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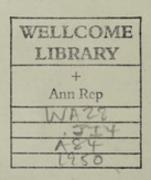


ANNUAL PUBLIC HEALTH REPORT OF THE STATE OF ASSAM FOR THE YEAR 1950

BY

Dr. S. C. DUTT, B. Sc., M.B., D.P.H., DIRECTOR OF PUBLIC HEALTH, ASSAM

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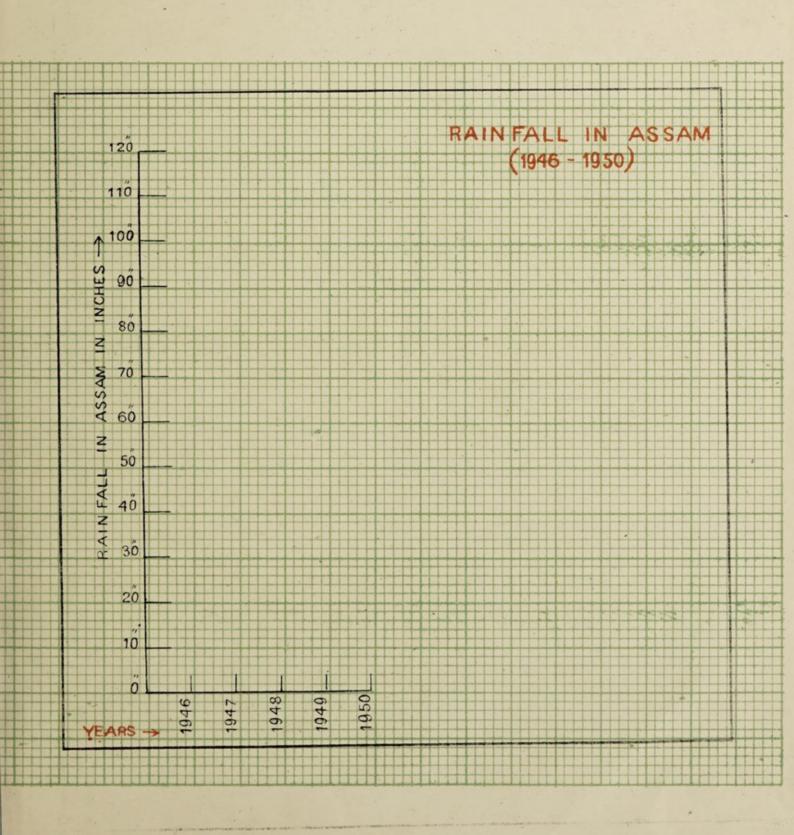
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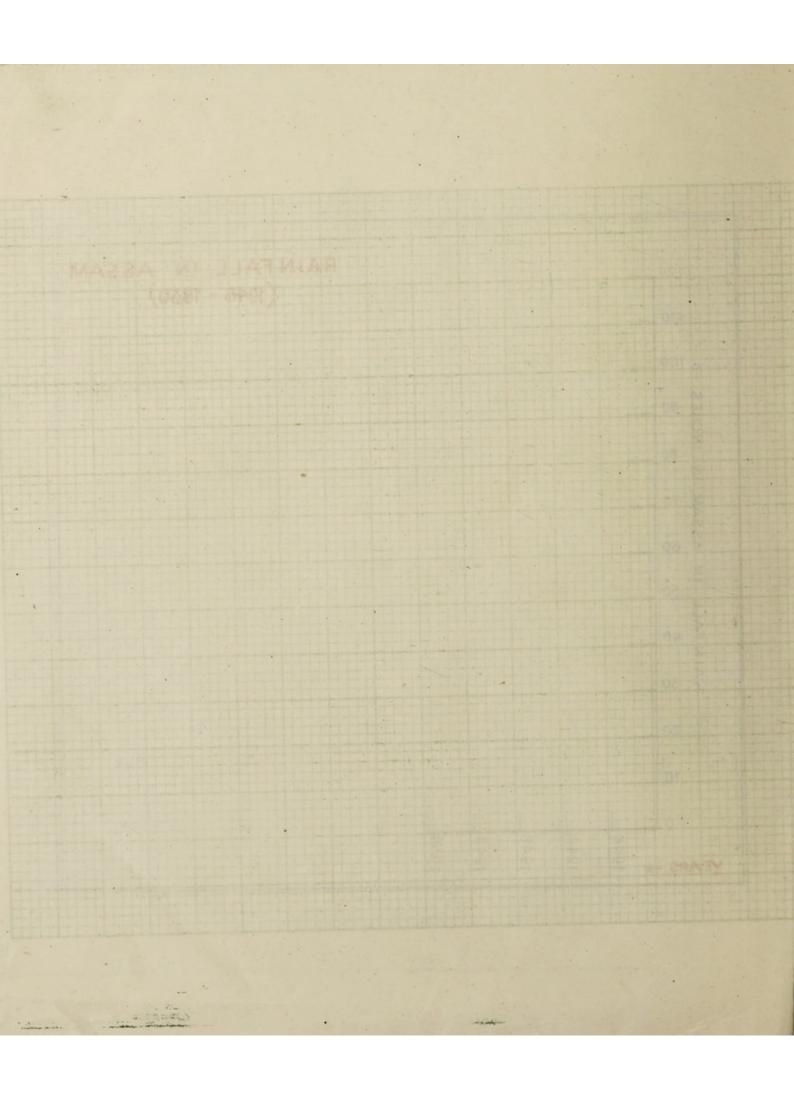
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CHAPTER I

Meteorology, Economic conditions, i.e., price of food-grains, etc.

1. Meteorology.—The climatic condition of the State of Assam during the year under review was moderate and rainfall was a little less than the previous year.

Rainfall.—The total rainfall during the year 1950 was 92:21 inches, as compared to 1)7:90 inches in

1949,-the quinquennial average being +105.83 inches.

Rainfall was in slight excess in January while in February it was in moderate excess. Temperature, cloudiness and humidity were normal during both these months. Weather was practically dry during the month of March. Thunderstorm caused fairly widespread rain during the greater part of May. Day temperature was normal in March but was in slight excess during April and May. Night temperature, humidity and cloudiness were normal during the period. The monsoon remained generally active till the end of June. In August, widespread rain with local heavy falls occurred for several days, and, consequently the total rainfall during the month was slightly in excess. The monsoon during the month of September was rather weak but the thunderstorm caused rain for a number of days. Temperature, humidity and cloudiness were nearly normal during the months of June to September. During October, rainfall was normal but cloudiness was nearly normal during the months of June to September. During October, rainfall was normal but cloudiness was a little more than usual. In November, the rainfall was more than usual while cloudiness was normal. The weather was practically dry over the State of Assam during the month of December except scattered rain. During October to December, night temperature was slightly higher than usual but day temperature and humidity were nearly normal during these months.

A statistical statement is appended below to show the actual position of seasonal distribution of rainfall

during the year 1950.

Period(s)	Actual Rainfall in 1959 (2)	Actual Rainfall in 1949 (3)	Average for the last three years (4)	Departure from the normal (5)
I. Cold weather period (January to February)	+2-93	+1.62	+2.39	+0.68
II. Hot weather period (March to May)	+19-63	+30.54	+29.14	-5.56
III. Monsoon period (June to September)	+63-04	+69.72	+67:17	-1.38
IV. Retreating monsoon period (October to Dec-	+6.61	+6.02	+7:37	+.46
Total for the entire year	+92.21	+107.90	+106.07	-5.80

A graph showing rainfall in inches in Assam for the last five years (1946-1950) is appended below :-

Another table showing the monthly mean temperatures, humidity, cloud and amount of rainfall with corresponding departures from normal is also appended below:—

I man and a second	-				1		andre en	Committee of the last of the l	100,000	
				Temperature			Cloud	and examined	Rainfall	
Mo	onth 1950		Dept. of Max. from normal	Dept. of Min. from normal	Dept. of Mean Temp.	Humidity Dep. from normal	Dep. from normal	Actual	Dep. from normal	Percen- tage Dep. from normal
THE WAY	1	Linns	2	3	4	5	6	7	8	9
January	a later	MI	+1·1	+0-6	+0.8	-3	-0.4	0.77	+0.07	+10
February	(1)		-0.4	+1.7	+0.9	-1	+0.1	2.16	+0.61	+39
March			-0.4	+0-4	0	+2	-0.1	3-28	-0.03	-1
April			+3.1	0.7	+1.3	6	-1.2	4.91	-3.77	-43
May			+1.4	+0-4	+0-9	0	+0.3	11:44	-1.76	—13
June			-0-7	-0.1	-0.4	+4	+0.7	19.62	+0-54	+3
July			+0-7	+0.4	+0.6	+2	+0.4	14-87	-2.51	-14
August			-0.9	-0.7	-0.8	+3	+0.6	19.48	+3.70	+23
September	08		+0.9	+0.2	+0.7	+1	+0.1	9.07	3.02	-25
October	3		-0.4	+1.5	+0.0	+3	+1.4	4.88	+.06	+1
November			+0.4	+1.6	+0.9	0	0	1.62	+0-61	+61
December			+0-6	+2.9	+1.7	-2	+0.6	0.11	-0.21	-66

2. Economic conditions, i.e., price of food-grains, etc.—The economic condition of the people of the State of Assam during the year under review was worse than in the previous year. This was mainly due to the fact that the prices of food-stuffs and other necessaries of life increased further. Rice is the staple food in the State of Assam. During the year under review, the people of Assam were not opulent, and lived upon a very narrow economic margin.

The Statement below showing the average retail quantity of common rice sold per rupee in the year 1950 and during the previous five years will indicate that the general economic condition of the people in

general in the State of Assam did not improve during the year under review.

Districts	1950	1949	1948	1947	1946	1945
ders, Temperature, bimid to and cipelines	2	3	10040 mg	5	6	7
Daring Oxiobes, rainfall ovas normal but	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
Cachar	1 8	2 4	2 13	2 0	3 8	13.4
Goalpara	1 10	2 6	1.15	2 12	3 7	3 2
uring these mouths.	1 6	2 0	2 9	3 1	2 12	2 10
Kamrup lo scillude with lass over he conflicte in			2 0	3 5	3 6	2 12
Darrang	1 12	1 14				
Sibsagar	1 8	1 11	2 1	2 13	2 14	2 10
Lakhimpur	1 9	2 2.	2 3	2 14	3 6	3 2
Nowgong	1 8	2 1	2 2	(1	3 14	
Average	1 8	2 0	2 13	3 7	3 3	2 5

The undernoted price index figures of common rice reflect higher prices during 1950 than during the previous years.

		1936-40	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
1	14:50-6	2	3	4	5	6	7	8	9	10	11	12
Price index	2014 .	. 100	183	184	1:454	465	558	338	339	456	581	775
-Birth-rate	 	. 27-90	26.70	21.53	19.06	16-77	16.76	18.21	15.85	18:40	14.78	14.28
99.5-	 10-101-6	. 19-49	16.75	15-42	16.34	16.84	13.77	11.37	8.75	8.60	8.15	7-96

A graph is appended below showing the trends of mortality rates and natality rates per mille from the year 1936 to the year under review.

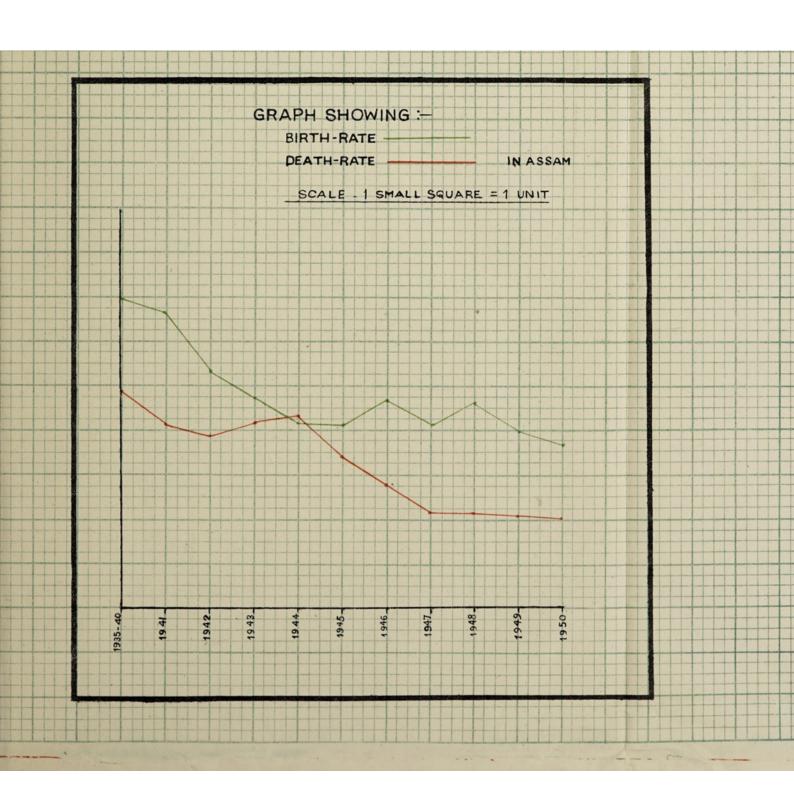
According to the reports maintained by the Supply Department, the following quantities of food-stuffs were imported during 1950 into Assam for casual consumption :-

- (1) Rice—103,458 mds. including 30,500 mds. received as free gift from Pakistan, the Punjab and other places for Earthquake affected areas.
- (2) Chira-2,433 mds. donated by the Manipur State for Earthquake affected areas.
- (3) Wheat-575,586 mds.
- (4) Flour-10,881 mds.

