for the sale of adulterated food during 1934—

Statement of the working of the Assam Pure Food Act in the districts and Municipalities during the year 1931.

						t	he year 1	934.			-	Dieta San and
Name o Local Authorities.	Number of sample purchased,	Number of sample sent for ana- lytis.	Number of samples found adulte-	Number of prosecution instituted,	Number of conviction secure for for first offences.	Number of coeriction secured for subsequent offences.	Amount of fine or imprisonment for each first offence (average)'	Amount of fine or imprisonment for each subsequent offcices (average).	Nature of offences.	Total amount of fine realised during 1954,	Ret	trollamak narks.
1	2	3		5	6	7	8	9	10	in		19
at without our o	4	10	77.	1	17		Re. a. p.		e at i	Rs. a. p.	\$11 TO	
1. Dibruga r h Munjeipal Boord.	-	64	23	34	31	3	-		For adultera- tion of food- stuff, and rotten fish.	613 0 0		Amile I
2. North La- khimpur Town Com- mittee.	-	-	,	•	•	-	3 5 4 each.	-	Selling adulte- rated milk.	27 0 0		amount of fine was Rs. 30,
3. Doom Doo- ma Town Committee,	1	1	1	1	-		100	25	Selling adulte- rated milk.	25 0 0	41	In Section 12
4. Tinsukia Town Com- mittee.	-				-	-		+		-	10	ST. Fishing
S. Jorhat Municipal Board.	18-	8	7	11	11		58 13 0	-	For selling adulterated gates and milk.	250 0 0		Liquidar M. Jennik
6. Sibsagar Municipal Board.			-	-		-		-	*****	-		forgonies to the lead of the l
F. Golaghat Municipal Board.	Control Louised	0		of the S	-	-	-			-		March gal
S. Nosira Town Com- mittee.	-		-	-		-		-		-		SERVE TO
9. Nowgong Municipal Heard.	40	40	2	7	3		33 0 0	-	Adulteration of sheat flour and coccanut oil.	195 0 0	expenses to sadar	ses acquitted, sixed 15 cases on of cost and and donation dispensary for le dispensary.
10. Tespur Municipal Board,	3	3	3	3	,	-	30 4 0 each,		For selling and storing for eale adulte- rated milk and mustard oil.	65 8 0	Assam the offer	er case under 15 (3) of the Pure Food Act pder was fined r selling rotten
11. Mangaidai Town Com- mittee.		-	-		-	-	-	-	*****			Camalilles
12. Gauhati Muni-ipal Board.	16	16	7	7	2		-	EW.	For selling adulterated tea.	25 0 0	name, or	itted for false ne filed as the could not be Three cases are
15. Barpeta Mu-icipal Board.	201	gado	ni	aller d	Lich	din is	T (19	(Ci	Dao II		dary Wa	
14. Palasbari Town Com- mittee.	2 706	1	out i	o mil	(27)	motric	E) the	off will	Logg.	Just	S diled	
15. Silchar Municipal Board,	-	60	35	-	-	VX.	EFFER	BO	For adultera- tion of food- stuff, namely mustard oil, cow's 'gher and mixed cow and buffalo gher.	-	but thes taken fre- sent to the miner for prosecut	f foodstuffs were sally purchased e were simply om the shops and he Chemical Exa- r analysis. No lon was institu- nat offenders but
Hosparch contri-	Lical	DJE .	mrse.	thock		tanst inty	is en	nivo	d edini	Isow il	on payme	re compromised ent of donation totally amount- ts. 162-5 0.
16. Hallakandi Town Committee,	370	marin o	1	1	nioti	oloid oloid	100	lo a	Selling adul- terated milt.	1 0 of	2 Pub	Director o
17. Dhubri Municipal Board.	Q Pa	isimi	conta	niveg	BE	office and	66 0 0	nettd bests	Under section 6(1) read with section 1s of the Assars Pure Food Act.	170 0 0	lies of y of s	The active The surve
1s. Goalpara Municipal Board.	-	-	ETIN 3	-	-			-	успа	ed gu	kub n	oisivibóna

Statement of the working of the Assam Pure Food Act in the districts and municipalities during the year 1934-concld.

			-		State	3.00	See from	NEW PARTY	us to plan	our rot	perought same
Name of Local authorities.	Number of sample purchased.	Number of 'rample sent for aca- lysis.	Number of samples found adulte-	Number of prescution instituted.	Number of conviction secured for first offences.	Number of conviction secured for subsequent often es.	Amount of fine or imprisonment for each first offences (average).	Amount of fine or imprisonment for each subsequent effences (average).	Nature of offences.	Total amount of fine realised during 1954.	Remarks,
1	,	8	4	5		1 7	8	9	10	11	19
Berlin M.				12			Rs. a. p.		8-	Re. a, p.	1 1
19. Shillong Municipal Board.		313	163	152	97		8 14 9		Watered and skimmed nil. Adul- terated mus- tard oil.	874 0 0	Nine cases are pending in court, 39 accused were not found and 6 cases were sequitted. The Assam Pure Food Act has not been extended to the non-British portion of the Shillong Municipality and stees have been taken for the extension of the Act.
30. Sylhet Municipal Board.	15	15	15	15	7.0	-	19 0 0	-	Stocked adulterated articles of food, drinks exposes for sale to public.	137 0 0	A. Doute Door 1 Committee
21. Habiganj Municipal Board,	16	14			100	-	10 M2		Adultented mustard oil and give.		All the prosecutions were withdr wn as the scensed furnished writt-in understanding that they will not deal with adul- terated oil.
22. Sunamganj Municipal Board, 23. Karimganj Municipal Board.	,	7		3		-	(Re. 10 as fine, Rs. cas dona tion).	-	Adulteration of give and mustard oil,	82 0 0	*The measure taken hitherto to check adulterated food, oil and ghe had its determine effect upon the supply of impure food. Two were disposed of otherwise on payment of donation to the Hospital Charity Fund and on guarantee the contract of the office of the contract of
24. Maulvibaza Municipal Board. 26. Geourpur		1 - 1 - 1	845 ar 1		ACA CANADA		1 00				on payment of contacton to the Hospital Charity Fund and on guarantee of future conduct. Out of three one was convicted and fined Re. 10 and other two could not be traced out.
Town Com- Committee,			-			-		+	- 44		- bitspail .II

Port Health Administration.

65. Nil.

Sanitary Works.

66. (Civi.) This is dealt with in Chapter VI under heading "Urban Sanitation".

67. There was no meeting of the Public Health Board during the year. The Public Health Board (Epidemics) functioned as in the previous year.

CHAPTER XV.

GENERAL REMARKS.

68. Research work in the Province is entrusted to the Assam Medical Research

Society. The Society is in receipt of an annual contribution of Rs. 25,000 from the Government, and the Director of Public Health, Assam, is an ex-officio Member of the Governing Body. The activities of the Society have been confined to Malaria, Cholera, and Dysentery. The survey of certain malarious areas continues. Experiments with Cholera and Dysentery Bacteriophage were continued in the Nowgong district and Habiganj subdivision during the year.

Leper Asylums and Colonies.

69. The appended statement shows the details of patients treated in the existing leper institutions in the Province:—

of the Indian the Line Cholera	Remaining from previous year.	Admissions during the year.	Total.	Discharged cured or relieved.	Discharged other- wise.	Died	Remaining at the end of the year-
1	2 .	3	4	5	6	7	8 11
Sylhet Leper Asylum.	70	80	100	13	10	5	72
Kohima Leper Hospital.	21	10	31	5	V mank	014	21
Leper Ward, Dhubri.	the Haff	15	24	Hadlong	i noramora	aisolae	12
Leper Colony, Tura.	84 76	a has soi	174	the Rood	92 or	an de A	1 1 76 La 1

The Leper Asylum at Gauhati, opened by the Gauhati Municipal Board, and the Leper Colony at Jorhat started by the American Baptist Missionary Society, treated 87 and 53 lepers respectively during the year under review. Treatment of leprosy is available in out-patient clinics at all Sadr and Subdivisional headquarters hospitals and at many of the more important outlying dispensaries. Fifty-two Public Health Department dispensaries have so far been equipped for the treatment of leprosy.

Famine.

70. No remaks.

Public Health Acts.

71. No Public Health Act was passed during the year.

- Public Health Essays.

72. Nil.

Bacteriophage.—The Pasteur and Medical Research Institute, Shillong issued 8,71,316 doses of Bacteriophage during the year under report. The demand for Bacteriophage in Tea Gardens in the treatment of bacillary dysentery is steadily increasing. The work of distribution of Bacteriophage in the prevention of Cholera in the Nowgong district and in the Habiganj subdivision of the Sylhet district was transferred to the Public Health Department during the year under review. The statistics of mortality in these two areas during the past 5 years are given below:—

Goalpara	lies is	930.	ra epi	931.	finge la	932.	on con	933-	1934.		
le manner daring the Personal	Cholera.	Dysentery and diarrhosa.	Cholera.	Dysont ry and diarrhosa.	Cholera.	Dysentery and diarrhosa.	Cholera.	Dysentery and diorrhœa,	Cholera.	Dysentery and diarrhosa.	
1	2	3	4	5	6	7	8	9	10	11	
Nowgang Habiganj	53 1307	277 665	694	316 564	27 493	250 511	22 211	822 625	22 176	310 645	

Neo-Stibosan.--The administration of this preparation is restricted to Urban Areas only where hospital conditions exist.

Plasmoquine and Atebrin. These drugs were tried experimentally in the

treatment of malaria and also for prophylactic purposes.

73. I held charge of the Department throughout the year. During the months of January and February, I inspected Kala azar Leprosy and Yaws operations and also Vaccination work in the districts of Kamrup, Nowgong, Sibsagar and Lakhimpur. In May, I visited Dibrugarh and conducted the examination in Hygiene and Vaccination at the Berry-White Medical School and also attended the Selection Board at Gauhati for the recruitment of candidates for the Assam Medical Service (Senior). June and July were spent at headquarters in the preparation of administrative reports and in administrative work. In August, I carried out the routine inspection of Municipalities of Tezpur and Jorhat. In September, I inspected the Government Offices in Shillong with special reference to overcrowding, ventilation, air space and general sanitary.

conditions prevailing in the buildings. In October, I conducted the examinations in the Berry-White Medical School and also carried out inspection of the Dibrugarh Municipality. In November, I carried out routine inspections of the Municipalities of Silchar and Karimganj and also attended a meeting of the Indian Research Fund Association in Calcutta. In December, I supervised the Cholera epidemic in Goalpara district and in addition inspected Kala azar, Leprosy and Yaws operations and vaccination work in Goalpara, Kamrup and Nowgong districts.

Dr. P. Gupta, M.B., D.T.M. and H., FR.P.P.S., D.P.H., held the post of Assistant Director of Public Health, Assam Valley Division, up to the 11th January when he proceeded on 4 months' leave. On his return in the later part of May he was transferred to the Surma Valley and Hill Districts Division. In June, he was engaged in Bacteriophage distribution work in Habiganj and in addition inspected the anti-malaria operation in Haflong and sanitation of the Haflong town. In July and August he visited the flood-affected areas of Sylhet district and also inspected Kala asar work of the Sylhet district and anti-malaria operations in Jaintiapur. In September, he was engaged in a Malaria survey of Haripur and also took the spleen rate of some areas in the Habiganj subdivision. In October he was engaged in Laboratory work. During the months of November and December, he was employed in the Cholera epidemic in Goalpara district and in addition, inspected Kala azar, Leprosy and Vaccination operations in the Sylhet district.

Dr. S. H. Paul, Le.C.P., M.R.C.S., D.P.H., D.T.M., held the post of the Assistant Director of Public Health, Surma Valley and Hill Division, up to the middle of May 1935, when he was transferred to the Assam Valley Division. During the months of January to April, he inspected Kala azar and Vaccination operations, and also carried out inspection of schools in the Sylhet district and in addition organised and supervised Childwelfare and Maternity sections of the exhibitions held at Sunamganj and Sylhet and also trained Sub-Assistant Surgeons in malariology. In May, he supervised the work of the malaria laboratories in Sylhet and Gauhati. In June, he inspected anti-malaria operations in Kachugaon and Haltugaon and the Malaria survey work at Abhoyapuri. In July and August, he was engaged in flood relief work in Nowgong district and in addition visited cholera affected villages in the Kamrup district. In September, he inspected anti-malaria operations in the Goalpara district and also inspected Kala azar and supervised cholera work in the Kamrup district. In October, he inspected the Barpeta Municipality and supervised cholera work in the Kamrup district. In November and December, he was employed on cholera epidemic duties in Goalpara and Kamrup districts.

74. In conclusion I have to thank my entire Office staff for the able manner in which they have carried out their duties during the year. In particular, I have to thank my Personal Assistant, Babu Iswar Chandra Das, for his very loyal and able services.

Plantoprine and Mebrin, These drags were tried experimentally in the

treatment of melaria and also for prophylactic purposes.
73. I held charge of the Department throughout the year. During the

with special reference to overecowding, ventilation, air space and general smillings.

T. D. MURISON,

Lieut.-Colonel, I. M. S.,

Director of Public Health, Assam.