As per report received from the Department of Agriculture, the total quantity of estimated acreage and production of forecasted crops for 1950-51 is given in the table below:—

promise	STROTE OF FORCE	constant or old		-					
+10		Name of crop	A:0-				Estimated area sown in acres	Estima	in tons
		(1)					(2)		Edmany (E)
Rice		Autumn Winter		 s+	o	+10-	908,900 2,800,200		306,700 986,400
21-		Spring		 à	0.64	10-	62,000	(Gur)	72,500
Sugaro		Summer	60+	 0	804	104	16,500		37,125 105,600
		Winter	*110:1-	 4	ho-;	17.	44,900 306,100		53,261
1 Lance	and mustare	d Matikala	004	 E+	0.04	10-1-	300,100		· April
Pulses		Others		 s4	.010	2.444	*		9,100
Cotton	20.6-	10.0	P0-1-		7-9-1-	9/0-1-	24,400		808,700
Jute. Tobac		80%	F1+		8°0-j-	84.4	21,900		69,900
100ac	100 H	1971	9	Too early to	o estimate.	0.1-1-	9-0-1-		reference
					oales of 392 lbs.	each.	3-0-j-		esdemoler

3. Jute in bales of 400 lbs. cach.



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CHAPTER II

Vital Statistics

- 3. Population.—The population of the State of Assam as per 1951 census was 91,29,442 giving a density of 145.52 per square mile. The population of the seven plains districts of Assam to which this report mainly refers was 80,08,903 according to the provisional census population of 1951. The mid-year estimated population of the same area for the year 1950 calculated by the arithmetical progression method was 75,91,183. The mid-year estimated population of the hill districts was 11,09,918. Therefore, the mid-year estimated population for the State of Assam was 87,01,101 in 1950.
- 4. Births and Birth-rates.—The total number of births including still-births registered during the year 1950 was 1,22,731, yielding a birth-rate of 14.28 per mille as compared to 1,27,154 birth in both plains and hills districts of the State of Assam in 1949.

The number of male births to every 100 female births was 109, the quinquennial average being 108 to 100 female births.

The comparative birth-rates of the other States in India are shown below:-

Name of Province(s)	В	irth-rate per 1,0	000 inhabitar	nts on the ba	sis of Mid-yea	r estimation	-
Pame of Province(s)	1944	1945	1946	1947	1948	1949	1950
000 1	2	3	.4	5	6	-Biarros	8
1. Assam	16-77	16.76	18.21	15.85	18-40	15-06	14.28
2. Bengal	16.14	22-10	22-91	20.2	33.35	30-67	20.8
a. Bihar			22.50			Daris S. The	
4. Orissaup. and count. lo and?					26:416	760,26-05 w b	26.83
5. United Provinces	25.09	27:31	24-33	22.82	20.26	To 22.32	21.04
6. Madras	29.39	28.45	31.62	32'72	31.28	31-69	30-72
7. Bombay	33.93	33.70	33.20	32.87	33.35	30.67	32.79
8. Central Provinces and Berar	37.08	39-33	37:00	34:70	33-27	35.61	33.53
9. The Punjab	36.78	36.10	40.4	33.4	29-9	31.1	32.77
10. North West-Frontier Provinces	(r) 17·17 (d	16.74	18:66	92	(8)		
11. Sind	14-94	14.33	18-88	6,313	610,011		450

The above table shows that the birth-rate in the State of Assam is the lowest in comparison to all other States of India.

5. Registration of births in rural areas in Assam.—The following table gives details of registration of births in rural areas in the State during the year under review:—

Months									bii	Number of ths registered
January		D DEST	000.01		111.4		5,252			11,555
February	SHOP-A	***								11,662
March		3H		***************************************						8,536
April		· · ·								8,057
May		211111111111								7,746
June	***	id						***		9,397
July		7,18161	000,7		033,5	2,603,5	005,6			8,318
August	1007-	00								7,744
September	***									8,921
October		***	***					***		10,141
November				Marin .						10,403
December				*******						11,313
						otal for the	year			1,13,793*

6. Registration of births in urban areas in Assam.—The table below gives details of registration of births in urban areas in the State of Assam during the year under review:—

Months					DE THE V				lumber of hs registered
January	dandar of		10 100					 	536
February	***							 	475
March			1000	411		Mid-Maria		 	518
April								 	522
May	red all							 	587
June								 	443
July	***		,					 	489
August			ed awards				11000	 	530
September								 	523
October	Serebild	1	di nostrati	Hard orbit	Non street	ur.		 	617
November			Thei	83914		110		 	859
December						V =		 	699
Deter Histor								_	
					1	otal for t	ne year	 	6,798*

[·]Excluding still-births.

The number of deaths registered in the seven plain districts of Assam during the year 1950 as compared to the previous year, is shown below:—

		-15-97	Numbe	r of deaths	registered			Number of d	leaths from
District		Mal	e was	Femal	e	Total pe	ersons	· within	and the same of
	_	1950	1949	1950	1949	1950	1949	1950	1949
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Cachar	 	5,759	6,212	5,199	5,771	10,958	11,983	C-190; S-22; P-c; F-5465;	C-372; S-1; P-0 F-6115; DD-935;
								DD-963; RD-586.	RD-549.
Goalpara	 	6,497	5,970	4,790	5,153	11,287	11,123	C-260; S-11; P-o; F-10387; DD-212;	
								RD-213.	RD-206.
Kamrup	 	2,115	2,215	1,788	1,874	3,903	4,089	C-399; S-17; P-0; F-2499; DD-197; RD-120.	C-144; S-27 P-o; F-2999 DD-214; RD-96.
Darrang	 	5,263	5,295	4,137	4,928	10,000	10,223	C-51; S-9; P-0; F-6825; DD-911; RD-532.	C-56; S-3 P-0; F-6817; DD-982; RD-468.
Nowgong	 	2,586	3,440	2,388	3,186	4,974	6,626	C-239; S-o; P-o; F-3481; DD-205; RD-85.	C-175; S-o; P-o; F-4377; DD-584; RD-170.
Sibsagar	 	6,433	6,592	6,201	6,348	12,634	12,940	C-186; S-25; P-o; F-6631; DD-1331; RD-951.	C-321; S-50; P-0; F-6612; DD-1533; RD-1028.
Lakhimpur	 	3,708	3,662	3,530	3,702	7,238	7,364	C-55; S-9; P-0; F-3114; DD-703; RD-661.	C-14; S-16; P-0; F-2743; DD-822; RD-775.

Abbreviations:— C— Cholera.

S—Small-pox.

P—Plague.

F—Fevers.

DD—Dysentery and Diarrhoea.

RD—Respiratory diseases.

^{7.} Deaths.—The total number of registered deaths during the year under review was 67,178, yielding a death-rate of 7.96 per mille in 1950 as compared to 8.15 per mille in 1949. The total number of deaths registered was 68,037 during 1949, 63,984 in 1948 and 63,494 in 1947 in the State of Assam. The quinquennial average is 10.06 per mille.

5

8. The following statement furnishes figures of deaths from certain notifiable diseases in Assam during the war 1950 :-

					**							-		The state of the s			
	Districts	otts			E E	Live- Sull- Births Births		Choic-	pox	Plague	Fevers	And diarr- hoca	Respira- tory dis- cases	Mater- nal death	Inju-	Other	Total
	***							LO .	9	- 2	8	6	10	"	. 21	13	II .
	"I-PLAINS"	"SNJ															
:	:	:	- :	:	:	21,346	820	190	57	1	5,465	963	586	360	136	3,236	10,958
:	:	:	:	:		13,558	:	260	п	;	10,387	212	213	98	43	105	11,287
:	:	:	:		:	6,782	15	399	11	:	2,499	197	120	104	41	526	3,908
:	:	:	:		:	18,130	80	51	6	:	6,825	911	532	272	114	1,286	10,660
:	:	:	:	:	:	9,428	25	239	:	:	3,481	205	855	99	16	8252	4,974
:	:	:	:	:	:	26,475	575	186	25	:	6,631	1,331	951	248	197	3,065	12,634
:	:		:	:	:	14,385	417	55	.6	:	3,114	703	199	145	92	2,461	7,238
T	Total	:	:	:	1,	1,10,104	1,910	1,380	93	:	38,402	4,522	3,148	1,249	669	11,501	666'09
3	"II—HILLS"	T.S.,									Sen.	21-22	NAME OF THE PARTY.	01:01		Mi.	
Khasi and Jaintia Hills	: `	:		:	:	1,983	27	:	120	:	413	51	18	14	9	282	865
:	:	:	:	:	:	5,176	175	eı	:	:	1,362	171	529	39	31	29	2,231
:	:	:	:	:	:	• 149	**	:	:	:	35	61	64	1	01	35	76
:	:	:	:	:	:	2,827	20	487	10		1,469	287	113	91	13	485	2,805
Sadiya Frontier Tract	:	:	:	:	:	276	9	:	:	:	18	20	36	9	:	75	145
Balipara Frontier Tract	:	:	:	:	:	16	:	;	:	:	42	8	0	01	1	8	62
T	Total	:	:			10,487	230	489	11	:	3,339	534	193	78	53	951	6,184
	Gr	Grand Total		:		1,20,591	2,140	1,869	110	:	41,741	5,056	3,941	1,327	752	12,382	67,178

				P	late p	er 1,600	inhabitante o	n the basis of	f mid-year e	stimation :	Total .
No.	Name of	Province(s) '	1944	412,20	1945	1946	1947	1048	1949	1950
(1)		(2)		(3)		(4)	(5)	(6)	(7)	(8)	(9)
1.	Assam			16.87		13-37	18-21	15.85	8 - 40	-60	7.90
2.	Bengal			29.12		21.00	19.6	18-3	18-10	17:43	16.7
3.	Bihar			22.19		20-70	17.60	15-16	13.18	2	
4.	Orissa			33*36		28.68	27.62	26-75	22.57	22.03	20-47
5.	United Provin	ces	g., 1	18-74		18-95	24-93	16-39	13.68	12.66	13-49
6.	Madras			25.40		22-27	31.62	32-72	18-12	17-10	17.10
7.	Bombay			25.47		26-40	23:20	25-72	21.57	19-25	18-31
8.	Central Provin	ces		30.12		39-32	1	34.72	29.17	25-88	25.82
9.	Punjab			25.26		19:40	20-00	19.5	14.69	14.7	18.4
10.	NW. Frontie	r Province		13-97		11-14	18:60	to Rei			
11.	Sind			11.86		10.23	18-88		Appen .		100

9. Infantile mortality.-The following table shows the number of mortality and death-rates amongst infants during the year 1950 and the previous decennium:-

	Malc	Female	Total persons	Male	Female	Total persons	Male	Female	Total persons
	01	8	+	10	9	1		6	10
:	57,665	52,439	110,104	6,020	5,041	11,061	104-39	96-13	106.45
:	60,139	55,181	115,320	6,043	5,015	11,058	100-33	88.06	95-58
:	59,192	176,12	111,163	6,450	5,308	11,758	108,96	95.96	102-95
:	968'65	55,111	115,007	5,703	4,774	10,477	95-22	86.62	91-09
:	96,265	969'68	186,961	1,194	9,839	21,033	116-28	69-601	113-10
:	86,103	82,529	168,632	11,855	10,153	22,608	137.68	123-02	130-51
:	87,049	79,227	166,276	14,430	12,499	26,929	165.77	157-78	26-191
:	96,136	90,028	186,164	13,144	11,248	24,392	136-72	124-94	131-62
:	106,832	100,241	207,073	15,279	12,492		143.02	129-61	136-53
:	131,021	122,060	253,081	19,018	15,362	34,380	147-50	128-55	138-28
:	126,846	117,308	244,154	18,806	15,804	34,610	148.26	134-72	141-75
			59,192 59,192 59,896 86,103 87,049 87,049 131,021 11	60,139 55,181 115,320 59,192 51,811 111,163 59,192 51,191 111,163 59,896 55,111 115,007 86,103 82,529 166,961 86,103 82,529 166,632 87,049 79,227 166,276 96,136 90,028 186,164 131,021 122,060 233,081 136,846 117,308 244,154	59,192 55,181 115,320 59,192 55,181 115,320 59,192 55,111 115,320 59,896 55,111 115,007 59,896 55,111 115,007 86,103 82,529 166,612 116,276 87,049 79,227 166,276 186,164 131,021 122,060 253,081 136,846 117,308 244,154 18	57,665 52,439 110,104 6,020 59,192 51,181 115,320 6,043 59,896 55,111 115,007 5,703 59,896 83,696 166,901 11,194 86,103 82,529 166,632 11,655 86,103 82,529 166,276 14,430 86,103 120,211 207,073 15,279 131,021 122,060 233,081 19,018 125,846 117,308 244,154 18,806	57,665 52,439 110,104 6,020 5,043 5,041 59,192 5,181 115,220 6,043 5,015 59,192 5,181 115,007 5,703 6,450 5,306 59,696 55,111 115,007 5,703 6,450 5,306 56,001 11,194 9,839 56,103 82,529 166,632 11,655 10,153 50,049 79,227 166,276 14,430 12,499 126,049 12,922 131,021 125,040 255,081 19,018 15,362 136,346 117,308 244,154 18,806 15,804	57,665 52,439 110,104 6,020 5,015 11,001 60,139 55,181 115,220 6,043 5,015 11,008 59,192 51,971 111,163 6,450 5,100 111,588 59,896 55,111 115,007 5,703 4,774 10,477 86,103 82,559 166,632 11,104 9,839 21,033 87,049 79,227 166,276 13,440 12,499 26,929 87,049 79,227 166,276 13,144 11,248 24,392 106,832 100,241 207,073 15,279 12,992 28,271 126,846 117,208 244,154 18,806 115,804 34,510	59,192 55,181 115,329 6,643 5,915 11,668 100*33 59,192 51,971 111,163 6,459 5,106 11,758 100;96 59,896 55,111 115,007 5,703 4,774 10,477 95:22 59,265 89,696 186,901 11,194 9,839 21,033 110*28 56,103 82,529 166,522 11,655 10,153 22,008 117*08 56,1049 759,227 166,22 11,655 11,248 24,392 116*77 106,832 100,241 207,073 15,279 12,692 34,390 117;90 115,686 117,308 244,154 119,906 15,804 34,610 116*26

(Figures relate to the 7 Plain Districts only)

The infantile mortality rate showed an appreciable fall since 1947. The rate for 1944 was abnormally high due to the war conditions. In Assam the infantile mortality rate for the year 1950 was 99.00. It is to be noted in this connection, that some countries namely Sweden, Ireland, the Netherlands, Australia and New Zealand in recent years attained infantile mortality rate of less than 30 per thousand. The United States of America has registered a rate of 31; England and Wales 32; Denmark and Switzerland 34. Heavy mortality amongst infants still continues which is mainly due to ignorance on the part of the mother, improper feeding and insanitary surroundings. Endeavour should be made to reduce the infantile mortality rate in Assam also as far as possible by vigorous measures including spread of education. Child health and welfare, is an inseparable part of any modern public-health programme, and the infant mortality rate is a good indicator not only of the health condition of the children but also of the health of the entire nation as well. A chart is appended below showing infantitle death-rate in the State.

10. Maternal mortality. - One thousand three hundred and twenty-seven mothers died as a result of child birth during the year 1950.

An efficient and well-organised maternity service having provisions for ante-natal and postnatal care of expectant and nursing mothers is urgently required to bring down the maternal mortality rate.

11. General accuracy of vital statistics.—A very slight improvement was observed in the registration of vital statistics during the year 1950. The Public Health staff carried out v rification of vital occurre ces as a routine nature of their duties. On a test checking in certain districts, only a slight variation in respect of registration of births and deaths was detected. The percentage of omission during the year 1950, for the Goalpara District comes to 1.47, for the Cachar Ditrict 15.01, and for the Nowgong District 2.81.

CHAPTER III

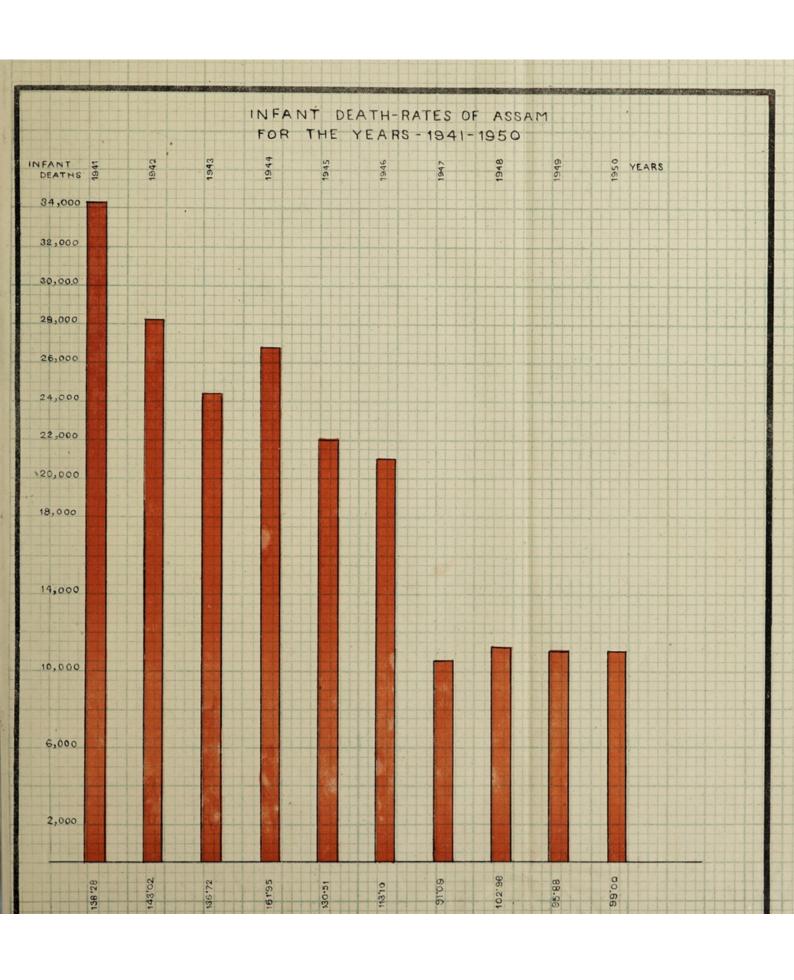
The State of Public Health and History of Chief Diseases

12. [A] State of Public Health—The general state of Public Health in the State of Assam during the year 1950 was on the whole satisfactory in spite of heavy influx of refugees from East Pakistan and great Earthquake in the North-Eastern part and consequent flood. As in the previous year, high prices of commodities and scarcity of some essential food-stuffs like sugar, atta, flour, pulse, milk, fish and ghee continued throughout the year under review. The total number of deaths under all heads of mortality was slightly lower as compared to 1949. The following table shows the death-rate per mille from the chief diseases in 1950 as compared to that during 1949:—

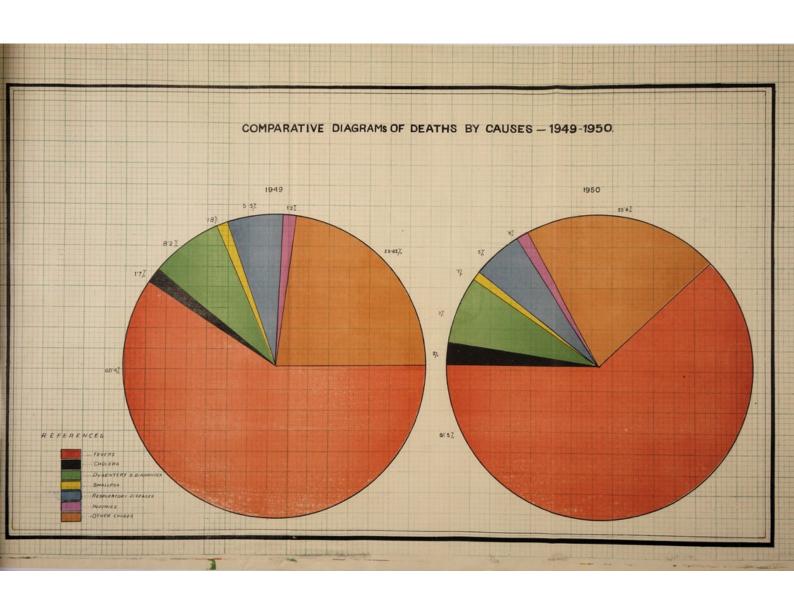
		-	19	50		1	949	
Diseases			Urban	Rural	Total	Urban	Rural	Total
Fevers		 	3.54	5.26	5-49	2.77	5.61	5-51
Cholera		 	*38	*24	*24	-14	•15	-14
Small-pox	=	 	•13	.01	.01	-01	-01	-01
Dysentery and Diarrhoea	1	 	1.40	•62	-66	1.28	-81	-85
Respiratory Diseases		 	1.12	•49	;52	1.22	-49	-53
Injuries		 	-38	.08	-09	-31	-10	-11
Other causes		 	4.90	1.69	1.85	4.39	1.96	2.05
	Total	 	12.28	8.72	8.84	10-12	9.13	9-20

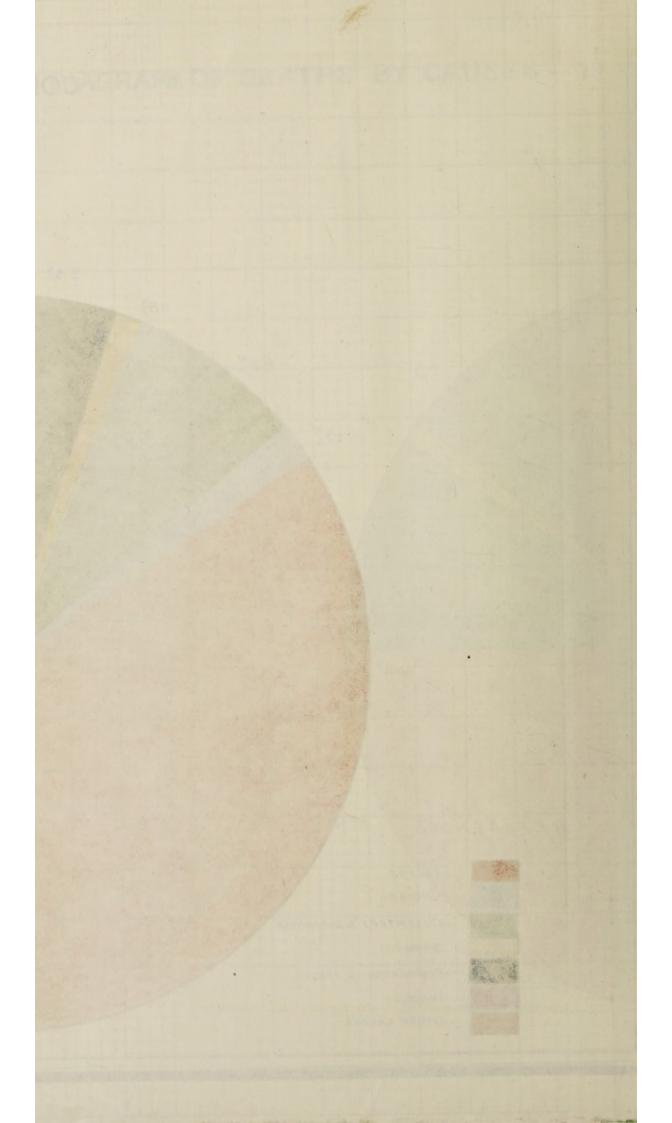
13. Chief Diseases.—The total number of deaths from fevers, which include Malaria, Kala-azar and other chief diseases having fever as symptom was 41,741 during the year under review as compared to 41,091 in 1949 and 37,001 in 1948. 61'1 per cent. of the total mortality during the year 1950 was due to the group of diseases, falling under 'fevers'. This group includes a variety of heterogenous diseases and a large number of unclassified conditions.