IMPHRIAL STATEMENT No. L. Statement showing the birds

M. Marah	ign billiof to u								
1,13,899									
			111						
	Isass								
				STATE	MENTS				
		1282,09	000,100.V	ITAL ST	ATISTIC	s			
	1,17,018						donivery e	d) od hoor	

PAPERIAL STATEMENT No. 11 .- Statement cleming the births and deaths

		- Light	1		

IMPERIAL STATEMENT No. I .- Statement showing the birth's

	Districts.	us in 6	Population acc	cording to the C	census of 1931.	Number	r of births regis	stered.
No.	Districts.		Male.	Female.	Total.	Male.	Pemale.	Total.
1	2	a de la companya della companya della companya de la companya della companya dell	3		5	6	7	8
	SURMA VALL	EY.	Valle	7779			Janes	y whi
1	Cachar		284,738	254,073	538,811	9,561	8,981	18,54
2	Sylhet		1,407,645	1,316,697	2,724,342	49,290	45,497	94,78
	Total		1,692,383	1,570,770	3,263,153	58,851	54,478	1,13,32
	ASSAM VALL	EY.	WHEN THE	PER IN	Males			
3	Goalpara		470,273	412,475	882,748	15,784	14,628	30,41
4	Kamrup		513,345	463,401	976,746	10,710	10,254	20,96
5	Darrang		317,103	267,714	584,817	10,062	9,390	19,45
6	Nowgong		298,585	263,996	562,581	5,470	4,938	10,40
7	Sibsagar		496,288	437,038	933,326	13,932	12,809	26,74
8	Lakhimpur		399,108	325,474	724,582	10,931	10,519	21,45
	Total		2,494,702	2,170,098	4,664,800	66,889	62,538	1,29,42
	Total for the pro	vince	4,187,085	3,740,868	7,927,953	1,25,740	1,17.016	2,42,75

IMPERIAL STATEMENT No. II .- Statement showing the births and deaths

			equare	Populati	ion (Census	of 1931).	Birth	18.	Number	of deaths r	registere d
No.	Districts.	Area, in square miles.	Average population per sq mile.	Male.	Female.	Total.	Total number.	Births per 1,000 of population.	Malo.	Female.	Total.
1	2	3	4	5	6	7	8	9	10	11	12
1 2	SURMA VALLEY. Cachar Sylhet	1,972 5,478	273 497	284,738 1,407,645	254,073 1,316,697	538,811 2,724,342	18,542 94,787	34·41 34·79	5,147 31,994	4,974 28,177	10,121 60,171
	Total	7,450	438	1,692,383	1,570,770	3,263,153	1,13,329	34.73	37,141	33,151	70,292
3	ASSAM VALLEY.	3,985	222	470,273	412,475	881,748	30,412	34.45	11,433	9,871	20,704
4	Kamrup	3,844	254	513,345	463,401	976,746	20,964	21.46	7,121	6,422	13,543
5	Darrang	2,842	206	317,103	267,714	584,817	19,452	23-26	6,285	6,240	12,525
6	Nowgong	3,896	144	298,585	263,996	562,581	10,408	18-50	3,314	8,058	6,372
7	Sibeagur	5,131	182	496,288	437,038	933,326	26,741	23.65	9,667	8,633	17,700
8	Lakhimpur	4,234	171	399,108	325,474	724,582	21,450	29-60	7,586	6,979	14,565
	Total	23,932	195	2,494,702	2,170,098	4,664,800	129,427	27.75	44,806	40,603	85,409
	Total for the province	31,382	253	4,187,085	3,740,868	7,927,953	242,756	30-62	81,947	73,754	1,55,701

registered in the districts of Assam during the year 1934.

Ratio of bis	rths per 1,000 of	population.	Number of males born to every 100	Excess of births over deaths per	Excess of deaths over births per 1,000 of popu-	Mean ratio of birt	hs per 1,000 during years.	the previous f
Male.	Female.	Total.	females born.	lation.	lation.	Male.	Female.	Total.
	10	11	12	13	14	15	16	17
100	1	14	1814.4	Brt.i		1 1020 1		6-81
17:74	16-67	34.41	106	15.63		16-43	15.57	31-99
18-09	16*70	34.79	108	12.71		17.56	16:37	33-93
18:04	16-69	34-73	108	13-19		17:37	16:24	33-6
17:88	16-57	34*45	108	11*00		15.93	14.98	30-9
10.96	10.49	21.46	104	7-60		11.39	10.65	22.0
17.20	16.06	33-26	107	11.84		13.57	12-92	26-45
9.72	8.78	18.50	111	7.17		11.19	10.46	21.6
14.93	13.72	28-65	109	9.69		13.66	12.79	26.4
15.08	14:52	29-60	104	9.50		13-03	12:52	25.5
14:34	13 41	27-75	107	9.44		13:21	12:45	25.60
15.86	14.76	30-62	107	10-98		14.92	14:01	28-9:

registered in the districts of Assam during the year 1931.

3 to			1 I	eaths pe	r 1,000	of pop	ulation	from-				Mean rat	io of deaths	per 1,000 five years.
female					rhoes.					All cause	4.	RAT ME	BELL	
Number of deaths of males overy 100 deaths of females.	Cholera.	Small-por.	Plague.	Ferer.	Dysontory and Diarrhosa	Respiratory diseases.	Injurios.	All other causes.	Male.	Female.	Total.	Malo.	Female.	Total.
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1														
103	.03			9.74	1.09	1.64	-29	5.98	18-08	19-58	18-78	20-14	21:94	20:99
114	-44	-02		12:93	-93	-52	.40	6.86	22 73	21.40	22.09	21-98	21.08	21 51
112	-37	-02	ut	12:40	-96	-70	-38	6.71	21:95	21:10	21.24	21.61	21-22	21-42
10		+	111	1			6		141					higani
123	'48	'01		21.95	.17	.15	19	.51	24:31	22-48	23:45	22-90	21.61	22:30
111	-09	-68		11:33	-39	-28	-24	1.45	13.87	13.86	13%6	13%7	13 84	13.75
101	-05	-07		13 87	1.31	1-26	.27	4:58	19-82	28:31	21:43	19.85	21.99	20:83
108	-04	-01	***	9-01	.22	-38	.13	1.21	11.10	11.28	11:33	13 13	13.86	13:41
105	.09	.01		11.07	2 15	1.35	-23	4.06	18 27	19.75	18*96	16-29	17:23	16.74
109	-05	.01	****	10-16	2-01	2-10	-31	5:45	19-01	21-44	20.10	1674	19:06	17-78
110	-15	.03		13-15	1:09	*89	-23	2.78	17:96	18-71	18:31	16.85	17:48	17:14
111	-24	-03	Sale.	12.84	1.03	· 81	-29	4:40	19:57	19-72	19 64	18'77	19:05	18:90

IMPERIAL STATEMENT No. III .- Deaths registered in the

No.	the postern first	ABi	aral circles.		ries is co.	January.	February.	March.	April.	May.
1	447	dent,	.60.0		Series	3			6	Table 7
1 2	Cachar Sylhet	"	11			1,143	739 6,666	692 4,302	727 4,338	854
3 4	Goalpara Kamrup					1,783 928	1,478	1,413 947	1,893 1,075	4,115 1,738 1,707
6 7	Darrang Nowgong Sibsagar		10 45			890 481 1,156	641 379 1,248	858 554 1,186	964 619 1,253	1,150 631 1,676
ь	Lakhimpur	***				880	805	978	932	1,354
	He was to the same	l for rural cir	13037	***		14,176	11,692	10,930	11,801	13,225
	Ratio	per mille of	population	1		1.80	1.64	1.39	1.55	1.64

,	No ste	ВТо	owns.	II		441	Janu	nry.	Februa	гу.	Marc	h.	OL	April.	100	May.
	the second	Orti	19				100		101	"	11.12	1	yer	0	ett	
	20:10	91-01	3 90	11			11.		1134		8	6	18	6	1	7
i	14/10	SURMA	A VALLE	Y.			NU C		1001		00.00	7 6	FEE	- 10	0 1	
1	Silehar	10.0						13		6		9	141	1	1	1
2	Hailakandi		273					2		2		2	CE		3	
3	Haflong				***	***		2		2					-	
4	Sylhet	1021	?			14		36		20		20	19.0	9	4	1
5	Karimganj							9		4		7			4	
6	Manlvibazar							15		5 9			- 10		1	
7 8	Habiganj Sunamganj	***	***					23 18		13	V	10		1	7	
			Total				200	118		61	- Charles	50		6	6	(
	TM 1 - 1	ASS	AM VAL	LEY.				00	LE PO							1
9	Dhubri	***						22		9		5		1	D.F	
10	Goalpera	***	***					6	2	6		6		1	3	
11	Gauripur	***			***			13	35	6	8	3	100		1 200	
12	Gauhati	****				***		48	4	32	3	28	1		1	1
13	Barpeta	- 211	***				18	33	12.0	19	100	30	22		2	1
14	Palasbari					***		8		4		3			8	
15	Tezpur	***			***		100.2	12	100	12	29	18		, 1	8	1
16	Mangaldai					07.00		2	20 00	2	125	3	-		3	
17	Nowgong	***					-	14	-	16	-	8	-	1	5	
18	Jorhat							-8-	-	7	-	10	-	-	8	
19	Sibsagar		***					4	1/2	3		13			5	
20	Golaghat	144						10	STATE OF THE PARTY	3	13	7			4	
21	Nazira					***		6	20-00-0	3		5	-		1	
22	Dibrugarh				***	0.773		35	225	23	94	22	1	. 2	2	
23	North Lakhim	par .				1000			00°E FE	4	1000	4	0		2	
24	Doom Dooms		A					5	100 12		tet .		1		2	
25	Tinsukia	-			***			.5			Let !	3	150		3	7
	The same		Total			0	144	231	100 0	149	314	168	-	10	9	2
	To	tal for th	e towns		***			349		210		218		25	5	2
	R	atio per n	nille for to	owns				1.76		1.17		1.10		1:	17	1
	To	tal for the	e province	,			- 0	14,525	11	,902	1	1,148		12,0	36	13,5
	Rat	ie per mil	le for the	provi	nce	***		1.79		1.63		1.38	-	1:	54	1.

Ratios have been calculated

T-is table includes municipalities and small towns, in which

districts (rural circles) and towns of Assam during each month of the year 1934.

June.	July.	August.	September. October.		November.	December.	Total deaths during the year.
	9	10	11	12	13	16	15
767 4,185 1,653 1,396 2,012 712 1,600 1,403	761 4,798 1,770 1,445 1,080 522 1,908 1,323	688 4,017 1,658 945 883 526 1,660 1,247	681 4,886 1,512 909 781 443 1,534 1,339	837 4,588 1,612 803 919 523 1,594 1,403	990 5,497 1,576 878 1,019 415 1,167 1,309	1,031 6,118 2,287 922 1,077 377 1,326 1,112	9,910 69,425 20,33 12,691 12,274 6,182 17,308 14,083
13,728	13,606	11,624	12,085	12,278	12,851	14,250	152,246
1.79	1.73	1.47	1.58	1.26	1.69	1.81	19:69

	June	1	Jul	y.		Augus	t.	Sept	ember.	Oc	tober.	100	No	rember.	600	D	ecember.	229	Total deaths during the year,
		20		1 11		10	100		11	1 6	12	19	654 185	13	551	175	14	PET	15
-	react	198	N PE	187	1	mi	THE		-	1,0	Et.	34.1	153	In	172	608	155	100	- Stemate
		9	100	14			16		8		20				12			18	152
		2		2	-		1		6		1000	3			2			4	31
		7	1 300	4	11		2		2						2			6	28
		25		19			30		25		38				39			27	318
		13		12			10		14		16				8			6	110
		5 7 4		6 11 9			19 5		6 11 12		13				10 12 10			6 11 6	151 101
		72	1	77	-		85		84		10		4		95	-		84	957
	To	TO .	(9)	70		10.5	1			1	OFF		1	1	T	18:	1		Bylliop -
		18		M	-				19		-	1			*				Karlespan
		12		17	1		15		17						23			7	164
		8		4			13		3		10	11			10				83
		11		9			11		7		1	-			2			13	84
		25	d	25	-		30		56		40				44			28	421
		51		35			33		31		19				24			23	359
		8		5			7		4		1				6			5	75
		19		21			27		19		24				22			15	21
		1					3		6		:				2			3	3:
		12		15	1		24		16		11				16			18	19
		10	1	14			15		18		1				13			10	13
		8	12	13	1		9		13						5			1	81
		5	10	16	-		17		13		1				12			9	120
	·	753	0	5	1		9		2		1 1	5			9	-		8	5
		33	12	37			43		25		3	1			43	19		23	37
		6	1 30	5	1		6					6			5	-		7	4
		22.7	1100									1						2	1
		4	1	3			4		8	13		4			3			5	4
1		213		221	-	_	266	-	238		20	-	-		239			177	2,49
		285	-	298	-	-	351		322	-	30	_	-	-	334	-		261	3,45
	-	1:49	-	1.51	-		1.77	-	1.68		1.5	_	-		1.74	-	-	1.32	17-7
1	14	1.013		3,904	-	1	1,975	-	12,407		12,58		-	1	3,185			14,511	155,70
110		1.79	-	1.72	-	-	1.48	-	1.59	-	1:	_	-		1.68	-		1.80	

with reference to number of days in each month.

registration of vital statistics is compulsory.