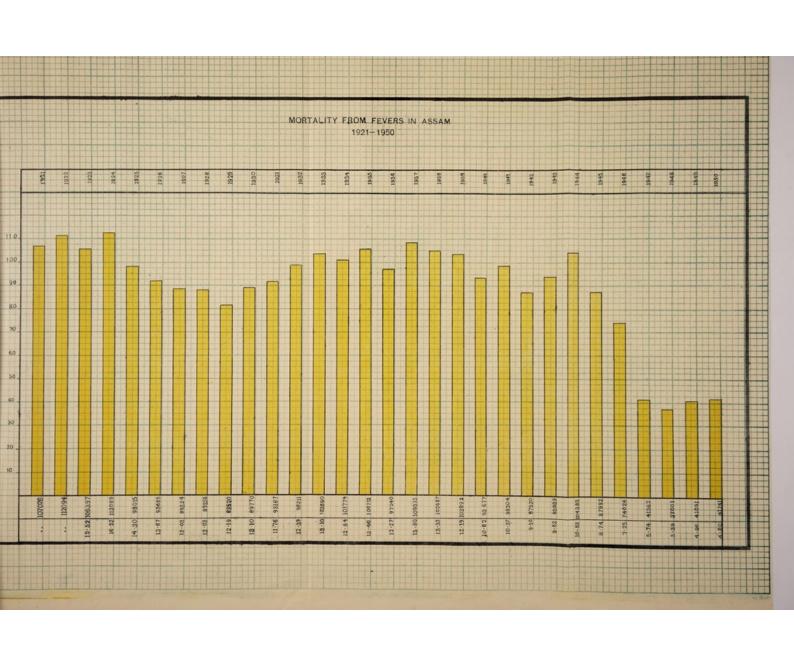
The death-rate per mille due to fevers was 4.80 in 1950 as compared to 4,96 in 1949 and 5.39 in 1948, the quinquennial average being 5.62 per mille.

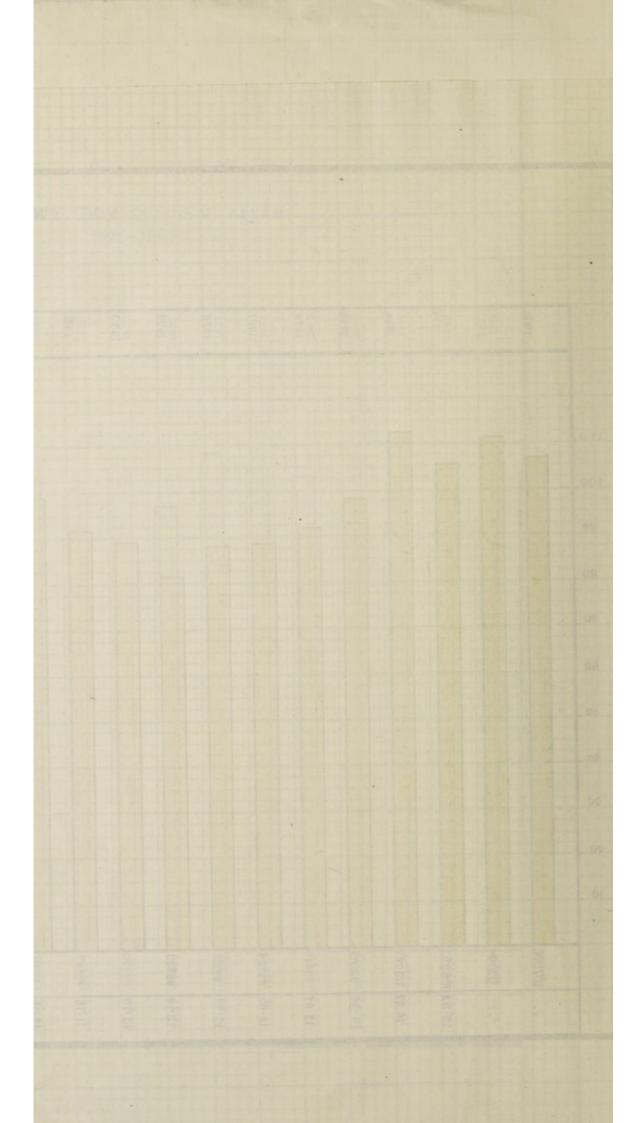












The following table shows the number of deaths and death-rates due to fevers in the plain districts in Assam for a period of five years from 1946 to 1950:-

	ate]	£	8.34	19-11	50 10 10	8-93	4-47	68-8	4.84		7-25	1
1946	Death-rate			-								1
-	1	(10)	5,346	12,588	5,084	7,306	3,535	10,228	4,771		48,858	180
	Number of mortality		- 15	-				-	*		-	1111
	7	6)	8.16	8-09	64 60 60	7.86	3.80	7.34	3-15		5.14	-
	Death-rate										=	THE STATE OF
1947	1	(8)	7,399	8,289	4,027	6,550	3,062	8,545	3,160		41,032	
	Number of mortality	Die Dr.								1	4	100
	Death-rate Number of mortality	3	6.35	8.21	1-88	8.38	3.92	6.11	3.45		5.28	
		1								STORE .		18
1948	Number of mortality	(9)	5,998	9,120	2,784	7,116	3,225	7,202	3,494		38,959	
	Num									-		100
	} .			_	0	_						
	Death-rate	: ©:	19.9	9.24	1-99	7.89	5.24	5.54	2.64	3	5.35	1
	ď											
1949	Number of mortality	:	15	08	66	11	-	01	2			16,6
	Numb	€	6,115	10,380	2,999	6,817	4,377	6,612	2,743		40,043	
	1									4		18
	rate	: 6	5.85	9.13	1-63	2-1-	60	4.3	94		96	
	Death-rate	(8)	is	6	÷	-1	4.09	5.43	2.94	100	2.06	
										-		
1950	ir.	50	5,465	10,387	2,499	6,825	3,481	6,631	3,114		102	
	Number of mortality	(3)	rę.	10,	61	· 6	8	6,	8	8	38,402	
										-	-	1
	-		:	: 0	: .	4:	: 0	:	: #		:	52
			:	:			:	:	:		:	
			18									
			:	:	:	92	:	:	: -		:	
	icts	(3)	:	: 1	: :	::	: 11	: [18		Total	
	Districts	0	:	:	:	:	:	:	:		1	
			:	1	:	:	:		:			
			-	100	1		I					
				ara	d.	80	Su	11	ındu			
			Cachar	Goalpara	Kamrup	Darrang	Newgong	Sibangar	Lakhimpur			

The highest death-rate was recorded in the district of Goalpara, and the lowest in the Kamrup district. Compared to the previous year, death rate from fevers has decreased very slightly during the year under review. Further there was no abnormal fluctuation in death-rates due to fevers in any of the districts during 1950 as compared to previous year's figures.

A statistical chart is appended below showing mortality from fevers in the State of Assam from 1921 to 1950,

14. Kala-azar.—The recrudescence of Kala-azar in the State of Assam started in the year 1937 with 1,057 deaths and 12,051 attacks and reached its peak of mortality in the year 1940 with a total of 1,594 deaths and 21,149 attacks. It appeared to be on the decline during the year under review.

	1950	(18)	1,106	1,081	171	1,117	2,113	1,416	*	9 :5	:	:	1,069		:	:	:	1	8,677
	1949	(11)	1,367	1,558	904	1,796	2,807	2,670	22	: 000	:	:	22	:	:	THE PERSON	:		11,957 8
	1948	(16)	1,678	2,121	1,607	2,526	3,488	2,842	6	:	:	:	1,677	:	:	Trans.	:		15,948
	1947	(15)	1,256	2,541	1,942	2,254	3,820	3,354	93	-	m	6	2,809	:	:	The state of the s	:		18,082
	1946	(14)	1,115	2,553 es	2,286	3,322	3,552	2,807	240	:	:	:	3,007	:	:		6,398		25,265
	1945	(13)	1,135	2,125	1,573	2,087	2,586	2,629	92	:	:	:	2,484	:	:		1954		19,256
6	1944	(12)	802	2,178	914	1,860	2,758	2,747	40		:	:	1,722	:	:	September 1	3,566		16,590
5 to 1950		(11)	935	2,639 2	90				20	7 :	:	62		:	:				
from 193	1942 1943	(10) (1			1,505	2,393	3,093	3 3,494					6 1,472	_			7 3,624		19,208
cases treated from 1935 to 1950)		9000000	963	3,314	1,338	2,599	2,774	3,643	15	11 11			1,496			Souther No.	3,887		20,033
	1941	(6)	1,024	2,761	1,215	1,128	3,593	2,640	12	:	:	60	1,259	:	:	:	2,830		16,470
(Table showing Kala-azar	1940	(8)	11 00	3,194	1,721	1,491	5,129	4,070	15	100	:	16	1,346	:8	:	60	3,386		21,149
showing	1939	(1)	699	2,989	1,138	861	3,875	3,315	15	:	:	47	808	:	;	10	4,029		17,756
(Table	1938	(9)	718	2,541	1,189	686	3,265	3,050	13		:	39	824	:	:	20	4,622		17,268
	1937	(5)	445	2,046	918	514	2,317	1,396	60	:	:	15	717	61	:	1	3,672		12,051
	1936	(9)	574	1,275	1,309	636	1,471	864	9	:	:	10	793	:	:	60	3,645		10,587
	1935	(3)	478	1,245	1,465	138	1,651	93 00	12	:	:	1	069	:	:	1	3,869		11,190
			1	:	:	:	:	:	:	otia	:	:	:	tier	tier	:	:	1	:
	Districts	(2)	Cachar	Goalpara	Kamrup	Darrang	Nowgong	6 Sibsagar	Lakhimpur	Khasi and Jaintia Hills.	Lushai Hills	Naga Hills	Garo Hills	Sadiya Frontier Tract.	Balipara Frontier Tract.	Manipur State	Sylhet		Total
		8	1 0	Ö	24	4 D	N N	6 Si	1 1	8 K	9 L	N 01	D II	12 Su	13 B	14 M	15 8)		

	1950	(18)	43	62	12	52	67	31	:	100	1		19	0:	:	:		346
	1 6761	(11)	3	80	39	130	18	57	-	:	:	:	83	:				466
			-	0.	44	68	-	96	1000	alin t			134	To an		diff.		645
	1948	(91)	57	120	or or		101		1000				1	3 86		550	DIAC	9
	1947	(12)	26	06	57	89	101	101	6	-	:	:	141	4	:	:		632
	1946	(14)	20	147	9	134	111	144	10	di le	THE TOTAL	ner or	136		ora i	220		1,048
	palite paradi,	sid)															Me n	1,
1950)	1945	(13)	10	18	99	150	80	34	37	mead lucyco	in the same	:	116	:	:	128	TO THE	634
935 to	1944	(113)	31	133	32	111	102	191	19		01		113	diffued of diffe		8	ALSIA.	198
rom 1		0															9 101	
-azar	1943	(11)	hou	90	19	195	152	76	60		-	1:0	11	6130		131		796
n Kala	1942	(10)	1	96	65	68	611	102	62		:	on mi	18	ed la	aneen de 24	154	ana.	101
hs fror	na k	(6)	ing habet	nit ite	i Bar		THE STATE OF	Soul Line	101 t	moni						10		A STATE
leat	1941	~	62	124	62	100	135	95	1773			o in	49	voile	:	115		714
ž.			300															
o Jo a	9	(8)	2	12101	69	=	-	22	65		69		0.			15		90
number of	1940	(8)	10	174	69	221	191	113	65	:		:	10	:	:	115		1,594
towing number of c	1939 1940	(7) (8)	un 60	205 174	69 85	181 221	170 161	553 773		12	6	:	47 70	:	:	152 115		1,396 1,594
le showing number of o	1939	3									6	:		:	:			1,396
(Table showing number of deaths from Kala-azar from 1935 to 1950)	1939				164 58		170			.:	6	:			:		all and a second	
(Table showing number of	1938 1939	(4) (4)	60	106 205	164 58	256 181	101 170	447 553		10	. 6		46 47		:	268 152	ale col	1,338 1,396
(Table showing number of	1939	3	60	205	164 58	181	170	65 10			6		47			152	all and a second a	1,396
(Table showing number of	1937 1938 1939	(5) (6) (7)	60	106 205	97 164 58	256 256 181	196 101 170	126 447 553	:	10			51 46 47		:	207 268 152		1,057 1,338 1,396
	1938 1939	(4) (4)	40 00	136 106 205	164 58	256 181	101 170	447 553		10			46 47		:	268 152		1,338 1,396
	1936 1937 1938 1939	(5) (6) (7)	40 00	136 106 205	97 164 58	256 256 181	196 101 170	126 447 553	:	10			51 46 47		:	207 268 152		1,057 1,338 1,396
	1936 1937 1938 1939	(4) (5) (6) (7)	40 00	84 136 106 205	61 97 164 58	155 256 256 181	121 196 101 170	99 126 447 553	:	10			47 51 46 47			173 207 268 152		845 753 1,057 1,338 1,396
	1935 1936 1937 1938 1939	(4) (5) (6) (7)	40 00	84 136 106 205	61 97 164 58	155 256 256 181	121 196 101 170	99 126 447 553	:	10 5 5			47 51 46 47			173 207 268 152		153 1,057 1,338 1,396
	1935 1936 1937 1938 1939	(4) (5) (6) (7)	60 60	100 84 136 106 205	61 97 164 58	155 256 256 181	52 121 196 101 170	101 99 126 447 553	:	10 5 5			58 47 51 46 47			173 207 268 152		845 753 1,057 1,338 1,396
	1936 1937 1938 1939	(3) (4) (5) (6) (7)	61 10	100 84 136 106 205	176 61 97 164 58	91 155 256 256 181	52 121 196 101 170	101 99 126 447 553	:	10 5 5			58 47 51 46 47			260 173 207 268 152		845 753 1,057 1,338 1,396
	1935 1936 1937 1938 1939	(3) (4) (5) (6) (7)	Cachar 7 2 4 5 8	84 136 106 205	61 97 164 58	155 256 256 181	121 196 101 170	99 126 447 553	:	10			58 47 51 46 47			173 207 268 152		845 753 1,057 1,338 1,396

The number of deaths from Kala-azar was slightly less than that of the preceding year. The number of patients treated was 8,677 during 1950 as compared to 11,957 during the previous year

The incidence of Kala-azar showed a definite downward trend during the year. This is mainly due to the vigorous efforts made to combat this deadly disease by the Public Health Department in Assam. The decrease in the number of cases treated was shared by all the districts. The method of diagnosis and treatment of Kala-azar was the same as in the previous years. Measures to combat the disease were both detection and proper treatment of cases. In all the Kala-azar infected areas, facilities for treatment exist. Not much survey work could be carried out during 1950 due to acute shortage "of doctors. Pentamidine Isethionate (M & B) of the aromatic diamidine group is also now used in addition to Urea Stibamine. It is pleasing to note that the campaign against Kala-azar continued with unabated vigour and with conspicuous success during the year under review.

Though the incidence of Kala-azar at present shows signs of decrease in the State as a whole, yet it appears to be still wide-spread in the Garo Hills. There are now fully equipped Kala-azar Hospital at Tura with 72 beds and 4 out-lying Public Health Department Dispensaries in the Garo Hills to fight with the disease. Further re-inforcement in the shape of two mobile units have recently been sanctioned by Government for detection and treatment of Kala-azar in the interior of the Garo Hills.

For efficient running of Kala-azar hospitals and the wards and also for comforts of the patients,

For efficient running of Mala-azar hospitals and the wards and also for comforts of the patients, sixteen nursing order ies have been provided in addition to the existing ward Assistants in the Hospitals.

Ever since the establishment of the Public Health Department dispensaries in the rural areas there was no provision for treatment of diseases other than Kala-azar, Malaria, Leprosy and Yaws. Since 1946, the Public Health Department Dispensaries had been equipped to treat all diseases and to perform minor operations. As a result the importance and popularity of the Public Health Department dispensaries have increased as they provide better medical aid in the rural areas. In appreciation of the services rendered by the rural Public Health Department dispensaries, there has been an increasing demand from the public for more Public Health Department dispensaries. the public for more Public Health Department dispensaries.

There were a few Kola-azar cases in the Sibsagar Subdivision who were resistant to the routine treatment of U. S. and P. I. The question of trying a more potent drug, viz., Hydroxystilbamidine Isethionate, a product of M/S. May and Baker, Ltd., not yet available in the Indian Market, in the treatment of the resistant Kala-azar cases has been under consideration.

There are seventy-six Public Health Department dispensaries (excluding Sub-Centres) and three indoor hospitals with accommodation of 136 beds in the State of Assam. Two Kala-azar wards, one at Sibsagar with 15 beds and another at Nazira with 10 beds in the Sibsagar district, were opened during the year under report for the treatment of bed-ridden and very complicated Kala-azar cases.

15. Smallpox.-A graph showing attacks and deaths from Smallpox during each week in the year 1950 is

appended.

A total of one hundred and ten cases of deaths from Smallpox was registered in the State of Assam during the year 1950 as compared to 117 deaths in the year 1949 and 334 deaths in 1948, yielding a deathrate of '01 per mille during the year under review. The quinquennial average is 314.

A chart attached herewith shows mortality from Smallpox in Assam from 1912 to 1950.

The following table shows the number of vaccinations performed by the districts during the year 1950 :--

No.	Districts	Primary including	secondary	Re-va	ecination	Total
	Districts	Successful	Total	Successful	Total	Total
1	2	3	4	5	6	- 3 7
1	Cachar	55,134	58,056	92,835	141,816	199,87
2	Goalpara	52,080	56,341	80,771	171,391	227,73
3_	Kamrup	49,256	60,391	37,361	89,178	149,56
4	Darrang	37,723	39,575	102,855	140,573	180,14
5	Nowgong	32,266	39,266	32,460	70,021	109,28
6	Sibsagar	37,254	43,117	38,635	68,131	111,24
7	Lakhimpur	36,480	39,267	26,827	73,713	112,98
8.	Khasi and Jaintia Hills	24,416	24,484	9,840	73,975	89,45
9	Garo Hills	8,430	9,847	4,737	7,760	17,60
10	Lushai Hills	5,368	6,669	1,839	4,209	10,87
11:	Naga Hills	7,412	8,579	2,879	5,014	14,93
12	Sadiya Frontier Tract	1,883	2,264	3,762	6,407	8,67

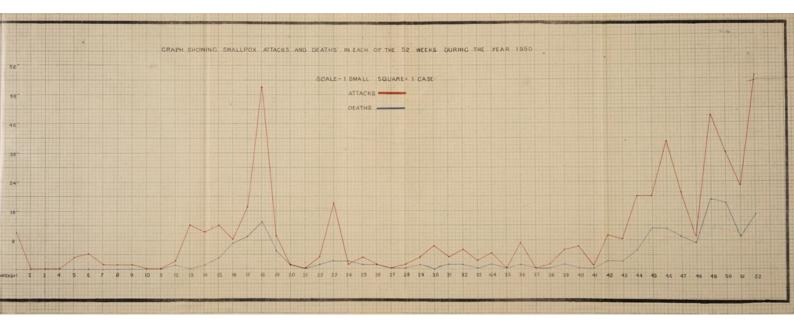
Preventive measures .- Vaccination and re-vaccination work were carried out by the Public Health Staff and also by local bodies.

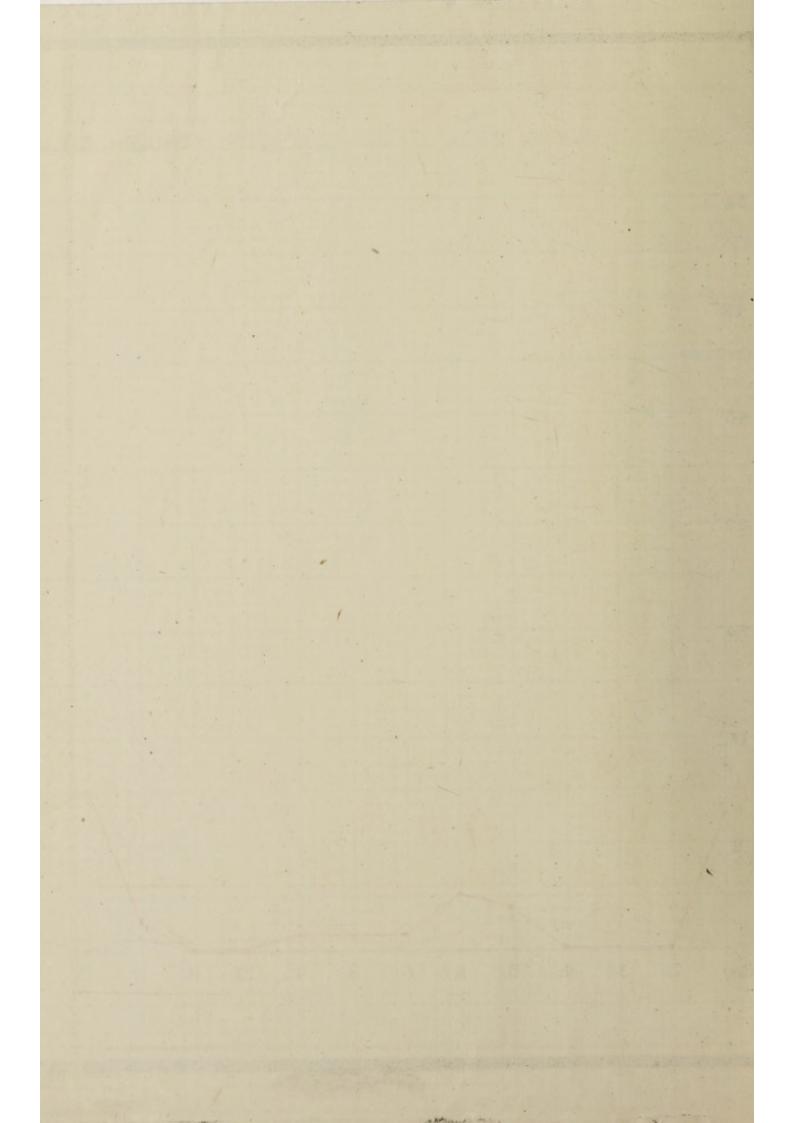
16. Cholera.-During the year under review, comparatively mild outbreaks of Cholera occurred in Kamrup, Goalpara, Nowgong, Sibsagar, Cachar and Garo Hills Districts. A total number of 1,869 deaths yielding a death-rate of '24 per mille, was recorded due to Cholera during 1950, as compared to 0'14 per mille in 1949. The quinquennial average death-rate due to Cholera is 15 per mille.

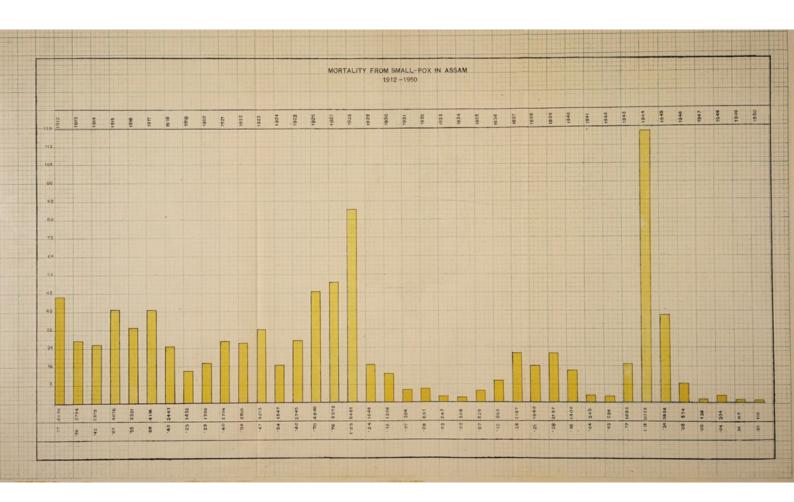
A chart appended herewith shows mortality from Cholera in the State of Assam from 1922 to 1950.