Ca S3 G K D N S L L S S I S S I S S I S S I S S I S S I S	.—Hural cir-	. ([alo.	exceeding	F	emale.				nonths			exceeding months		-	911			
Ca S3 G K D N S L L S S I S S I S S I S S I S S I S S I S		. (1.0		O	emale.		- 1	- 1										-
S ₃ G ₆ K D N S ₁ L T T S ₃ S ₄ S ₅ I S ₅	SULD SULD		week		o week.	week.			170			10,1	80 71 75 75 75 75 75 75 75 75 75 75 75 75 75	0 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The Party of the P	100 100 100 100 100	Salah S	
S ₃ G ₆ K D N S ₁ L T T S ₃ S ₄ S ₅ I S ₅	26,16	Under one week	Over one	Total.	Under one	Orer one	Total.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.
S ₃ G ₆ K D N S ₁ L T T S ₃ S ₄ S ₅ I S ₅	2	3	4	5	6	7	8	9	10	11	12	13	14	13	16	17	18	19	20
S ₃ G ₆ K D N S ₁ L T T S ₃ S ₄ S ₅ I S ₅	achar	347	413	760	282	315	597	1,357	359	296	655	255	269	524	1,374	1,162	2,536	595	59
G K D N S L T T S S I S I S I S I S I S I S I S I S	ylhet	2,469	3,101	5,570	1,885	2,501	4,386	9,956	2,639	2,172	4,811	1,007	872	1,879	9,216	7,430	16,646	3,938	3,50
K D N S S S S S S S S S	loalpara	999	561	1,560	590	545	177	2,695	1,034	909	1,993	372	3°0	692	3,016	2,364	5,380	1,483	1,45
D N S S S S S S S S S S S S S S S S S S	Camrup	222	605	827	209	568	777	1,694	622	592	1,214	316	330	646	1,765	1,699	3,464	1,275	1,4
S	Darrang	178	388	566	143	420	563	1,129	657	583	1,240	342	314	656	1,565	1,460	3,025	838	86
L T S S S S S S S S S S S S S S S S S S	Nowgong	139	232	371	82	213	295	666	345	350	735	191	200	391	947	845	1,792	306	44
T S S S S S S S S S S S S S S S S S S S	Sibeagar	386	474	860	277	411	688	1,548	718	584	1,30:	403	338	747	1,987	1,610	3,597	1,697	1,6
11 S S S S S S S S S S S S S S S S S S	akhimpur	290	430	720	222	314	536	1,256	513	439	952	372	349	714	1,605	1,317	2,922	1,372	1,2
1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	Total for rural circles.	5,030	6,204	11,234	3,690	5,287	8,977	20,211	6,977	5,925	12,902	3,264	2,985	6,24 ·	21,475	17,857	39,862	11,704	11,
S I S I S I S	Ratio per mille									***		***		***	175:33	156-88	166-41		
8 1 1 1 1 1 1 1 1	B.—TOWNS. Surma Valley.	192											or		18				1
H	Silchar	8	1	9	4	1	5	14	4	2	6	2	4	6	15	11	26	7	
S	Hailakandi				2	2	4	4	2	2	4				2	6	8	1	
S 1	Haflong	***			3	1	4	4	1		1		1	1	1	5	6		-
I	Sylhet	23	8	31	9	9	18	40	16	14	30	11	8	19	58	40	98	21	
	Karimganj	2	6	8	2	8	5	13	4	6	10	4	4	8	16	15	31	7	
	Maulvibazar	2	3	5	3	9	12	17				1	1	2	6	13	19	2	
7 I	Habiganj	7	4	11	1	3	4	15	12	7	19	2	1	3	25	13	37	6	
	Sunamganj	3	3	6	2	3	5	11	3	3	6	1	3	4	10	11	21	14	
1	Assam Valley.	EX.			15		-						4 14		3 23	-	3.6		1
1 1	Dhubri	22	3	25	9	2	11	36	3	4	7	3	4	7	31	19	50	10	1
2 (Goalpara	884	3	7	1.5	2	2	9	4	2	6	2	1	3	13	5	18	7	
3 (Gauripur	8 6	2	8	0 3	2	5	13	2	7	9	3	-1	4	13	13	26	7	
4 1	Gauhati	3.5	:5	35		17	17	52	8	19	27	10	7	17	81	43	96	20	
5	Barpeta	1	19	20	.,.	17	17	37	10	12	22	4	14	18	34	43	77	32	
6	Palasbari		3	3		6	6	9	1	4	5		2	2	4	12	16	10	
7	Tezpur	10	1	11	10	5	15	2	12	3	15	3	2	5	26	20	46	5	
8	Mangaldai		1	1		1	1	2	1	1	2		4.34		2	2	4	4	1
9	Nowgong	10	3	13	5	5	10	23	6	13	19	5	4	9	24	27	51	8	1
	Jorhat	7	5	12	4	1	5	17	5	2	7	1	2	3	18	9	27	8	
	Sibengar	9 3	6	9	6	1 33	8	17	4	2	6		3	3	13	13	26	5	
35 8	Golaghat	100	4	4	475	6	6	10	3	1	4		1	1	7	8	15	5	
38	Nazira	3		4	2		2	6	4	3	7	2	1	3	10	6	16	5	
2	Dibrugarh	8	1 3 3	14	2	1 1 1 1 1	10	34	4	9	13	5	2	7	23	21	44	13	
8	North Lakhim- pur-		2	2		2	2	4	1	1	2	2	2	- 4	5	5	10	5	
211	Door D	1		1	000		1	2	1	1	2	1	1	1	7	1 0	3		
	Doom Dooma	-			1	***	1	-		-	229	62	60	131		3	10	3	-
	Tinsukia	100	-	6		100	100	491	111	22.00									
-	Tinsukia Total for town	122	123	245	69	107	176	421	111	118	-	-	-	-	128-22	363	781	205	2
1	Tinsukia		123	-		-		20,632	-				3,054	6,380	128-22	121-04	124-78	11,909	

	under ears.		under 15 ars.	15 and	under 20 rears.	20 and	under 30 ears.	30 and	under 46		under 50		under 60 ears.		nd up-	Total	(all a
	JetoT.	- Leave	A 10-4			- Carre		1		and a	yeals May		T in	1		lon.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Malo.	Female.
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
286	283	167	146	154	300	350	737	433	453	424	296	437	297	799	614	5,024	4,8
731	1,500	948	733	1,020	1,569	2,301	3,787	2,930	2,194	2,649	1,745	2,588	1,793	4,260	3,593	31,581	27,8
47	725	489	369	425	564	993	1,253	1,058	796	966	532	749	465	1,109	647	11,238	9,1
365	575	276	231	197	379	442	689	305	423	481	282	464	340	575	22	6,645	6,
413	374	284	223	256	447	463	795	607	661	502	449	557	367	629	523	6,114	6,
252	229	119	137	117	167	193	333	219	273	270	211	243	170	343	164	3,209	2,5
662 528	678 455	342	307	215	390	483	1,064	759	823 791	780	590	755	560 488	972 627	687 482	7,300	6,3
454	4,819	2,836	2,392	2,718	4,262	5,830	9,542	7,300	6,414	6,815	4,614	6,520	4,480	9,314	6,732	79,966	72,5
-	0,02			0	-	40.00					-			2000			
-																	
24	2,8100	- SOFTS	S STATE	62 7 55	DESTRICT OF	BEATAG	BILLIPA	1	1 130	,==	0.04	7	HANDY				
4	1	5	1	3	8	15	8	8	8	6	9	11	3	19	6	93	
1	2			1	2	2	1		2		2	3	1	3	2	13	
2					2	2		3	- m	2	2	3		4		17	
4	2	3	3	6	16	6	22	19	15	16	8	9-	7	31	24	166	1
1	3	2	1	1	3	9	8	10	4	3	2	5	2	7	7	61	
	1	2	1	1	2	3	5	11	8	2	2	4		1	1	32	
5		5	2	2	5 2	7	9	11	6 2	5	5	12	7 3	8	1 4	65	
					1	'	,	11		9		"	0	3	•	00	
		1			100	1				4			1	20		-	
2	3 4	1	3 2	5	5	15	3	20	4	14	3	1	2	9	7	108	
	1	1	2	2	5 2	5	3	3	1 2	7 2	2 2	5	3	12	3 9	41	
9	6	7	8	6	12	29	22	47	19	27	10	21	8	35	19	254	1
21	21	7	5	6	10	11	9	13	8	17	6	21	9	25	28	187	1
		5	2	1		2	4	2	1	6	2	3	2	2	4	35	
5	2	3	***	5	1	25	13	32	9	22	6	16	4	14	5	153	
		100,00	735	1	1	3	2	1	1	1	3			6	2	18	
3	1	3	2	4	5	11	11	15	7	24	8	7	1	8	11	105	
2	2		2	3	6 2	18	11 9	10	1	8	6 2	5	7	10	3	39	
3	7	5		4	1	8	14	8	12	10	3	4	1	7	6	61	
1	1		1	1	1	1		1	2	4	-	2	2	4	8	29	
7	5	5	12	4	9	40	31	43	17	39	13	20	8	28	17	222	1
1	3			3	2		3	1	1	4	2	_ 4	1	1	1	24	
	All I		***		-	3			2	4		2	1			11	
2		1	1	1	2	4	5	3	1	2		3	1	3	2	29	
77	65	60	50	63	104	233	202	270	135	233	99	175	78	247	174	1,981	1,
		2000	***												***	01.047	
,561	4,884	2,896	2,442	2,781	4,366	6,033	9,744	7,570	6,549	7,048	4,713	6,695	4,558	9,561	6,906	81,947	73,
4.02	17-54	4.62	5-17	3.74	6.06	17:46	25-57	15-72	15-32		9:23	12-36	8:19	72.40	52.08	19.57	19

IMPERIAL STATEMENT No. V .- Death's registered according

	Altero Dia		Total	- (Christians.			Hindus		M	nhammada	
No.	Di	stricts.		Male.	Female	Total.	Male.	Female.	Total	Male.	Female.	Total.
1	1 1	2		3	4	5	6	7	8	9	10	11
-	SURMA	VALLE	Y.									
1	Cachar			1,462	1,234	2,696	176,990	157,686	334,676	103,474	92,417	195,891
2	Sylhet	102		1,650	1,335	2,985	575,961	537,765	1,113,426	828,123	775,682	1,603,803
	1900 000.0	Total		3,112	2,569	5,681	753,651	695,451	1,448,102	931,597	868,009	1,799,69
	ASSAN	VALLE	Y.	P2 11	20 10		(80)	22	70 79	100	164	372
3	Goalpara		***	9,796	8,740	18,536	208,376	177,530	385,906	205,396	183,323	387,700
4	Kamrup	***		3,034	2,549	5,583	370,688	339,307	709,965	128,785	111,637	240,44
5	Darrang	***	***	8,453	7,263	15,716	246,546	209,110	455,656	37,529	29,974	67,500
6	Nowgong			2,615	2,428	5,043	172,064	153,052	325,716	95,597	82,165	177,765
7	Sibasgar			7,152	6,079	13,231	445,670	395,378	841,048	24,916	18,991	43,90
8	Lakhimpur			8,356	6,508	14,864	360,774	300,946	661,720	17,541	8,408	25,946
		Total		39,406	33,567	72,973	1,804,718	1,575,323	3,380,041	509,754	433,498	943,255
	Total for th		e	42,518	36,136	78,654	2,557,369	2,270,774	4,828,143	1,441,351	1,301,597	2,742,948

IMPERIAL STATEMENT No. V .- Deaths registered according

	1 1		. 1				1	Number of	deaths regi	stered-co	neld.		
	1 10 1			3	Buddhi	ste.	119	O	ther classes	1 2	B 311	Total.	1
No.	Distri	cta.		Male.	Female.		Total.	Male.	Female.	Total.	Male.	Formale.	Total.
1	2			30	31	2	32	33	34	35	36	37	38
1 2	SURMA V Cachar Sylhet	ALLEY.				8 1 8	100	214 163	174 158	388	5,147 31,994	4,974 28,177	10,122
001 001	Total			-		1		377	332	709	37,141	33,151	70,29
3 4	Goalpara Kamrap	***		10		3	13	1,989	1,692	3,591	11,433 7,121	9,271	20,70
5	Darrang Nowgong			6		11	17	1,300	1,144	2,344 1,024	6,285 3,314	6,240 3,058	12,52
7 8	Sibsagar Lakhimpur	-	-	43 22		64 20	107	1,042 621	959 604	2,001 1,225	9,067 7,586	8,633 6,979	17,700 14,563
	T	otal		85		99	184	5,988	5,457	11,445	44,806	40,603	85,40
	Total for	the Prov	ince	85		99	184	6,365	5,789	12,154	81,947	73,754	1,55,70

to the	Censu	s of 193	1.	17	2	7						Numb	er of dea	the regis	tered.		
Br	nddhis	ta.	0	ther class	08-		Total.		Ch	ristian	18-	1	Hindus.		Mu	hammad	ans.
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
42	19	61	2,770	2,717	5,487	284,738	254,073	538,811	14	18	32	3,045	3,057	6,102	1,874	1,725	3,599
28	12	40	2,183	1,903	4,086	1,407,645	1,316,697	2,724,342	10	19	29	12,541	11,261	23,802	19,280	16,739	36,019
70	31	101	4,953	4,620	9,573	1,692,383	1,570,770	3,263,153	24	37	61	15,586	14,318	29,901	21,154	18,464	39,618
300	276	592	46,409	43,606	90,015	470,273	412,475	882,748	124	127	251	4,302	3,636	7,138	5,008	8,903	8,911
569	921	790	10,269	9,687	19,956	513,345	463,401	976,746	30	21	51	5,326	4,755	10,081	1,162	989	2,151
805	381	1,186	23,770	20,986	44,756	317,103	267,714	584,817	264	249	513	4,296	4,239	8,585	519	547	1,066
27	4	33	27,680	26,347	54,037	298,585	263,996	562,581	16	30	46	2,039	1,885	3,924	72?	651	1,37
1,454	1,159	2,613	17,096	15,431	32,527	496,288	437,038	933,326	123	94	217	7,553	7,237	14,790	306	279	588
3,182	2,463	5,645	9,255	7,149	16,404	399,108	325,474	724,582	154	160	314	6,582	6,024	12,606	2)7	171	378
6,345	4,504	10,849	134,379	123,306	257,685	2,494,702	2,170,098	4,664,800	711	681	1,392	10,098	27,826	57,924	7,924	6,540	14,46
0.435	4 595	10.950	139,332	127,926	967.959	4 187 (8)	3.740.868	7,927,933	735	718	1,453	45,684	42,144	87,828	29,078	25,004	54,083

to class in the districts of Assam during the year 1934-concld.