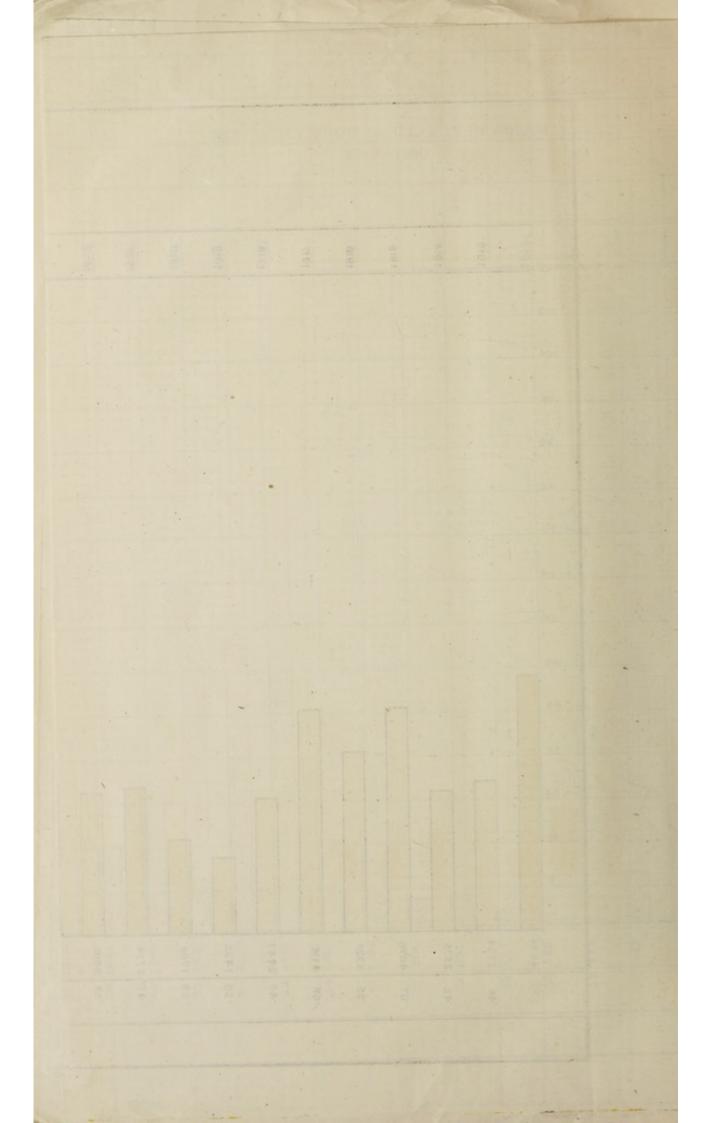
Since the year 1944, there has been a gradual decline in death-rates due to Cholera.

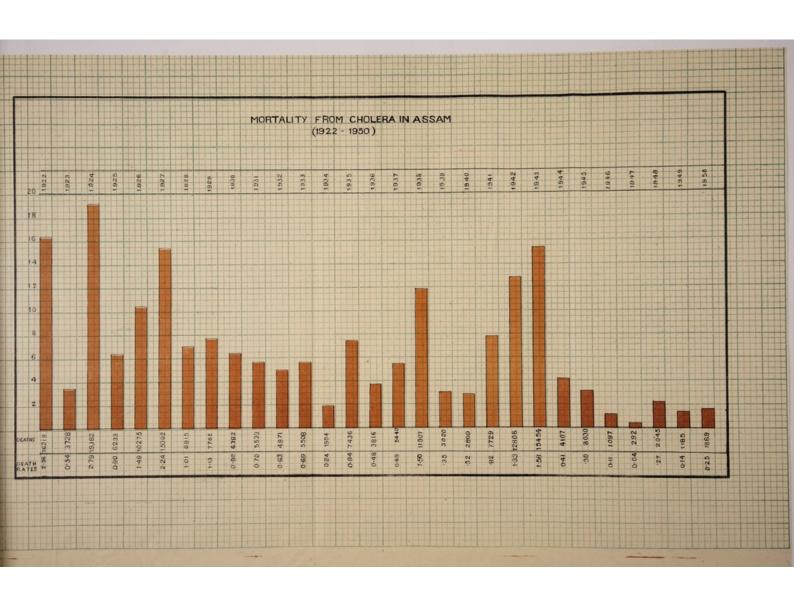
The districts of Garo Hills and Kamrup suffered most from Cholera during the year under report.

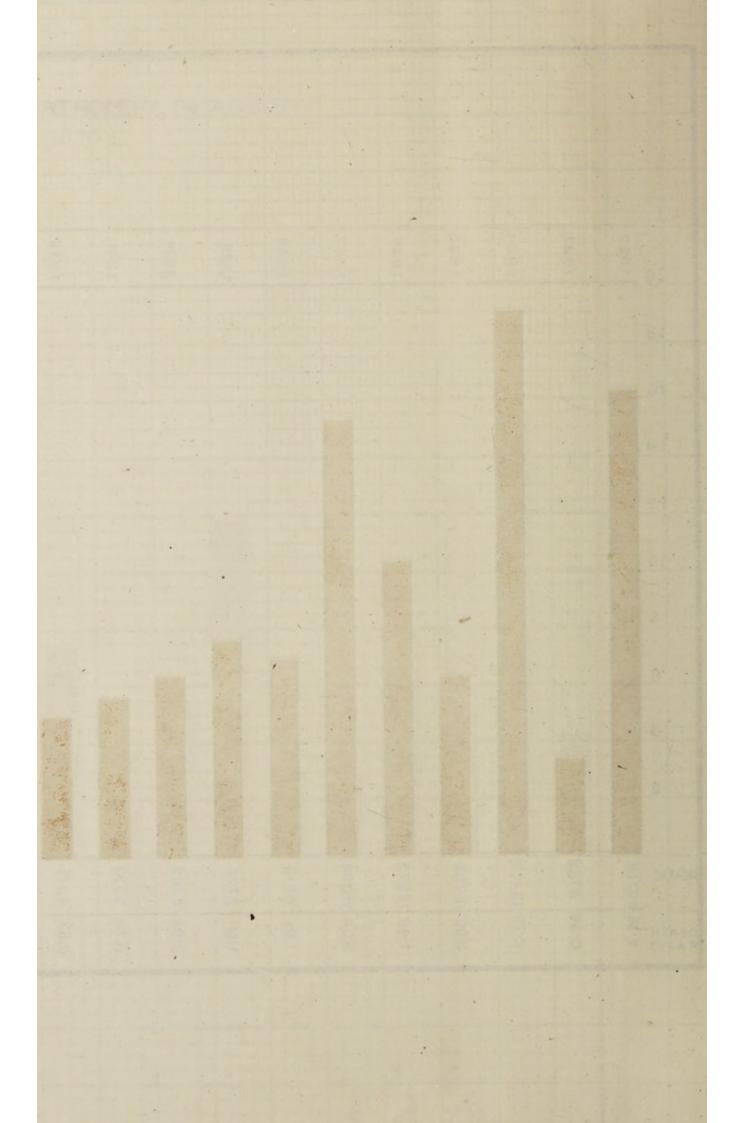


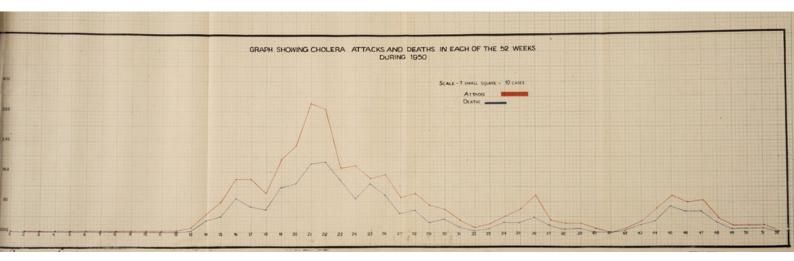


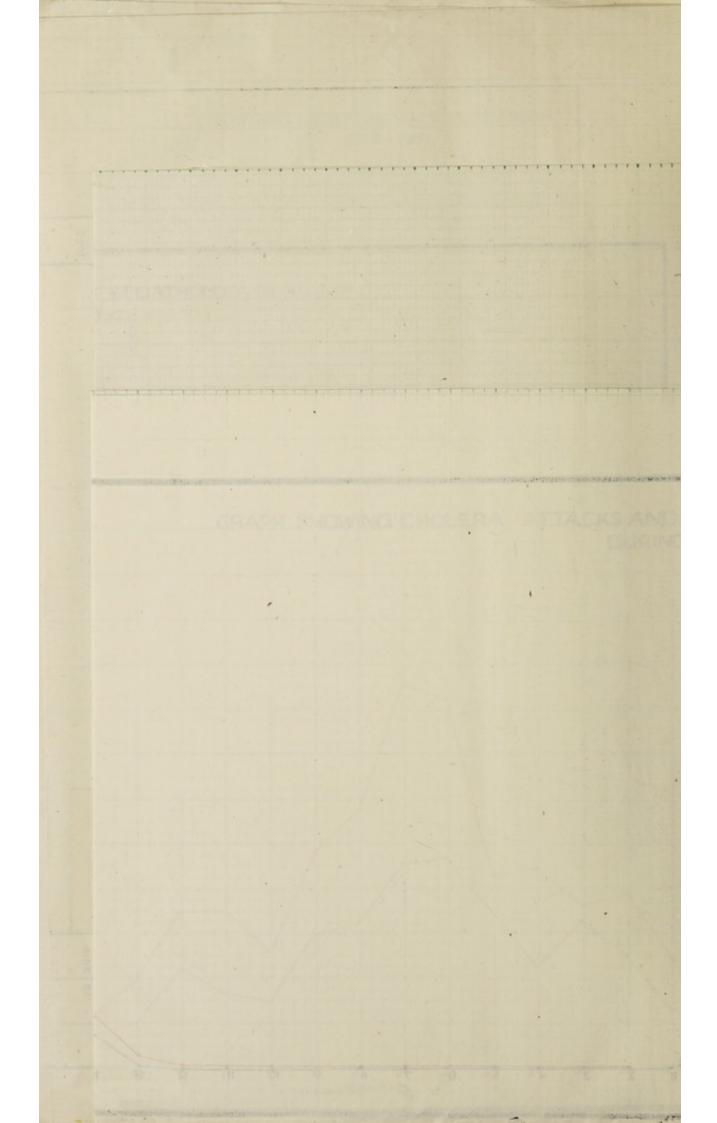












The number of deaths from Cholera during the last 5 years is as follows:-

1949		***	***	***		 	1,185
1948			***		***	 	2,049
1947		***		2111		 	308
1946	***			***		 	979
1945						 	2,045

Necessary preventive measures such as anti-cholera inoculation and disinfection of sources of drinking water-supply were carried out in the infected areas. Propaganda was also continued in order to educate the people in methods of prevention, and it is pleasing to note that Cholera inoculation is becoming more and more popular among the rural masses. A total number of 1,138,384 inoculations was performed during the year under review.

A graph showing attacks and deaths from Cholera during each week in the year 1950 is appended.

17. Plague. The State continued to remain free from Plague during the year under review.

18. Hook-worm.—Ankylostamiases (Hook-worm disease) is very common in the rural areas of the State. Although there is no assessment of the actual number of cases suffering from this disease, it is presumed that about 90 per cent. of the people of the State are infected with Hook-worm. This is mainly due to the lack of knowledge of the community as regards personal hygiene, pure food, sanitation, etc. It is for this reason that the morbidity rate is very high and the economic progress of the State has been deterred. All possible steps were taken for detection and treatment of the cases and also for prevention of the

All possible steps were taken for detection and treatment of the cases and also for prevention of the carrier hazard. Regular survey of Hook-worm cases was undertaken during the course of other surveys by the Public Health Department Assistant Surgeons II and the cases detected were brought under treatment. Health Propaganda was also carried out by them, establishing model villages whereever possible.

With a view to eradicate the disease, two mobile units, consisting of a Laboratory Assistant, a sweeper and two menials with necessary drugs and equipment for each unit were sanctioned by Government for five years in June 1950. Owing to dearth of qualified doctors and Laboratory Assistants there was some delay in starting the work. These units, conducted by qualified doctors, started work in the Kamrup and Sibsagar Districts.

Experience shows that it would not be possible for two units already sanctioned by Government to complete the work within five years in all the plains districts of the State as the duration of work in each area is about 3 months. Government were therefore moved for sanction of five more Mobile units with seven doctors and other staff.

19. Dysentery and Diarrhoea.—A total number of 5,056 deaths was registered in the State of Assam in 1950, due to Dysentery and Diarrhoea. The death-rate during 1950 comes to 58 per mille as compared to 82 per mille in 1949 and 5 in 1948, respectively. The total number of deaths registered due to Dysentery and Diarrhoea during the preceding five years is given below:—

Year							Number	of mortality due to Dysentery and Diarrhoca
1949							Larrand mol	6,246
1948	doen, pair	well a	T (T	1		60 .po se	r iba filiji, tim	4,136
1947	30 Thomas						Battle all	3,462
1946	Stiller bed	na chur					of Civil Hospi	6,781
1945			: *		oquii.	de Hilland	initalizadg or	8,856

The quinquennial average number of mortality of due to Dysentery and Diarrhoea is 5,896.