					Ratio of	f deaths	per 1,000	of popu	lation.	501		***			Linds	Lan 2	
CI	hristians.	00		Hindus.		Mul	ammadar	18.	Bud	ldhists		Oth	er class	108.	pmel	Total.	
Male.	Fomale.	Total.	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
39	40	41	42	43	44	45	46	47	48	49	50	51	53	53	24	85	56
9-57	14.58	11.87	17-20	19:39	18-23	18-11	18-67	18-37				77-2	54-04		18 08	19-58	18-7
6-06	14-13	9-72	21.79	20-94	21.38	23-28	21.28	22 46				74'67	83-03	78.5€	22-73	21:40	22-0
771	14-40	10-74	20:71	20:59	20-65	22-71	21:27	22-01				76-12	71.86	74-06	21-95	21.10	21:
12:66	14-53	13-54	20.65	20-48	20-57	24:38	21:41	22.98	33-68	10-87	22 34	42'86	36 74	39-89	24:31	22:48	23
9.88	8-24	9-13	14:37	14:01	14:20	9-02	8-86	8-95				58.72	67-82	63-14	13-87	13-86	13:
31-23	34-28	32-64	1742	20-51	18-84	13:83	18-25	15.79	7-45	28 61	14.33	50 48	54.51	52:37	19-82	23-31	21
6.12	12:36	9.12	11-81	12-32	12:04	7-55	7.92	7-72	137-93	250400	151-51	19.25	18:64	18-95	11.10	11.28	11
17-20	15:46	16.40	16 95	18:30	17:59	12-28	14-69	13:32	29.57	55-22	40-95	60-95	62-14	61:52		19.75	18
18-43	24-59	21.12	18-24	20-01	19.05	11.80	20:34	14-57	691	8:09	7:44	67-09	84:49	74-67	19.01	21:44	20
18:04	20-29	19-08	16-68	17-66	17-14	15 54	15-09	15:33	13.40	21.98	16-96	44.56	44-26	44'41	13-95	18-71	18-
17:29	19-87	18-47	17:86	18-55	18-19	20-17	19-21	19-71	13.25	21-83	16.80	45.68	45-25	45-47	19.57	19:72	19

-														
	1	2	Chief 3	3			4		5	6	7	8	9	10
	Decreed the			the		Births.		401		-	-	100 m		Mail
N	o. Districts a	an I towns		Population according to Consus of 1931.	Division in the last of the la		Mary		da	204		Malek	Dysontery and Diarrhosa.	y diseases.
	2 15			Population Census of	Male.	Female.	Total.	Birth-rate.	Cholors.	Small-pox.	Plague.	Fever.	Dysontery	Respiratory diseases
REAL PROPERTY.	DISTRICTS		DING	DATE:	2 0		Emany.	F0.40	299,029 [61/Clif]	, mar.	- SEC.	1002	0 10	1000
	SURMA 1				A ner	0.001	10.100	04.00					-	-
	1 Cachar 2 Sylhet	***	***	522,616	9,365	8,801	18,166	34-76	19	***	***	5,903	578	844
	2 Sylhet	***	***	2,679,999	48,574	44,852	93,426	34-86	1,189	56		35,008	2,469	1,362
119,8	Total			3,902,615	57,959	53,653	111,592	34.84	1,208	5		40,211	3,047	2,206
BLE	Assam	VALLEY.		Sec. al	4 10								-	100
	3 Goalpara	2200		861,306	15,445	14,298	29,743	34:53	418	6		19,262	120	91
	4 Kamrup		***	937,718	9,803	9,392	19,195	20-47	88	72		10,737	300	167
	5 Darrang	Contract of	1000	572,853	9,863	9,213	19,076	33-30	28	41		8,071	740	687
	6 Nowgong	***		552,168	5,288	4,753	10,041	18-18	22	7		5,038	293	165
-	7 Sibeagar	***	***	910,151	13,552	12,486	26,038	28.61	87	10		10,179	1,981	1,216
	8 Lakhimpur		***	696,668	10,590	10,223	20,812	29.87	53	8		7,938	1,411	1,418
-	Total	***		4,530,864	64,541	60,364	124,905	27-57	676	144		60,525	4,845	3,744
250,52	Total of dist	ricts excl	luding	7,733,479	122,480	114,017	236,497	30-58	1,884	200		100,736	7,892	5,950
-	towns.	ews.												
		VNS. VALLEY			138	lenos	4994-	N STORY	diam'r.	in more	RAN.	daire	Mina	and which
				13,069	132	118	250	19-13				28	10	28
	1 Silchar 2 Hailakandi	***	***	2,002	45	29	74	36-96	To all			9	3	4
	3 Haflong		***	1,124	19	33	52	46:26				6	1	10
	4 Sylhet			21,435	321	273	594	27:71	1			69	24	31
	5 Karimganj		***	5,691	100	101	201	35-32				41	10	6
	Maulvi Bazar		Ter-	4,314	67	63.	130	30-13	6			13	8	3
	7 Habiganj		***	7,577	142	121	263	34.71	1			50	9	11
88	8 Sunamganj			5,326	86	87	173	3248	2	***		34	8	116
	Total			60,538	912	825	1,737	28:69	10			250	73	93
-		7 V 1 V 1					-	-				1	1	
60-23													15:05	
se is					-			17.00	27-02	1000		1002	0.92	177.00
								2012						
11-11							1991		10 01					
							24.00			10.01				(C72:0)
					1 100		1692	09-11		10:021				SECTION .
19-11						10 tz	10:31	10.62	17:24	0070	1001	6001	10.00	1294
\$900°								11-12	1840	40-02	DESTE	inat	70-02	1215
									-	-			-	

							1											_
95		0 1	11		7	12	13		-	-			14		1		-	15
	In	jaries.									Ratio of	f death	s per 1,0	000 of po	pulation			
Suic	ide.	nts.		nale.								hœa.	13.			From a	ll causes	
		Wounds and accidents.		Snakes and wild animals.		. 808						Dysentery and Diarrhosa	Respiratory discusor.		.80		rious	No.
9		and .		m pu		All other causes.			OK.			ry an	tory d		All other causes.	year.	Mean of previous five years.	
Malo.	Female.	onno	Rabies.	akes	Total.	l othe	Total.	Cholera.	Small-pox.	Plague.	Fever.	reente	spirat	Injuries.	1 othe	For the year.	ve yes	
Ms	Fe	¥	B.	800	H _o H	N N	H	5	Son	F	94	U,	Be Be	H	4	OH.	N. B.	
00	1							100						1.8	VALUE N	CWCV2 Assa		
tr	3	122	4	12	149	3,117	9,910	-04	-		9-95	1:11	1.61	-28	5-96	18-96	21-28	1
53	39	853	12	90	1,047	18,294	59,425	-44	.02		13-06	-92	-51	-39	6.83	23-17	21-61	2
61	42	975	16	102	1,196	21,411	69,335	-38	-02		12-55	-95	-69	-37	6-69	21.65	21.56	
	-		22		-	-		1.54	141	183	00.00		NE.		-	-pinning	11 12	
30	25	57 86	17	46	200	1,127	20,: 73	149	-01	100	22:36	-14	11	·19	1-22	23.65	22:44	3 4
15	10	76	7	36	144	2,563	12,274	-05	-07		14-09	1.29	1.19	-25	4-47	21.42	19-007	5
5	5	39	6	14	69	588	6,182	*04	:01	-05]	9:12	-53	-29	-12	1.06	11:19	13:31	6
29	18	112	19	25	201	3,634	17,308	-09	-01	***	11.18	2 03	2.04	-22	3.99	19-02	16-64	7 8
144	114	488	58	185	983	11,994	82,911	-15	.03		13-36	1.07	-83	-22	2-65	18:30	17:13	
205	156	1,457	74	287	2,179	33,405	152,246	-94	-03		1376	1:02	-77	-28	4.39	19-69	18-96	
											1	1 0	1		2000	Total or		
100	700		102					10	110	100	1 10		T.III			dell'		
Ph		7	**		7	79	152	311			2.14	76	2-14	-53	6:04	11:63	16.98	2
***		1	***		1	11	31 28				5-34	1.50	1·99 8·89	-49	9-78	24-90	8-89	3
dol 3	2	8	1	10.11	14	179	318	-05			3-22	1.12	1:45	-65	8:35	14:84	14-01	4
es iii şi	520	7	140	1	8		110	***	***	***	7:21	1.76	1.05	1.41	7.91	19:33	15-99	5
		8	1		9	36	66 151	1:39			3.01	1.85	1.45	1.19	9:37	15:29	17:42	- 7
1		5			6	51	101	-38			6-38	1.50	-	1.13	9.58	18-97	19:34	8
4	2	36	2	1	45	486	957	17	o les		4.13	1.21	1.54	-74	8-03	15-81	14'44	
Jan So.									of the St									
	180																	
444														-14				
-11														-112				H
+1+										***							Itedan	D
100				1 1														
***									***									
- 494																	and as	
100											0							
47	02			8			I			***	1	988						
***	53						- 974					***		-11				
414	82			5			***		1	-	2		13	***			noothi	
-																		

-			-		-	-							-	-
1		2	-	3			4		5	6	7	8	9	10
				d d	10 to 00	Births.							Injudes	
No-	Distric	ts and to	owns.	Population according to Census of 1931.	Msle.	Fomalo.	Total.	Rirth-rate.	Cholera.	Small-pox.	Plague.	Fover.	Dysentery and diarrhora.	Respiratory diseases.
9		S-cond VALLE		9,425	168	153	321	34-02				25	21	26
10	Goalpara			0.115	99	89	188	29-31	2	2		42	4	17
11	Gauripur			E 100	72	88	160	28.61				43	6	1
18	Gauhati			01 707	398	351	739	33.90	2		***	98	41	73
13	Barpeta			10 898	453	423	876	63.28	4	4		194	34	10 28
14	Palasbari			0.000	66	88	154	44:50	2			35	7	7
15	Tespar			10,268	173	156	329	32.04				25	23	51
16	Mangaldai	in		1,696	26	21	47	27.71	1			14	65. 40	2
17	Nowgong	100		10,413	189	185	367	35.24		·		31	17	46
18	Jorhat			8,334	154	110	264	31.68	- a			29	13	10
19	Sibsagar			6,669	106	94	200	29:99		I		65	2	11
20	Golaghat			4,688	74	68	142	30-29				13	9	17
21	Nazira	***	***	3,484	46	51	97	27-84				35	-1	
22	Dibrugarh	***		18,734	255	202	457	24-39				74	87	92
23 24 25	North Lakhi Doom Dooms Tinsukia		::	2,120 1,900 5,160	26 11 49	32 10 53	58 21 102	27-35 11-05 19-76				13 10 27	2 1 8	7
	Total			133,936	2,348	2,174	4,522	33.76	10	6		793	230	397
10	Total	for the	towns	194,474	3,260	2,999	6,259	32-18	20	6		1,043	303	490
84	Total for	the Pro	ovince	7927,953	125,740	117,016	242,756	30.63	1,904	206		101,779	8,195	6,440

This table includes municipalities and small towns in which

Supplementary (optional) Statement

		ing	,		1				1				6	
	Towns.	10	Mal	aria.	Enterio	fever.	Mea	sies.	Relapsin	g fever.	Kala	stop,	Other	fovers.
			Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio
Silchar			20		3						1		4	
Sylhet			3		7						1		58	
Habiganj			37				2						11	
Karimganj			19		1						3		18	
Gauhati	***		17		4		1		1		9		67	
Barpeta			63								1		130	
Dhubri			13		4						3		5	
Goalpara			40										2	
Tezpur			15		2						6		2	
Nowgong			21		5						5			
Jorhat			4		1				1		3		20	***
Dibrugarh			6		12					***			56	***
Shillong			13		3		1				2		28	***

in the districts and towns of the province of Assam during the year 1934-concluded.

		Chi bilani	11		7	12	13				1-4-4	Summer !	14					15
		Injuri	ns.						42		Ratio	of deaths	per 1,000	of popu	lation.			
Suid	ide.	ofts.		male.					1	and the same	1 3	hora.	4			From all	causes.	
Male.	Female.	Wounds and accidents.	Rabies.	Snakes and wild animals.	Total.	All other causes.	Total.	Cholera.	Small-pox.	Plague.	Fever.	Dysentery and diarrhora	Respiratory diseases	Injuries.	All other causes.	For the year.	Mean of previous five years.	Number.
	11		01	-		8				0	1							
1		9	***		10	88	164	***	***	***	2-65	2:23	2.76	1:06	8-69	17:38	17:38	9
***		1			1	15	83	-31	-31		6.22	-62	2.65	.16	2-34	12:94	14:34	10
***			***	***	***	34	84	***			7:69	1.07	18	***	6-08	15.02	18:41	11
		15		***	15	192	421	-09		***	4:49	1.68	3.35	-69	8-81	19:33	16-33	12
1		14		***	15	80	329	-29	-23		14:08	2.47	2.03	1.09	5-81	26.06	27-43	13
***	. 1				1	20	72	*58			10:13	2.03	2 (3	-29	5-79	20-84	18.23	14
		12		1	13	107	219				2-43	2-21	4-97	1.27	10.42	21:33	23-47	15
***		2	1		3	9	32	***			8-25	2 35	1.18	1.77	5:31	18:87	18-87	16
	1	4		1	6	90	199		***		2.98	1.63	4.42	.57	8 64	18-24	18-89	17
1		6	***	-	7	75	134	***			2.48	1.36	1.20	*84	8 99	16:03	15:34	18
			500			7	85	***			9-74	.30	1.65	***	1.02	12:75	12-87	19
		3			3	58	120			***	7-04	1.9:	3-62	-64	12:37	25-59	16 64	20
		1			1	14	53	***			10.04	.29	-57	-28	4-03	15:21	14.92	21
		16		-	13	151	370		***	***	3.95	1.98	4:91	.85	8.05	19-75	18:58	25
				100	2	26 4 5	49 15 49				6·13 5·23 5·23	194 155	3-32	-39	13-23 2:11 -97	22:64 7:89 9:50	21:23 14:74 8:53	2:
3	2	85	1	2	93	969	2,498	-07	*04		5:91	1.71	2:96	-69	7.23	18-65	17:14	1
7	4	121	3	3	138	1,455	3,455	-10	.03	1	5:36	1:56	2.52	-71	7.48	17:77	16-64	1
212	160	1,578	77	290	2.117	34,86)	155,701	*24	-03		12:54	1.05	-81	-23	4.40	19-64	18:90	1

registration of vital statistics is compulsory.

VI(a) for the year 1934.

3	7		8	1		98	10	1	1	12	Deat	hs under one	year.	
Dye	entery.	Diar	rhoa.	Pneur	monia.	Ph	thisis.	Other red	spiratory ases.	Deaths from			38	Infant mortality rate.
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	child- birth.	Male.	Female.	Total.	F
5	1	5		11		6		11		7	15	and n	26	104:00
17		7		10		3	1001	18		12	58	40	98	164-98
6		3		6		4		1		4	25	12	57	140-68
7		3		4		1	****	1		5	16	15	31	154-23
26		15		37		22		14		10	53	43	96	129.90
23		11		21		5		3		5	34	43	77	87-8
17		4		10		6		10		2	31	19	50	155-7
4				13		4					13	5	18	95-7-
19		4		19		14		18	W	6	26	20	46	139-8
14		3		38	·	4	4	4		6	24	27	51	138-9
6		7		5		5				4	18	9	27	102-2
29		8		35		36		21		12	23	21	44	96-2
11		5		54		15		23		2	28	14	42	60-69

registration of vital statistics is compulsory.

				Circles of trati	Regis- on.	Villag	res.	94	1 4		an	
Nambor.	Distri	icta	S diseased place of	Number in each district.	Number from which deaths from cholera were report- ed.	Number in each district.	Number from which deaths from cholora were report- ed.	January.	Fobruary.	March.	April.	May.
1	2			3	4	5	6	7	8	9	10	11
1 2 3 4 5 6 7 8	SURMA V Cachar Sylhet Total Assam V Goslpara Kamrup Darrang Nowgong Sibaagar Lakhimpur	ALLEY.		13 40 53 18 16 14 12 17	4 36 47 13 13 6 5 6	1,007 11,717 13,424 3,188 2,739 1,978 2,323 2,984 2,498	12 377 389 248 41 33 6	8 604 502 2 1	162 162 3 4	115 115 2 11 4 4 1	10 4 	45 45 2 10 2 1 5
Will have	Total	for the Pr	ovince	94	84	15,009	725	206	11 173	137	75	66

IMPERIAL STATEMENT No. VIII .- Deaths registered from

85 1	ast the				-			CIAI	MENT	1.0.	, 111		aens	regis	terea	/ TOM	
					1	Circ	cles of tration.	Villa	ges.				W 100	and a	- Total	16164	9
		Distr	icts.			Number in each district.	Number from which double from small-pox were reported.	Number in each district.	Number from which deaths from small-pox were reported.				EEE	966	100	3.6	3
Number.	2000	in relate to	March 1	164		Number	Number Joaths were re	Number	Number deaths were re	January.	February.	March.	April.	May.	June.	July.	+ 180 +
1	SeleT.	2	all M			3	4	5	6	7	8	9	10	11	12	13	-
	le l	SURMA	VALLEY				п	1	0	-	it.			8	1		
1	Cachar				***	13		1,607	1		***			T-11			1
2	Sylhot	TI	BE ***			40	14	11,717	23	2	6	7	14	6	5	7	
	e l	Total	8E			53	14	13,3?4	24	2	6	7	14	6	5	7	10
		Assam '	VALLEY.								12			100		329	2
3	Goalpar	h				18	6	3,188	13	***	***		2	***	4	***	
4	Kamruj				***	16	11	2,738	10	3	2	12	12	***	5	8	1
5	Darrang		***		***	14	8	1,978	29	6	2		2	5	5	2	ı
6	Nowgon	g		9	***	12	4	2,323	4						1	1	1
7	1			7	***	17	5	2,284	5	2	4	-	***	2	***		I
8	Lakhim	pur			-	17	1	2,498	2			-	-	1	1	4	
		Total		51		94	35	15,009	63	11	8	12	16	8	16	15	100
	-	Total fo	r the Pr	ovince		147	49	28,333	87	13	14	19	30	14	21	22	+

					ang.	17	No esti-	Total.		Ratio 1,000	of deat	hs per ation.	revious	
Ушю.	July.	Angust.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of previous five years.	Number.
12	13	14	15	16	17	18	19	20	21	2?	23	24	25	26
E I	20 - 3		120	Bld I	ing	Tro.I						1	State 3	
	- 0.					11	11	8	19	-04	-03	-03	-61	1
37	17	9	6	4	14	244	621	578	J,1 9	-44	-64	*44	1.20	2
37	17	9	6	4	15	?55	632	586	1,218	*37	-37	-37	1.11	
2			1	16	108	290	206	214	420	-44	*52	.48	-80	3
	100	1	8		10	31	58	33	96	-11	*08	-09	1.13	4
1		2	1	8	1	1	17	11	28	-05	-04	-02	-51	5
	1					16	13	9	22	*04	*04	-04	.18	6
4	. 18	25	24		1	2	45	42	67	-09	-10	.00	-17	7
6	5	3	5	5	-	1	17	16	33	*04	-04	-05	-07	8
19	28	30	38	19	120	341	356	330	686	14	15	-15	-52	
56	45	39	44	33	134	596	983	916	1,904	-24	-24	*24	-76	

Small-pox in the districts of Assam during each month of the year 1934.

							To	tal.	Y		Numb	er of deaths g children.	Rati 1,000	o of deat of popu	hs per lation.	revions	
August.	September.	October.	Norember.	December.	W.L.	dans.	Sever apprehiment grown to	Fomale,	Missis in many the	Total.	Under 1 year.	One to 10 years.	Male,	Female.	Total.	Mean ratio per 1,000 of previous five years.	See Jan
14	15	16	17	18	1	9	0	20	100	21	23	23	24	25	26	27	1 2
														(VELLE	y Aug.		100
	-				1			25						-02	-02	-11	-
5	3	1				31		25		56			-03	-02	-02	.08	
5	3	1			Coll	31	10	25	7111	56			-03	-02	-62	108	
				2		4		4		. 8	2	4	701	*01	.01	*25	
12			5	17	II.	43		33		76	12	10	*08	-07	-08	.18	
4	6	1		8	-	19	-	22	2017	41			-06	*08	-07	-06	
1	-	1	1	2	at a	3		4	200	7	1		•01	-02	*01	*002	
	***	1	***	1	100	7	-	3	eas	10			-01	*01	-01	*04	
	822		2		00	1	4	7	11,2	8		d.	.003	-03	-01	12	9
17	6	3	8	30	100	77	-	73	(dat	150	15	14	-03	103	.43	•13	
22	9	4	8	30	-	108	-	98		206	15	14	-03	-03	-03	.11	

IMPERIAL STATEMENT No. IX .- Deaths registered from Fevers

1	100					Circ	eles of tration.	Villa	ges.					
Number.	A Little Des (1935 mg lis	Distric	ota.	Marrie Carlo		Number in each district.	Number from which deaths from fevers were reported.	Number in each dis- trict.	Number from which deaths from fevers were reported.	January.	February.	March,	April.	May.
1	44 9	2	- 1		10.3	3	4	5	6	7	8	9	10	11
100	E 10	SURMA V	ALLEY.	pt.			Ph.	9	9	21 1	4	4	11	RI .
1	Cachar					13	13	1,697	705	548	354	584	401	533
2	Sylhet	60° 'm.		e of pa		40	33	11,717	9,993	3,629	3,00?	2,323	2,528	2,734
	GE 1 22					-	-	-	-				-	- 50
	to the	Total	-			53	52	13,324	10,698	4,177	3,446	2,657	2,929	3,269
	1	SSAM VA	LLEY.			-								
3	Goalpara		10			18	17	3,183	8,001	1,744	1,454	1,381	1,855	1,694
4	Kamrup	***	111			16	15	2,738	709	792	607	700	950	1,593
5	Darrang	***				14	13	1,978	1,302	548	422	525	6.7	951
6	Nowgong		19	.,	***	12	11	2,323	82	397	322	471	529	550
7	Sibs gar					17	16	2,284	751	702	635	686	601	1,119
8	Lakhimpur					17	17	2,498	1,690	463	394	434	382	787
	45	Total	10			94	89	15,009	12,535	4,616	3,834	4,239	5,084	6,694
	L HELL	Total fo	or the Pr	ovince		147	141	28,333	23,233	8,823	7,230	6,956	8,013	9,963

IMPERIAL STATEMENT No. X .- Deaths registered from

	-	tog a			Circles of		Vill	nges.					
Namber.	the power with the property and	Distr	icts.		Number in each dis-	Number from which deaths from dysentery and distributa were reported.	Number in each dis-	Number from which deaths from dysentery and diarrhoss were reported.	January.	Fobraary.	March.	April.	Мау-
-1	T T	2	10	10	3	64	<u> </u>	6	7	8	9 0	10	11
	S	UBMA V	ALLEY.									1	
1	Cachar		111.		13	12	1,697	160	58	48	38	55	52
2	Sylhet	***	504	20/100	40	39	11,717	1,854	308	239	158	212	164
	120	1	otal	10	53	51	13,324	2.014	360	287	196	267	216
	A	BEAN V	ALLEY.						-				
3	Goalpars	10			18	13	3,188	94	11	4	- 4	12	14
4	Kamrup		704		16	15	2,738	58	25	21	41	15	40
5	Darrang		411		14	13	1,978	179	39	12	57	60	54
6	Nowgons			10+	12	11	2,323	27	10	15	17	27	40
7	Sibsagar	100-		10*	17	16	2,284	254	96	171	112	183	148
8	Lakhimp	ur			17	16	2,498	142	76	61	107	118	148
	at .	l'otal	0.7	94	94	84	15,009	754	257	284	338	415	441
***	II.	otal for	the Prov	ince	147	135	28,533	2,768	623	571	534	682	660

in the districts of Assam during each month of the year 1934.

					-	YUUse	1-000	Total.	polesta.	Ratio 1,000	of death of popul	s per ation.	of pro-	
June.	July.	Angust.	September.	October.	November.	December.	Male.	Fomale.	Total.	Male.	Fornale.	Total.	Mean ratio per 1,000 of vious five years.	Number.
12	13	14	15	16	17	18	19	20	21	2?	23	21	25	26
465	470	368	349	417	462	543	2,723	2,523	5,246	9-56	9-93	9.74	10 96	,
2,793	3,317	2,753	3,195	2,652	2,995	3,174	19,051	16,164	35,215	13:53	12-27	12-93	11.66	2
3,258	3,787	3,121	3,544	3,099	3,457	3,717	21,774	18,687	40,461	12:87	11:90	12 40	11:55	
1,604	1,726	1,585	1,458	1,516	1,414	1,938	10,718	8,654	19,573	22 79	20-98	21-95	19:89	3
1,276	1,997	801	779	673	743	754	5,789	5,283	11,064	11.26	11:40	11:33	9.81	4
1,531	748	469	440	521	618	651	4,077	4,033	8,110	12 86	15-06	13.87	12:58	5
586	435	421	355	402	316	285	2,691	2,448	5,069	8.78	9 27	9.01	10.70	6
1,053	1,260	967	879	938	628	784	5,346	4,995	10,341	10.77	11:43	11.07	9.41	7
820	723	662	783	729	644	541	3,871	3,401	7,363	970	10:72	10-16	9-30	8
6,869	6,189	4,905	4,703	4,779	4,363	4,953	32,415	28,903	61,318	12-99	13:32	13-14,	12-01	
10,127	9,976	8,026	8,247	7,878	7,820	8,670	54,189	47,590	1,01,779	12:94	12:72	12-34	11-8?	