Seasonal variation in number of mortality due to Dysentery and Diorrhoea during 1950 as compared to the preceding year is shown in table below:—

Months									1950	1949
(1)	df 3								(2)	(3)
January		- vanlourd	m died	bronieri a	00			0 111	313	353
February	,		mA not				***		272	238
March				1000	1000		***		281	832
April		J at hall	dap test	********	pell and	10 61461	Same?	O Isalis	364	473
May		SHAME S	0 4.16						575	736
June		d Time can	Tol.	princh i	and cla	of least		***	587	707
July									621	755
TESY N		phub reques	I mi. ada	ab ege a	bus 140	01.10	02		426	526
Septemb	er			No. 13 con		undern o			408	430
October						Ch. però	d rates laid		467	403
Novemb		a wa moltia	og Isolos	odi lo in	ole not lie	t works !	Mon term	all oil to	408	426
Decemb		mark ad	el ber	1 5 to 1		months a	a street	18 -	334	367

A graph is appended showing the actual trend of mortality due to dysentery and diarrhoea during the year 1950 in the State. The trend of the graph shows that seasonal prevalence was rather usual as the highest number of deaths occurred in the hot months, i.e., in June and July.

Good water supply has become a vital problem specially in the rural areas. Even in urban areas water supply is not satisfactory in quality and in quantity. The Local Board tanks not maintained properly; these are not usually fenced and regularly cleared of weeds and dirts, and, as a result, occasional treatment with Bleaching powder proves to be of little use.

All possible necessary and prompt medical assistance were rendered to the sufferers with medicines like Sulphaguanidine, Thalazol, B'phage and other drugs, as and when necessary.

20. Eye complaints.—During the year under review a total number of 9,426 minor eye complaints was treated in all the dispensaries belonging to this Department in the State of Assam, as compared to 9,587 cases treated in 1949.

The table below shows the number of cases of minor eye complaints treated in Assam during the years 1950, 1949, 1948 and 1947.

Dist	ricts				1950	1949	1948	1947
(1)				(2)	(3)	(4)	(5)
Cachar				15.0	397	1,040	529	185
Goalpara				d 0	2,488	3,453	1,190	1,469
Kamrup	1704-100	allo	ni	20 STR	2,315	1,596	1,177	9
Darrang	344	1	nur dans		760	262	55	191
Nowgong		ariotoph !	ball leng	d baralib	1,969	1,622	1,260	879
Lakhimpur	Domoiton	vi.es		042.40T a	615	914	1,121	Nil
Garo Hills		Duran sol	parties a		663	529	187	253
Sibsagar	di iii ta	andin i	· ···		219	81		
					9,426	9,587	5,519	2,986
					7,420	7,501	0,017	2,70

"Assam Council on Blindness".—During the year 1947, a Council on Blindness was duly constituted to deal with the problem of blindness in the State of Assam. Though this Council is a private body, the expenditure is borne by Government. The main function of the Council is to advise Government for provision of further facilities for treatment for eye diseases.

The Council met for the fifth time on the 14th March, 1950. The following resolutions were unanimously passed:-

- Resolved that this Council recommends to Government the urgent need of establishing Eye
 Department of Civil Hospitals and that every effort should be made to find suitable experienced
 Eye Specialists to staff these Eye Departments and every encouragement should be given for the
 training of Eye Specialists to fill these important posts;
- Resolved that this Council recommends to Government to depute doctors for training in Opthalmology in the Assam Medical College, so as to extend facilities for specialists' service at the various hospitals at district and subdivisional headquarters stations, and
- Resolved that this Council recommends to Government for immediate establishment of School
 Health Officers with special Opthalmic qualifications with a view to conduct regular and periodical health examination of school students for early detection of defects and for their remedy.

As regards Resolution No.1 owing to paucity of Officers trained in Opthalmology it was not yet possible to appoint Honorary Medical Officers in all Hospitals. Government, however, accepted the recommendation to allow the Medical Officers to undergo training in Opthalmology at the Assam Medical College. Owing to financial stringency the scheme regarding establishment of School Health Service was abandoned. However, a modest scheme is under consideration of Government.

A senior District Medical Officer of Health of this Department was deputed to United Kingdom for higher training in Opthalmology during the year under review.

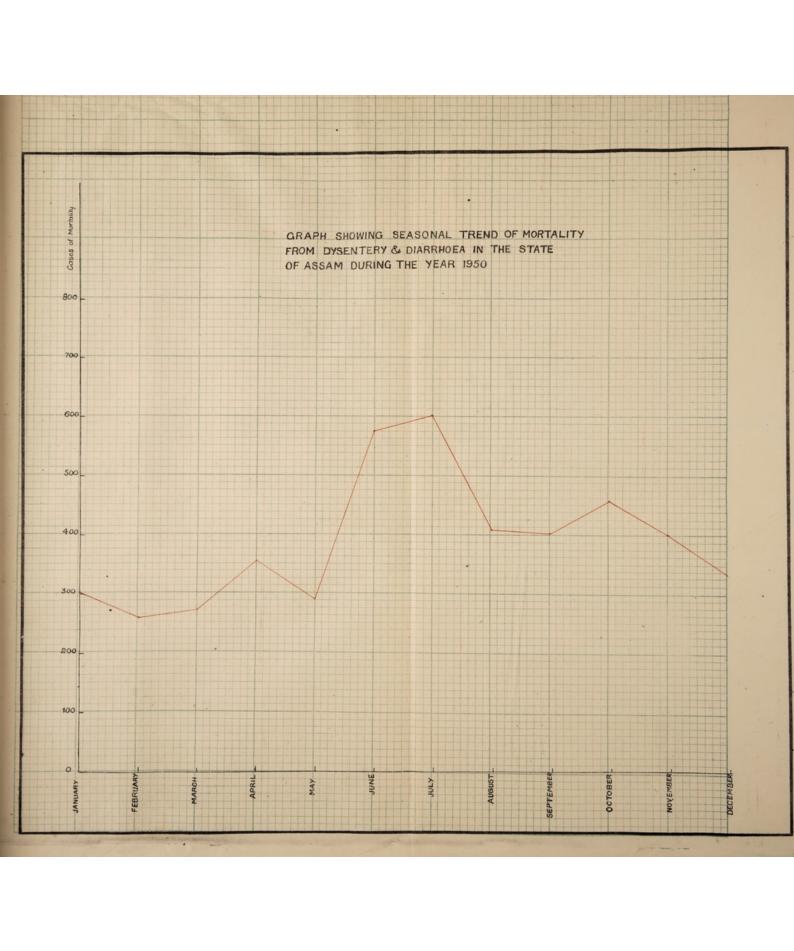
- 21. Taws.—Six hundred and fifty-three yaws cases were treated in the Public Health Department Dispensaries during the year 1950 as compared to 615 cases during 1949 and 706 cases in 1948. This disease was most prevalent only in the Goalpara district. But on the whole, it shows a downward trend in its incidence during the year under review.
- 22. Respiratory diseases.—There were 3,941 deaths due to this group of diseases during the year 1950 as compared to 3,919 deaths in 1949, 6,339 deaths in 1948 and 2,966 deaths in 1947 respectively. The quinquennial average number of deaths due to Respiratory diseases is 4,275.

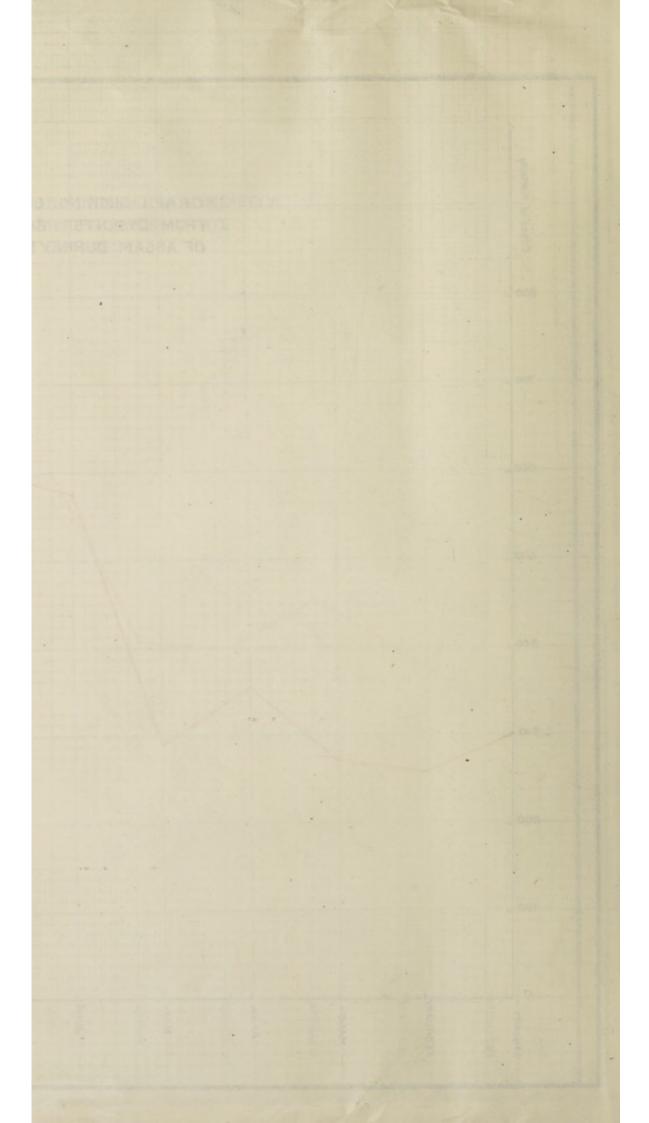
The mortality rate due to this group of diseases was '45 in 1950, 0.51 in 1949, 0.44 in 1948 and 0.41 per mille in 1947, the quinquennial rate being '43 per mille.

It may be noted that the figures noted above fall far short of the actual position as the causes of deaths were not correctly registered by the primary agents in the rural areas.

As a preventive measure B.C.G. vaccination campaign was started in the State since 10th October,

As a preventive measure B.C.G. vaccination campaign was started in the State since 10th October, 1949. Details of the work done during the year under review are given in Chapter XII.





- 23. Influenza.—A total of 266 deaths were reported as due to Influenza in 1950. The mortality from influenza is included under "Fever" but it is doubtful whether all the cases reported under this head are those of influenza.
- 24. Injuries and other causes.—A total number of 13,134 deaths was reported from injuries and 'other causes' in 1950. This includes 752 deaths due to injuries including suicide.

Deaths reported under 'other causes' were 12,382 during 1950 as compared to 15,527 in 1949 and 12,967 in 1948. Mortality under this head includes deaths from such diseases as diabeties, anaemia, cancer, senility, etc., as also all undiagnosed diseases which are not infrequently shown in vital statistical returns as deaths due to other causes.

- 25. Enteric fever.—The Enteric group of fevers accounted for 90 deaths in the year 1950. As Typhoid fever is only notifiable in Municipal areas, a large number of cases remain unaccounted for. Sibsagar district recorded the highest number of deaths (21) followed by Kamrup district which registered 14 deaths.
- 26. Leprosy.—Leprosy is indigenous in the State of Assam specially amongst the hill tribals. A total of 617 leprosy cases was treated at the Dispensaries of the Public Health Department as compared to 518 cases in 1949 and 411 cases in 1948. In addition to this, a total number of 1,922 cases against 1,828 in the previous year was treated in 44 leprosy clinics (including seven opened during the year) under the Public Health Department and Institutions under the Medical Department, Local Bodies and Missionary Societies. Hence, a total number of 2,539 leprosy cases were treated in 1950 as against 2,349 in 1949 and 1,944 cases in 1948 respectively.

As in the last year, ten Leprosy Asylums, Colonies and Clinics under the Medical Department continued to do good work. A brief note on these Asylums is given below:—

Serial Number	Name of Institution	Maintained by	Number of patients treated during the year	Remarks
1	2	3	4	5
1 volume	Santipara Leprosy Colony in the Goalpara District.	Missionary. Annual re- curring Government grant is Rs.14,130.	333 (both in-door and out-door).	Patients are engaged in the cultivation of paddy and vegetables. A school is also main- tained there by the authority.
2	Alipur Lesprosy Colony in the Cachar District.	Missionary. Annual recurring Government grant is Rs.1,500.	162 (both in-door and out-door).	Patients are engaged in handloom work and in cultivation of vege- tables.
3	Pasighat Leprosy Colony in the District of Sadi- ya.	Maintained by Govern- ment.	61	Patients are engaged in the cultivation of vegetables.
4	Barbheta Leprosy Colo- ny (JORHAT) in the Sibsagar District.	Missionary. Annual recurring Government grant is Rs.25,000.	(both in-door and out-door).	Patients are engaged in handloom work and in cultivation of vegetables. Two schools are also maintained by the authority.
5	Tura Leprosy Colony in the District of Garo Hills.	Maintained by Govern- ment.	140	Patients are engaged in cultivation and "jhum".
6	Maibong Leprosy Colony in the Cachar District.	Maintained by Govern- ment.	25	Patients are engaged in the cultivation of vegetables.
7	TRP. Memorial Leprosy Colony at Gauhati in the Kamrup District.	Maintained by Govern- ment.	203	Patients are engaged in handloom work.
8	Barpeta Leprosy Ayslum in the Kamrup District.	Maintained by Local Bodies with a recur- ring Government grant of Rs.2,000.	(both indoor and out-door.)	Nil.
9	Kohima Leprosy Asylum in the District of Naga Hills.	Maintained by Govern- ment.	Nil.	Nil.
10	Dhubri Leprosy Ward in the Goalpara District.	Maintained by Munici- pal Board with an annual Government grant of Rs.5,000.	(both in-door and out-door.)	Nil.