Dysentery and Diarrhæa in the districts of 4ssam during each month of the year 1934.

						iny		Total.	10	Rati- 1,000	o of dest of popul	hs per ation.	f previous	
Juno.	July.	August.	September.	October.	November.	December.	Male.	Founds.	Total.	Male.	Fomalo.	Total.	Mean ratio per 1,000 of previous five years.	Number.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	OL 1	0	3 1	-	0	13			18			1		
55	42	42	37	43	65	57	292	300	592	1.03	1.18	1.09	2 00	
158	198	168	171	190	314	248	1,396	1,132	2,538	-99	-86	-93	1.06	
213	240	210	208	233	379	305	1,688	1,432	3,120	1.00	-91	-96	1.31	
			-	40.	4.1	1000			*			1400		
24	10	18	10	11	27	G	98	58	151	-20	14	-17	-26	
58	37	23	31	26	31	34	204	178	382	-40	-38	-39	-56	
90	79	98	49	79	71	79	406	361	767	1.28	1.34	1:31	1:54	
34	34	37	24	32	24	16	162	148	310	-54	*56	.55	*49	
175	219	212	214	192	133	151	1,042	964	2,006	2.09	2-20	2:15	201	
156	135	133	132	147	150	96	800	639	1,459	2:004	2.02	2 01	1.98	1
537	514	521	460	487	406	383	2,707	2,368	5,075	1.09	1-00	1.09	1.13	
750	75 4	731	668	720	815	687	4,395	3,800	8,195	1.05	1.02	103	1:16	

	100				Circles o	f Regi	stra-	Vill	ages.		-			
Nawher.	More than being your	Dis	tricts.		Number in each dis- trict.	Number from which deaths from respira-	tory diseases were re- ported.	Number in each dis- trict.	Number from which deaths from respira- tory diseases were re- ported.	January.	Pebruary.	March.	April.	May.
1	100	111	2	12	3	020	4	5	6	7	8	9	10	11
		SURMA	VALLEY.	This										
1	Cachar				13	3.5	12	1,607	125	99	92	64	75	72
2	Sylhet		***		40	ht,ar	35	11,717	524	89	152	160	152	63
	celr .	Total	00.11	TORI.	53	10,00	47	13,324	649	188	244	224	227	137
	eser .	Assam '	VALLEY.	17.0E	12011	3,1	113	or user	JILT	na i	5/1.7		Dec 1	-
3	Goalpar		- 11	10.15***	18	12.6	14	3,188	63	14	11	15	7	9
4	Kamruj	2	0000	40 ES	16	10,00	15	2,738	30	31	20	27	10	27
5	Darrang	g			14	10,50	12	1,978	109	89	59	79	57	15
6	Newgon	g	10	17 00	12	10,5	9	2,323	22	21	12	24	30	11
7	Sibsaga	2	12.00	m	17	4.31	15	2,284	161	86	114	133	121	115
8	Lakhim	pur			17		15	2,498	74	103	95	156	173	148
1		Fotal			94		80	15,000	399	344	311	434	398	825
- 1	7	otal for	the Prov	ince	147	-110	127	28,333	1,048	532	555	658	625	462

IMPERIAL STATEMENT No. XII .- Deaths registered from plague

	1				es of ration.	Vil	lages.					
Number	Di	etricts.		Number in each district.	Number from which deaths from plague were reported.	Number in each district.	Number from which deaths from plague were reported.	Jannary.	February.	March.	April.	May.
1		2		3	4	5	6	7	8	9	10	11
	SURMA	VALLET		100	200		1	180	135	9.	12	14
1	Cachar	***	***	13	J 500	1,607	142				-	
2	Sylhet	10		40		11,717	900					-
	Total			53		13,324						-
	ABBAM	VALLET		102 0								-
8	Goalpara			19		3,188			***			
4	Kamrup	-		16		2,738						
5	Darrang			14		1,978						
6	Nowgong	-	***	12		2,323						
7	Sibsagar	1944	100 %	17		2,284						
8	Lakhimpar	***		17		2,498			***		***	
-	Total	121	105	94	-	15,009	22				650-	101
1	Total fo	the Pro	rince	147		28,333						

Respiratory diseases in the districts of Assam during each month of the year 1934.

			name of	in pulse	Na (11)	oltmbi	2170	Total.		Ratio 1,000	of death	hs per lation.	f previous	
June.	July.	August.	Soptember.	October.	November-	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of provious five years.	Numb or.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
55 113	74 94	58 106	46 184	73 92	98 119	85 85	530 883	356 525	886 1,413	1.86	1:40	1.64	1.55	1 2
168	168	166	230	165	212	170	1,418	881	2,299	*84	'56	.70	-65	
		100	ret i					-	-	100.0		-	House	disti
9	11 20	14 25	13	14	8	10	86	49	135	•18	-12	.15	-14	8
49	35	69	54	79	69	66	166 421	109 319	275 740	1:32	1-19	1.26	-91	5
13	11	18	16	17	16	22	111	100	211	37	-38	38	-35	6
87	117	134	98	90	78	83	701	353	1,256	1:41	1.27	1.35	1.19	7
132	115	125	108	120	126	123	919	605	1,594	2.30	1.86	2.10	1'77	8
318	329	385	323	333	316	325	2,404	1,737	4,141	-96	.80	-89	.76	Confi
486	497	551	553	498	528	495	3,822	2,618	6,440	.91	-70	-81	-72	Outl

in the districts of Assam during each month of the year 1934.

		223	-d	er .	let .	ez		Total.		Ratio 1,000	of deat	hs per lation.	previous	Non-
June.	July.	August.	Soptember.	October.	Norember.	December.	Malo.	Fomale.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of pr five years.	Number.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
7					1	E 52						leto's		
							***							1
						***				***				2
								***	٠					
										.,,				3
***		***							***	***				4
			***	***					***				***	5
***			***	***	***		***							6
			***		***	***		***	***	***	***			7
										***				8
				***	***		***	***		***			***	

APPENDIX II.

PROVINCIAL.

Statement showing details of registration in compulsory areas.

on the star			to the Census	S per 1,000 the ages of	red during	ille.	nille.	deaths r	er of egistered ig the ar.	Death-	rate per	prosecutions under Act of 1873.	Number of convictions.
Compulsory re	gistratio	n area.	Population according to of 1881.	h at 25 between	births registered	Estimated birth-rate per mille.	Registored birth-rate per mille.	eaths in hos-	deaths in hos-	deaths in hos-	deaths in hos-		
		NAT .	Population of 1931.	Estimated birt married women 15 and 40.	Number of the year.	Estimated 1	Registered	Including deaths pitals.	Excluding pitals.	Including of	Excluding pitals.	Number of IV (B.C.) o	Number of
1			2	3	4	5	6	7	8	9	10	11	12
Silchar			13,069		250		19:13	152	106	11.63	8:11	7	01
Hailakandi		***	2,003		74		36.96	31	20	15.48	9:99	1	***
Haflong	***	***	1,124	12	52		46.26	28	18	24 90	16 01	15	
Sylhet	***		21,435	201	594		27.71	318	273	14.84	12 74	20	1
Karimganj			5,691		201	100	35-32	110	86	19 33	15.11	18	18
Maulvi Bazar	***		4,314		130		30 13	66	55	15-29	12 75	19	14
Habiganj			7,577		263	100	34-71	151	127	19 93	16.76	20	18
Sunamganj			5,336	3	173	100	32-48	101	82	18-97	15.40	5	1
Dhubri			9,435	-	321		34:02	164	118	17:38	12:51	54	29
Goalpara		***	6,415	ole.	188	9	29:31	83	61	12-94	9.51	4	3
Gauripur	***	***	5,592	lalla	160	ilab	28.61	84	84	15.02	1502		
Gauhati	***	***	21.797	ot available.	739	Not available.	33.90	421	329	19-33	15.09	47	47
Barpeta	-	***	13,777	No	876	No.	63-58	359	341	26.06	24 76	21	21
Palasbari	***	***	3,454		154		44.20	72	72	20 84	2) 85	18	18
Tezpur		145	10,268	The state of	329	Carr	32-04	219	155	21.33	15:09	:3	19
Mangaldai		***	1,696		47	1	97 71	32	15	18-87	8.84	10	9
Nowgong	-greate	largery by	10,413		367		35-24	199	134	18. 4	12.86	21	21
Sibsagar			6,669		200		29-99	85	58	12 75	8.73	16	8
Nazira	***	***	3,484		97		27-84	53	53	15:21	15.21	1	1
Jorhat			8,334		264	181	31.68	134	93	16.08	11:16	10	7
Golaghat		***	4,683		142	1	30-29	12)	83	25-59	17-70	22	19
Dibrugarh		5,000	18,734		457	131	24 39	370	209	19.75	11.16	14	12
Doom Dooma		***	1,900	18	21	12	11.05	15	15	7.89	7-89	12	12
North Lakhim	pur		2,120	12	53	-	27:35	48	33	22.64	18:39	5	- 1
Tinsukia	***	T	5,160	12	102	0	19-76	49	49	9-50	9.50	13	22 7
	Total		194,474	1	6,259		32-18	3,455	2,675	17.77	13.75	396	290

IMPERIAL STATEMENT NO. Le-Showing particulars of corolections dis

-			-					-				.1	
							there.						TrinicT
-										177			
													ii.
1										100			55
ı					2		100				100		September 100
					5		2		7		110	300	11
1		OH ORA TRILL											
	Cooling	10			201,01						928	118	331
	\$18148		-14	HStS-E					6,016				618
	ban badX			-		1				102,5		092	288
-		***								200	9.48	5	12 70
		of Surge V										1,116	3,000
ľ	Ann	ST VALLEY IN	-Maleuri										
1	Geolpeta	***		1000							275	102	02
	Name p		***		NTS.	EME	STAT						088
	Darrang	444	1000	- 150			and-			24		104	21
	Normanie	***	111	***	ON.	NATI	VACCI			1,000		832	8
	Bilonger			-111		3				016	102		110
	Labingur	***		11.8						200	100:		OE2
	Garo Hills	***		***					180	-11	2.5		1
	Total	laV count to	dvid geli	no got					5,0,3	0.6	2028		1,50
		69		***					4154		2342	1,007	13
				100						1000	aug-	016	

IMPERIAL STATEMENT No. I .- Showing particulars of vaccinations in

		Name of the	36	according	inators to year.	Total	number of y	percons	of persons vaccinator.			Primary
				district act 1931.	shout th				r of			Suc-
No.	Districts(or t	OWES.		Population of dis- to census of 193	Average number of vaccinators employed throughout the year,	Males.	Females.	Total.	Average number vaccinated by each	Total.	Under one year,	One year and under six years.
1	2			3		8	6	7	8	9	10	11
	TOWN	s		133								
	SURMA VALLEY AND	HILL DIVISIO	N.				353					
1	Cachar			16,195	1	528	300	828	828	478	118	335
2	Sylhet			44,343	6	4,430	685	5,115	852	1,548	447	618
3	Khasi and Jaintia Hill	s		24,324	1	3,296	1,998	5,294	5,294	1,504	546	589
4	Naga Hills			3,194		553	177	730		276	5	97
	Total of Surm Division.	a Valley and	нш	88,056	8	8,807	3,160	11,967	1,496	3,804	1,116	1,629
	Assam Valley	Division.		1 77								
5	Goalpara		*1*	21,442	3	656	484	1,140	380	574	291	203
6	Kamrep			39,028	3	868	695	1,553	518	1,211	309	880
7	Darrang	***		11,964	2	192	172	364	182	339	104	214
8	Nowgong			10,413	1	996	424	1,420	1,420	385	258	85
9	Sibsagar		***	23,175	4	298	177	475	119	201	53	119
10	Lakhimpur		***	27,914	5	435	365	800	160	597	298	230
11	Garo Hills			2,358		163	18	180		25	4	10
	and the same				_							
	Total of Assam	Valley Division	n	136,294	18	3,597	2,335	5,932	330	3,304	1,317	1,741
12	Manipur State			95,668	3	2,835	1,344	4,179	1,393	2,432	1,837	519
13	Sadiya Frontier Tract			4,370	4	1,987	833	2,820	705	241	15	73

DEPARTMENT.

the Province of Assam during the year 1934-35.

Vaccination	15.	R	e-raccination		the resul	of success- in which its were wo,	r vaccinated		Vacefration	successful re-racei- dy, by the	ouch successful by the such
Total of all ages,	Опкложа.	Total	Successful.	Unknown.	Primary.	Re-vaceination.	Persons successfully vaccinated per 1,000 of population,		Total cost of Department,	Number of all s vaccination not radions performed vaccination staff only.	Average cost of each case performed by nation staff,
12	13	13	15	16	17	18	19		20	21	22
									Holeston	DAVID WAS YES	STREET VAL
CHICA	witer	2923	Rie Bo		ence!	100	in the last	100	Rs. a. p.		R*. a. p
464	10	350	64	88	99-15	24-43	32.60	1.03	393 0 0	528	0 11 10
1,404	59	3.569	1,189	461	94.42	38.26	58-48	470	6,499 0 0	39,647	0 2 7
1.417	71	3,790	1,498	610	98.88	47.11	119 84	130	1,466 12 8	6,243	0 3
92	1	454	320	134	33-45	100-00	128-99			William Dirm	nank
3,377	14	8,163	3,071	1,293	92-19	44.70	73-23		8,357 12 8	46,418	0 2 1
017,E10	185,15	Palls		E STATE	1101	310	201010				Congellian
535	3	566	223	88	93.70	42.23	35-35	40	533 0 0	758	0 11
1,189	5	342	53	41	98-59	17-61	31-82	49	669 7 0	1,242	0 8
320		26	12		94.67	46.15	27.75	4	414 12 6	332	1 3 1
357	1	1,062	579	22	100.00	55-67	89-89	1	330 4 0	936	0 5
174	8	274	180	140	90.16	134-33	15.28	1000	3,202 3 9	12,293	0 4
687	500.0	203	102	8	99-32	59-31	24:68		609 12 6	689	0 15
14	n	155	81	37	100.00	68-64	40.29	-	The same	toskong vil a si	and a state of
3,176	28	2,628	1,230	286	96-95	52:52	32-33	-	5,819 7 9	16,250	0 5
29	28	1,747	1,554	43	1.21	91.20	16.55	1	765 5 0	3,939	0 3
15	33	2,579	1,562	434	7.21	72.82	360.87	-	1.835 0 0	2,445	0 12

Statement No. I .- Showing particulars of Vaccinations in

1	1 808 T		according	cinators to year.	Total n	umber of persecuted.	reons	ns vacci-		Primary
No.	District.	Salada in Joseph in	Population of district ac to the census of 1961.	Average number of vaccinators employed throughout the year.	Maie.	Penale,	Total.	Average number of persons v	Total.	Under one year.
1	3	183	3	4	5	6	7	8	9	10
	RUR AL AREAS EXCLUDI									
1 2 3 4 5	Cachar Sylhet Khasi and Jaintia Hills Naga Hills Lushai Hills	o M cos in	175,650	30 98 8 6 8	23,249 81,264 9,008 5,013 7,248	15,699 67,128 10,015 4,333 4,072	38,948 148,392 19,023 9,346 11,320	1,298 1,514 2,378 1,558 1,415	18,196 101,690 9,201 6,960 7,026	1,58 6,46 1,75 80 1,21
	Total of Surma Valley and Hil		3,799,991	150	125,782	101,247	227,029	1,514	143,073	11,82
6 7 8 9 10 11 11	ASSAM VALLEY DIVISION Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur Garo Hills		937,718 572,853	53 45 34 26 45 32 7	65,426 30,453 31,891 23,531 27,005 19,117 13,101	52,656 24,982 26,615 17,049 21,252 16,922 11,882	118,081 55,435 58,506 40,580 48,257 36,009 24,983	2,228 1,232 1,721 1,561 1,072 1,126 3,569	42,909 41,170 21,904 20,039 35,751 31,769 8,659	4,43 4,34 2,58 7,79 2,17 5,07 4,77
	Total of Assam Valley Divisio	n 024	4,719,417	212	210,523	171,358	381,881	1,578	212,201	31,16
13	Manipur State		349,938	14	11,633	7,463	19,086	1,363	13,697	8,08
15	Sadiya Frontier Tract Balipara Frontier Tract	0 7 002 11	48.975 5,148	4	2,647 266	723 182	3,370 448	842 448	1,744	
	Total Vaccine Department	e "t 600,0 in	9,247,857	414	368,067	288,645	656,712	1,479	380,80	-
	Total of Dispensary staff Total tea gardens by garden a	5 *91 658 ···	35			· · ·	7,263	800	2,280	-
	Total Jails, Mental hospitals,	Polica hosnitale	3.43		3,791	17,723	36,426		28,406	-
Í	and infectious diseases hosp	itals.	-	-						
	Total of Railway Dispensaries Total of private Medical pract	If Innana			466	169	635		112	-
	Shillong Vaccine Depôt						***	100		
	0 21 0 (45,2 Grand	total	0.047.017	444	391,027	306,646	704,936	1,588	411,78	1
-							13-3-3-3			Sı
			Total number	of person	s vaccinated.	. Total nur	nber of oper	rations perfor	med, ca	ercentage es in which
			Primary.	Re-	waccination.	Prin	nary.	Re-vaccina	tion.	Primary.
	1		2		3	1		5		6
	ectal staff— icts excluding towns		371,0 9,78		260,791 15,117		371,023 9,781		791	91-2
	Tota	al	380,80	04	275,908		380,804	275	,903	90-6
By By By By ot	ispensary staff private Medical practitioners tailway dispensaries ther agencies, Tea-gardens, Jail I hospitals, Mental hospitals a diseases hospitals.	ad infectious	2,28 11 28,58	2	4,978 523 11,742		2,285 112 28,584		,978 523 ,742	93·9 81·2 96·6
	Total	al	80,98	31	17,243	3	30,981	17	,243	96.4
61.01	long Vaccine Depôt			_		-				

DEPARTMENT.

the Province of Assam during the year 1934-35.

raccination.			Re	-vaccination		Percentage ful cases in	e of success- which the	cinated	311 45		
cessful.		100	hologas, p	Printer			re known.	off vac	127	Number of all successfull vacci-	Average cost o
Over one and under six years.	Total of all ages.	Unknown.	Total.	Successful.	Unknown.	Primary.	Re-vaccination.	Persons successfully vaccinated per 1,000 of population.	Total cost of vaccination department.	nations and re- vaccinations performed by the vaccination staff only.	cach successful case performe by the vaccius tion staff.
11	12	13	14	15	16	17	18	19	20	21	23
	01-1	0				0			Rs. as. p.		Rs. a. p.
12,953 76,312 5,590 5,058 3,824	16,933 95,176 9,173 5,861 1,987	490 3,163 235 573	20,752 46,702 9,822 2,386 4,294	9,541 22,601 6,347 2,273 2,330	2,012 8,164 162 113 407	95.63 96.60 99.70 87.15 30.79	50.91 58.65 65.70 160.00 59.94	47.76 43.95 58.43 46.31 34.70	6,630 14 3 12,405 0 9 2,933 9 4 2,146 5 0 2,244 12 0	26,474 79,294 12,488 7,861 9,356	0 4 0 0 2 6 0 3 9 0 4 4 0 3 10
103,737	129,130	4,461	83,956	43,092	10,858	93.16	58-95	45.32	26,316 9 4	135,473	0 3 1
22,794 27,930 11,915 17,231 25,215 23,083 2,854	35,622 37,387 18,712 29,278 31,563 30,883 7,628	5,512 2,191 1,449 2,122 355 458	75,172 14,265 36,602 10,541 12,506 4,970 16,324	38,074 7,905 19,344 8,197 5,022 2,850 11,132	17,870 3,210 7,035 14 2,687 461 1,606	95·25 95·92 91·48 97·47 93·86 98·31 93·01	66:44 71:51 65:42 77:87 51:15 74:82 75:64	85:56 48:30 66:43 67:87 40:20 48:12 99:49	11,447 9 9 9 9,433 5 6 7,899 7 0 5,359 2 0 6,404 7 6 5,763 2 0 2,110 11 3	73,696 45,293 38,056 36,634 24,586 33,733 18,371	0 2 6 0 3 4 0 3 4 0 2 4 C 4 2 0 2 9 0 1 10
130,022	191,073	12,087	169,680	92,524	32,883	95.48	67-64	60.09	48,407 13 0	270,368	0 2 10
3,814	898	490	6,359	4,383	384	6.80	87.57	1509	3,571 7 0	17,183	0 3 3
698 167	817 290	691 5	1,626 140	1,110 110	271	77.59 95.71	81-18 80-88	39·14 77·70	1,835 0 0 129 3 6	2,684 400	0 10 11 0 5 2
242,400	328,805	17,964	275,908	148,626	16,456	90-62	64 77	51.63	97,081 10 3	495,160	0 3 2
921	1,861	303	4,978	1,564	2,183	93.90	55.96				
11,273	27,450	89	8,020	5,104	399	96.94	66-97				
57	97	5	3,722	1,407	491	56-07	43 55				
41	91		523	162	24	81-25	32:46				
							, A				
•••	***						111		18,677 6 3		
54,693	358,304	18,361	293,151	156,863	49,553	91-07	64-39	55-71	115,759 0 6	495,160	0 3 9

mary.

of successful the results known.	vaccinate	ber of persons ed by each mator,	Number o successfully		Ratio of suc- cessful vac- cination per	Total cost of	Number of all successfull vaccinations performed.	Average cost of each successful
Re-vaccina-	Vaccinators employed.	Persons vacci- nated by each vaccinator.	Under one year.	One and under six years.	1,000 of po- pulation.	Department,	Number of a vaccination	case.
7	11/11/19	1002 204,162	10	11 (1)	13	13	14	15
65-26 56-79	411	1,637 754	61,251 4,285	238,438 3,962	51-93 43 20	Rs. a. p. 80,304 0 10 16,777 9 5	426,108 69,052	Rs. a. p. 0 3 0 0 3 10
64.77	444	1,479	55,536	242,400	51.63	97,081 10 3	495,160	0 3 2
55:96 32:46 60:00	0,018 631		816 55 15,052	921 41 11,330	=======================================		::	
58-23			15,923	12,292				
						18,677 6 3		
64.39	444	1,588	71,459	254,692	55-71	115,759 0 6	495,160	0 3 9

To free against A - drawer further section. But he sudden W drawer further section.	ries in	of vaccina- dispensaries	ons vac-	vectoring number of persons	Telegrafia _	P	rimary vace	ination.		
Districts.			of persons	ber of each ra	8		Successfu	1.	A STATE OF THE PARTY OF THE PAR	
	of strict is att	tached the ye	umber L	number ted by each	Total.	Under	One year	Total of	Un- known.	
10 19	Number of dispen each district to whi cinator is attached.	Average number tors attached to during the year.	Fotal number cinated.	Average	11	year.	and under six years.	all ages.	11	
g a aff	2.13	3	4	5	6	7	8	9	10	
Cachar	9 0 0	12.4	1911		00'02 6	1 0 10 10 10 10 10 10 10 10 10 10 10 10	SE BIL	COURS !	550,55 531,50	
Sylhet Khasi and Jaintia Hills	03		349 2,265		214 481	24 61	137 137	198 286	3 195	- 180 -
Naga Hills	4	***	197	:::	88 92	46 24	34 52	80 16	8 23	
Goalpara			569		49	11	26	47	1	-
Kamrup Darrang			1,093		56	4	6	49		
Nowgong Sibsagar	3.0	y	44 17		41 5	8	26 4	40		0
Lakhimpur Garo Hills	9		149 180		35 25	13	19	35 14	ïi	
Manipur State Sadiya Frontier Tract	0.0		1,308 910		947 246	538 87	3±3 143	856 280	36 26	
Balipara Frontier Tract			6		6		4	5		
Total	0 10	a	7,263	T	2,285	816	921	1,861	303	
12.00.0 1 190.0	6 10 15		11		100				12000	

Comparative Statement No. III.—Showing the number of persons primarily vaccinated in each of the under

					1 18000	Dan	10000	100		Shift or
					A La	70:95	TO N		8 8	Persons
Vaccinati	ng Agents.	100	Total number.	Number success.	Total cumber.	Number success. fully vaccinated.	Total number.	Number success- fully vaccinated.	Total number.	Number success- fully raceinated.
		0 0	952,311	17-83	(E)0	10-10	and and and	1001 100	,040 TOC.	Year ending
			1925-	26.	36	26-27.	21	927-28,	190	18-29.
1			2	3		6	6	7		personal de
to him system.	- 11	-	No. 2017	*100 70	dust-				- Marie Break	111
Government			29,979	27,812	34,589	27,786	65,524	59,339	50,560	44,570
Dispensaries	***		2,853	1,987	2,212	1,801	5,980	5,171	5,662	4,503
Municipal			4,881	4,624	5,009	4,787	5,881	5,443	7,231	6,744
Local Funds	"		268,846	256,726	301,565	286,393	312,404	291,569	288,661	270,257
Licensed vaccinat	ors	,								
Apprentices	201,005	01.0	733	700	900	885	1,092	1,059	713	657
Native States	027,000		18,089	15,370	16,972	14,655	18,304	15,995	19,366	14,258
Total			324,881	307,219	361,247	-336,407	409,185	378,576	372,193	340,989

VACCINATION.

in the Province of Assam during the year 1934-35.

est of the moltes	Re-vaccination	n.	Percentage of s which the resu	uccessi ilts wer	ful cases in re known.	Percentage of unknown cases to total cases.			
Total.	Successful.	Unknown.	Primary.	Re-	vaccination.	Primary.	Re-vaccination.		
	CARY 1882.	per filts Jan		132		sadelia 1			
11	12	13	14	100	15	madellal 16	17		
135 1,784 109 84	44 10 103 35	20 1,745 6 49	98·84 100·00 100·00 23·19	101 101 101	38-26 25-64 100-00 100-00	1·40 40·54 8·84 25·00	14 81 97-81 5-50 58-33		
1,087	268 453 3	160	97·92 87·50 97·56	181	51.65 100.00	profit :: sfirst	14-23		
12 114 155 361 664	93 81 170 284	37 17 75	100·00 100·00 100·00 93·96 104·55	ise.	81·58 68·64 49·42 48·22	44·00 3·80 10·57	23.87 4-71 11.80		
	er more 1890,	106 12th Se	83.33	er		angles, 2.	and bear		
4,978	1,546	2,183	93-90	101	55.31	13-26	43.85		

and the number of those who were successfully vaccinated in the Province of Assam mentioned official years.

primarily vac	cinated.							regardis 7	
Total number,	Number success- fully vaccinated.	Total number.	Number success-	Total number.	Number success- fully vaccinated.	Total rember.	Number success- fully vaccinated,	Total number. Number success-	Total number. Number success- fully vaccinated.

31st March-

1929	-30.	19	30-31.	193	1-32-	193:	2-33-	paralita	1983-34-	1934-3	15.
10	11	19	13	14	15	16	17	18	19	20	21
				10,0	3.07	8950	- 1017	101 12/3 11	0.2		-
36,803	32,086	38,520	33,353	41,320	37,769	35,322	31,076	37,101	30,405	59,210	32,596
2,851	2,231	2,539	2,217	2,753	2,108	2,139	1,629	2,161	1,759	3,414	2,862
4,935	4,645	4,752	4,521	5,900	5,542	5,846	5,582	5,603	5,336	6,376	6,106
260,658	238,776	250,393	230,321	250,148	221,525	284,814	257,327	311,975	272,296	296,742	272,775
1,132	962	1,145	1,078	600	555	446	406	643	507	1,218	1,142
18,240	16,171	17,403	15,203	17,551	15,484	15,530	14,782	16,104	14,219	16,129	15,185
324,619	294,871	314,752	286,693	318,272	282,983	344,097	310,802	373,587	324,522	383,089	330,666

Statement No. V.—Showing the number of vaccinations performed in Municipal towns on children under one year of age during the year 1934-35.

naiten	Districts.	no lo mo	Towns.	Number of births during the	100.00	during the year.	Number of successful vacci- nation on children under one year during the year ending Sits March 1934.	Date of	extension of	Vaccinatio	on Act to tow
	1		2	8		4	8		6		
		1	Silchar	261		27	1	6 21st Js	nuary 189	2.	
Cachar	17	[Hailakandi	83		14		7 10th N	ovember 1	922.	
		(Sylhet	599		102	25	8 1st Oct	ober 1882,		
			Habiganj	254		35	6	8 11th D	ecember 1	913.	
Sylhet	-	}	Sunamganj	178	18:84 00:00	30	113	8 28th J	ne 1915.		
		13	Karimganj	193	00:6	29	6	3 27th J	nly 1915.		
		1	Maulvi Bazar	130	51.5	20		0 16th A	pril 1916.		
Khasi .	& Jainti	a Hills	Shillong	665	No. of	39	43	3 21st Ju	ne 1895.		
		00-1	Total of Surma Val- ley and Hill Di- vision.	2,363	10-0	296	97	3			
		r	Dhubri	342	1080	40	2	3 13th F	bruary 18		
Goalpar	ra	}	Goalpara	199	1000	18	10	5 12th N	ovember 1	890.	
Gar N		-	Gauripur	158	0000	23	5	4 15th S	ptember]	1932.	
		(Gauhati	745	OHING IS	85	49	3 August	1882,		
Kamru	1p	{	Barpeta	874		66	57	3 29th O	tober 191	5.	
		- (Tezpur	305		40	6	4 22nd M	lay 1907.		sit hu
Darran	ıg	{	Mangaldai	53		7	1	-0.1	tober 190	6.	
Nowgo	ng		Nowgong	383		52	23	6 7th Apr	il 1897.		
		٢	Sibsagar	251		21	2	9 21st Ja	nuary 189	2.	
			Jorhat	263		31	10	3 12th Ap	ril 1892.		
Sibsage	ar		Golaghat	184		14	1	4 24th Ma	rch 1892.		
			Nazira	89		12		3 1st De	cember 19	16.	
		(Dibrugarh	460		43	22	133	ber 1883.		
Lakhin	npur		Doom Dooma	17		1			tober 1918	3.	
	Abut		Tinsukia	110		15	3:	31st Au	gust 1922		
		0.0	Total of Assam Valley Division.	4,433	1	468	2,03	_	- 12	ou l	
			Total for the Pro-	6,796		764	3,01	0			
1,00	018,03	202,08	107.10 100011	500,03	100	100	020010	1000	XXLAL	000,00	800.08
	Alle										198,91
										055,042	
	10,120										
											010200

Statement No. VI .- Showing, side by side the ratio (per 1,000 of population) of deaths

			100	1	925-26.	1	926-27.		1927-28.	19	38-29-
Advanced by principal of	Dis	trict.	per ex	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pos.	Number of successful vaccinations.	Ratio of deaths from small-por.	Number of successful vaccinations.	Ratio of deaths from small-por.	Number of successful vaceinations.
- CE	1 ==	Proul	1004	2	5		00	6	984	8	9
Cachar		EDA. 121		.05	21,904	-01	24,769	-15	41,331	1.61	65,942
Sylhet		300.01		*06	139,006	16	156,196	1.37	253,654	1.79	219,845
Khasi and J	aintia	Hills		-004	13,547	.05	19,188	-28	63,020	.06	29,559
Naga Hill	s			.006	4,859	1,10,3	8,740	.006	8,845	348.8	5,374
Lushai Hills	8	888.1	***		5,329	119,5	6,712	7,00	9,588	1335	10,632
Goalpara	10.	208.10		.30	31,517	-57	42,533	1:38	65,943	1.20	49,433
Kamrup	01-	874,54	100	.69	39,986	1.32	48,991	-67	49,939	-37	49,892
Darrang	30	884,05	- 10	-22	20,353	-36	21,887	•10	25,860	.10	26,664
Nowgong	30	20,02	100	.02	20,389	-01	23,095	-005	26,443	-06	26,871
Sibsagar	100	1000		2.99	40,821	3:40	61,006	-57	50,413	-06	37,528
Lakhimpur	0	ALL SECTION	22.0	.14	22,346	.38	24,436	-53	26,400	.15	20,639
Garo Hills		SAGIS	00-	.02	8,106	.20	23,994	-41	41,017	-35	22,53
Manipur Sta	nte	442.07		BIG	16,300	1	15,598	11.00	34,317	101/10	41,077
Sadiya Fron	ntier T	ract		-09	1,353	.05	2,197	1.379	3,757	08E-1	4,793
Balipara Fr	ontier 3	Cract						1			
		Total	700	-45	385,816	-65	478,842	-79	700,587	-86	619,277

from small-pox and the number of successful vaccinations during the ten years ending 1934-55.

1929-30.			1930-31.		1981-82.		1932-33.		1955-54.		1984-35.	
Batlo of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Estio of deaths from email-pox.	Number of sn.censful vaccinations.	Ratio of deaths from small-pox,	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	
10	n	12	13	14	15	16	17	18	19	20	21	
.32	30,687	.04	19,418		19,255	120	24,418		22,822		27,002	
.15	145,407	-04	129,248	*01	108,508	1004	116,176	'02	111,605	.02	120,612	
.03	13,574	000.0	12,967	.003	14,098	72.0	15,222		13,654		18,49	
	5,845	***	5,325		6,044		6,758		6,432		8,546	
200,	11,771		5,037	-255	4,914	200.0	7,499		7,986		4,317	
-26	55,246	.61	51,704	.29	65,171	-30	110,298	'04	94,802	.01	74,769	
.21	49,553	.29	49,825	.17	46,086	-17	41,043	-07	46,478	•10	46,53	
*08	26,726	:15	35,005	*04	24,716	-05	28,454	-04	30,935	-06	38,89	
.01	27,908		28,873	********	28,507	(200)	28,051	002	28,922	-03	37,91	
.02	39,509	-03	41,950	.07	34,567	-06	50,493	.01	35,214	.01	36,94	
*26	21,346	.27	25,601	.11	18,877	.03	24,440	-008	28,118	-01	34,55	
*06	21,541	13	18,997	.15	14,948	.03	13,978	.06	21,342		18,85	
	30,444	112.31	19,284		18,726	000	20,313		20,293		7,89	
1,000	4,385	.02	6,777	201	4,123	-09	2,878		2,552	F	5,13	
					291		478		514	T taking	40 mg 40	
-14	483,942	-14	450,006	1 :07	408,831	-06	470,499	-03	471,669	*02	480,85	

GOVERNMENT OF ASSAM.

The Governor and the Minister of Local Self-Government.

Resolution on the Annual Public Health Report of the Province of Assam for the year 1934.

Extract from the proceedings of the Governor of Assam and the Minister of Local Self-Government in the Local Self-Government Department, Public Health Branch, No. 4971-L. S.-G., dated the 14th December 1935.

READ and a compulsor as a compulsion as a compulsor area as a compulsor area.

The Public Health Report for the year 1934.

RESOLUTION.

The birth-rate fell from 31.04 in the previous year to 30.62 in 1934, and the death-rate from 20.31 to 19.64. These rates are calculated on the figures of the 1931 census, but as in the last report an attempt has been made to estimate the probable present population: according to this the rates would be 29.61 and 18.99 respectively. Both are lower than the corresponding rates in most other provinces, but such comparisons are likely to be vitiated by defects in the system of registration, of which there are glaring instances cited in the body of the Report.

- 2. The year was generally satisfactory in respect of health. Cholera was not so serious, and only 1,904 deaths from the disease were recorded, as compared with 5,508 in 1933: this is indeed the lowest total for many years. The following spring however has produced a serious and wide-spread outbreak. Small-pox showed a new low record of mortality since 1912, deaths being 206. The number of attacks and deaths from kala azar rose only slightly, from 12,650 to 13,398 and from 749 to 770 respectively. These figures are again completely dwarfed by the deaths, 101,779, classed as due to fever, which include a large proportion ascribable to malaria. This is no doubt still the worst enemy against which the population of the province has to contend, playing as it does a part as accessory in many fatal illnesses even where it is not the principal. Typhoid was responsible for 42 deaths in ten towns, seven of which have piped water supplies. The continued prevalence of typhoid cases in Gauhati, where the causation has not yet been definitely identified, causes anxiety. If there is any reason to suppose that the rural population has an acquired immunity against typhoid and that this immunity is lost by regular consumption of chlorinated water, it appears desirable that the towns-people should be warned against the occasional resort to other sources, which might be a cause, as well as contamination of milk or of municipal water-supply, for outbreaks.
- 3. Investigations into cholera continued at the Pasteur Institute, and with bacteriophage in the field. The results achieved with bacteriophage in the field have varied considerably in the extent to which they suggest that this is a valuable agency in checking cholera: the virtue of the 'phage can only be left to the future for definite assessment. As was observed in the Resolution on the previous year's report, the statement that combined 'phage does not appear to have influenced the mortality from dysentery in Nowgong—a 'phage experimental area—indicates a need for study of this phenomenon. The origin of the initial outbreak has been established in numerous recent epidemics as being import by travellers, harvesters and workers from Bengal districts. In regard both to basic research and practical investigation of the properties of bacteriophage a need for some method of studying causation in the field and for prompt examination of material on the spot seems to have been shown.

The Goalpara epidemic again brought into prominence the loss of life entailed by delay in reporting outbreaks until they have secured firm hold. Attention is being given to the possibilities of improving the intelligence system within the limitations imposed by public ignorance and the absence of a paid agency; also of securing the public observance of certain essential precautions by statutory regulation under the Epidemic Diseases Act.

- 4. The Assam Medical Research Society completed a number of malaria surveys in the Assam Valley and achieved advances in knowledge which give promise of great practical value. The future of the society up till the time—in 1937—when the principal present enquiry is expected to be complete, has been assured by the decision of the Indian Research Fund Association to continue a grant for this period. The subsequent arrangements for carrying on a work of great importance, both sanitary and economic, are being examined by Government. The report does not refer to the question whether anti-malarial measures have, as is believed to be the case, reduced the incidence of malaria.
- 5. The number of vaccinations was 704,936 as compared with 706,460 in the previous year. It is unsatisfactory that barely 50 per cent. of the infants due for vaccination were successfully vaccinated during the year. The whole of Goalpara district was notified under the special regulations as a compulsory area, as well as certain mauzas elsewhere.
- 6. An important decision was taken after the close of the year—to make the greater part of the Public Health Department staff permanent—and the Council voted a token demand for that purpose at its last session. This is a step which has been delayed, not merely by shortage of funds, but also by doubt how long, with the gradual diminution of kala azar, a large cadre of qualified medical workers would be required, and what form of organization would be best suited to the ordinary problems of public health. It has however become increasingly evident that the treatment of special diseases, especially leprosy and yaws, which the Department has been compelled by circumstances to undertake, will for many years preclude any considerable reduction in the medical staff required even if fears of the possible recrudescence on a large scale of kala azar should not materialize. The improvement in status and prospects thus attained has been well deserved by the manner in which the Public Health personnel has faced the very arduous tasks presented by large scale cholera epidemics in recent years, and also the unpleasant and frequently hopeless—seeming routine duties of treating special diseases.
- 7. Inadequate resources prevented any real improvement of rural conditions by the local boards. Early in the following year the announcement by the Government of India that a crore of rupees would be spent in the provinces on amelioration made a definite move in this direction possible. Of the 5 lakhs allotted to Assam 3 lakhs will be spent on drinking water-supply, the deficiency of which has been markedly shown by the course of epidemics, and Rs. 40,000 on rural sanitation.
- 8. His Excellency and his Minister have read the report, with the names of those who rendered conspicuously good service, with much interest, and trust that the recognition of its permanent usefulness will inspire the Department to even more vigorous efforts for the solution of the province's many health problems.

By order of the Government of Assam,

SHILLONG

The 14th December 1935.

H. G. DENNEHY,

Secretary, Transferred Departments.

A, G. P. (D. P. H.) No. 4-258+3-19-12-19 35.

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