In addition to the recurring grants, the Alipur Colony, Dhubri Leprosy Ward and Santipara Leprosy Colony were in receipt of extra grant of Rs.1,080, Rs. h40 and Rs. 540 respectively, for the maintenance of leprosy patients.

As far as possible leprosy patients were isolated in the Colonies and Asylums. The State Government, Missionaries, 'Hind Kust Nivaran Sangh' formerly known as British Empire Leprosy Relief Association, took part in isolation work.

Statement and return showing number of leprosy cases treated in Clinics and Institutions under this Department during 1950 are given below:—

Statement showing the number of Leprosy cases treated in the Clinics and Institutions under the Public Health Department in the State of Assam for the year 1950

		Attenda	Sept.	dilash	i pilde	Clin	ics						
		and and				Case	15		orgal B	bos be	Total No. of	Total No. of	Total No. of
State	Number of of the	ai eli	Male			Female			ildren	G-	Leproma- tous		all cases
	Clinics	Lepro- matous	Neural	Total	Lepro- matous		Total	Lepro- matous		Total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Assam	44 (including out-centres)	106	275	381	37	128	165	13	58	71	156	461	617

N. B.—Children mean—from 1 to 14 years of age.
Clinics mean—Dispensaries and out-centres.
Institutions mean—Leper Colonies, Asylums and wards.

Return showing number of Leprosy cases treated in Clinics, Dispensaries and Institutions under the Public Health Department in the State of Assam for the year 1950

	Remain- imber of ing from Clinics the pre- vious year	ring the	Total number of cases treated during the year	Death	Cured	Relieved		Remain- ing at the end of the year	Remarks
(1)	(2) (3)	(4)	(5)	1(6)	(7)	(8)	(9)	(10)	(11)
	44 133 neluding nt-centres)	184 -	617	2	2	12	167	434	11.0

The Special Leprosy Officer carried out an extensive survey in seven villages. Propaganda work on leprosy was carried out as usual along with other Public Health activities in course of village visits by the Public Health Department staff. Leprosy pamphlets and posters in Assamese and English were freely distributed. The Special Leprosy Officer with the help of Secretary, Mikir Seva Kendra arranged construction of village segregation huts in the Saharijan area for fifteen infectious cases. These cases were isolated and brought under treatment at Sarihajan Leprosy Centre. A non-recurring grant of Rs.16,500 was allotted to the Secretary, Mikir Seva Kendra, Assam Branch, Sarihajan by Government for establishment of a small leprosy Colony at Sarihajan in the Sibsagar district. Approximately 150 acres of rent-free land have also been given by Government for the purpose. This social organisation is a branch of "Adimjati Adhibasi Sevak Sangh". One qualified Medical Officer was also appointed by the Mikir Seva Kendra and posted to this Leprosy Centre. One literate young Mikir (tribal) was trained in technique of leprosy treatment at Wardah Moha Rogi Seva Mandal for a period of three months at the cost of Mikir Seva Kendra and employed in the Sarihajan Leprosy Treatment Centre. One pucca leprosy injection shed was constructed at Batiamari in the Darrang district at a cost of Rs.5,300 and the expenditure was met from the Assam Branch Leprosy Relief Fund (Hind Kusht Nibaran Sangh).

Sulphone drugs which are reported to be more efficacious were introduced towards the end of the year under report in selected Public Health Department dispensaries where microscopes and compounders are available. The results received were encouraging. Owing to paucity of funds it is not possible to introduce treatment of leprosy cases by sulphone drugs in all Public Health Department dispensaries at present.

These drugs were also introduced in some Leprosy Colonies and Asylums.

Leprosarium in Assam.—It will be a boon for the people of Assam if plans are made and adequate funds allocated in the near future for the establishment of a model leprosarium in Assam on a long-term basis.

Shri T. N. Jagadisan, Organising Secretary, Central Hind Kustha Nibaran Sangha, visited Assam during March 1950 and gave certain valuable suggestions regarding leprosy problem in Assam.

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Fairs and Festivals

27. As usual, a large number of fairs and festivals were held in different parts of the State during the . The total number of major fairs observed during the year was seventeen. Of these, the under-noted important Melas are worth mentioning :--

Brahmaputra Snan at Dhubri and Mahamaya Mela at Bogribari in the Goalpara District, the Darranga Mela at the foot of the Bhutan Hills and the Ambubuchi Mela at Kamakhya Hill in the Kamrup district and Gandhi Mela, Sidheswar Baruni Mela and the Sibaratri Mela in the Bhuban Hill in the Cachar district, Bihu Utsob-both in the months of Bohag and Magh.

Sanitary arrangements during these fairs and festivals were provided as usual by the Public Health Department staff with the co-operation of the Mela and Local Authorities. Vaccination against smallpox, and anti-cholera inoculations were given to the congregating mass. No epidemic broke out in any such mela in any part of the State. For carrying out the requisite sanitary measures efficiently, most of the important festivals were notified for general information in the official Assam Gazette. To safeguard further the health of the pilgrims, the places en route to important festivals were also notified in the Assam Gazette. The Railway Authorities, the police, medical and other departments fully co-operated in the arrangements made at all the festival centres. Instructions were published in the Assam Gazette and in important local papers requesting all persons intending to attend big festivals and gatherings within or outside the State to take vaccination and anti-cholera inoculation beforehand. Certificates of vaccination and inoculation were issued to such persons. It is gratifying to note that during the year under review all the fairs and festivals passed off without any epidemics, due to precautionary measures taken by Public Health Department staff. Government may consider to provide brokested water-supply and efficient conservancy system on a permanent basis, at all the regular places of pilgrimage. Proper arrangement for safe, protected drinking water-supply, is prima facie a big problem to be dealt with in this report. Hitherto, whatever measures were taken or preparations made for the sanitation of the festival area, were entirely temporary even in the case of large festivals, expenses being borne mainly by the Local Boards and nothing by the festival authority. It is suggested that measures should be taken to provide permanent facilities for the accommodation of the pilgrims and for the sanitation of the festival centres. It is desireable that taking into consideration all the matters relating to a particular festival or mela by a pilgrim or festival committees, consisting of the representatives of the temple, the Local Board of the Government (Deputy Commissioner and Public Health Department), a scheme should be drawn up for each festival centre for the efficient conduct of the festival including the provision of permanent amenities for the pilgrims and for the improvement of the sanitary conditions to be carried out progressively from year to year. The financial implication including the cost of the scheme and the relative sum to be paid by the respective authorities, shall have to be determined and fixed by mutual consent. The execution of the scheme should be with the Public Health Department. From time to time, say at intervals of five years, the working of the scheme should be revised and necessary steps taken to ensure further progress. The experience gained in this way could be profitably applied to rural areas generally by adaptation to prevailing conditions.

CHAPTER V

Urban Sanitation and Water Supply

- 28. It is noted with regret, that in spite of periodical inspection of towns and recommendations made by the Public Health authorities, the sanitary conditions of all the towns remained almost the same as in the last year. Some towns, like Gauhati and Shillong even deteriorated in sanitary condition to a great extent during the year. There was no planned expansion and development of important towns during the year mainly due to non-availability of building materials and staff and on account of the rapid increase in population due to influx of refugees from East Pakistan and lack of funds.
- 29. Eighteen Municipal Boards and ten Town Committees functioned in the State. Of these, ten Municipalities were provided with Urban Health Officers from the Public Health Department. Owing to dearth of suitable candidates, the post of Urban Health Officer of the Gauhati Municipality remained vacant from the latter part of 1949. The work was, however, temporarily distributed among the conservancy staff of the Municipality and the Public Health Department doctors posted to Gauhati. The Shillong Municipality employs one medical graduate with public health qualification as Health Officer for the town. The Municipalities also employ sanitary and conservancy Inspectors, Vaccinators and other staff for the purpose of sanitary and health service work.
 - 30. Drainage.-There was no appreciable improvement during the year under review.
- 31. Conservancy.—The structural condition of public and private latrines showed no appreciable improvement and the system of collection and removal of night soil continued to be unsatisfactory. The trenching of night-soil was also not properly controlled.
- 32. Market and Slaughter houses. The arrangements for slaughter and sale of meat and fish continued to be unhygenic in most bazars and hats in the State.
- 33. Water-supply.- The general situation with regard to water supply showed little improvement in the State of Assam during the year under review. Only nine towns in the State (five in the plains districts and four in the hills districts) have piped water-supply and distribution systems. Some of these water-supply systems, e.g., those in Shillong, Haflong, Kohima and Tura do not require previous treatment of water, except chlorination during some parts of the year. In the towns of the plain districts, filteration and chlorination are done before distribution. Defects in water-supply in the towns of the plain districts are mainly due to old, inefficient machineries and distribution systems of inadequate capacity and to very poor finances of the Municipal Boards. In the bigger towns, e.g., Jorhat, Gauhati and Tezpur, the water-supply is quite unsatisfactory both in quality and quantity. In those Municipalities which do not have a piped watersupply system, water is obtained from reserved tanks, tube-wells, or shallow wells as the case may be.

 Even in the existing towns in the plains having piped water, the supply of water was 8 gallons per head

of the population per day. The inadequacy of the supply is more in the towns having no piped water-

supply but which have to depend on water from rivers, tanks, and wells.

In the hills towns, namely (a) Shillong, (b) Tura, (c) Kohima and (d) Haslong which have piped water, the quality of water is fairly satisfactory but the quantity is not adequate.

34. Adequate supply of good drinking water is a sine qua non for the preservation of the public health in towns. The water works must be improved and enlarged without the least possible delay in order to avoid much of the preventable loss of life and sickness due to water-borne diseases in the urban areas.

As usual, the Director and Assistant Directors of Public Health inspected the Municipalities and small towns and offered advice on health matters.

CHAPTER VI

Rural Sanitation

35. The responsibility for the sanitation in rural areas wherein about 97 per cent. of population reside, devolves upon the local boards authorities. It is a matter of great regret that the rural anitation in Assam remained primitive as before mainly due to vastness of the problem of the general ignorance of the priniciples of healthy living in the rural areas. Local bodies should pay special attention to the provision of adequate and safe water supplies, better housing condition and conservancy in villages. Until this is done no material reduction in the incidence of communicable diseases can be expected.

36. It may be noted that all the Public Health Department dispensaries are located in the rural areas

as detailed be	Distric	ets				r of existing treatment	Number of treatment centres to be opened shortly
	213111	(1)				(2)	(3)
Cachar						3	Control of the Control of the Control
Goalpara						9	a beg possible we would be
Kamrup		di mil				10	de yet visiters areast point per
Darrang						5 18	of the females levines on to
Nowgong Sibsagar		11122000		all solds	1 500 100	21**	to the second second break
Lakhimpur						7	o lunge de " de qui nearle
Garo Hills					all and the	5*	Acres of the 1 wines,
	4-1901		From	lopoul i q	otleska De	78	1 to relice to

^{**} Including one Kala-ajar Hospital.

The Public Health measures which are extensively carried out in the rural areas are protection against Cholera by inoculation, the use of bacteri-phage in the treatment of Cholera cases and protection against Small-pox by vaccination. Kala-azer treatment measures continued to be carried out on the same lines similar to those employed hitherto. Mepacrine tablets in packets for the treatment of Malaria were sold in all village post offices and through other accredited agents. Treatment of all diseases, particularly Yaws, Leprosy, Malaria, Influenza, Minor Eye complaints, Dysentery and Diarrhoea was also undertaken in the Public Health Department Dispensaries in the rural areas and minor operation were also conducted. Adulteration of food-stuff decreased as a result of the stricter enforcement of the Assam Pure Food Act. In this connection, it has to be mentioned that better results will be achieved if the local bodies, particularly the local boards, co-operate with the Public Health Department.

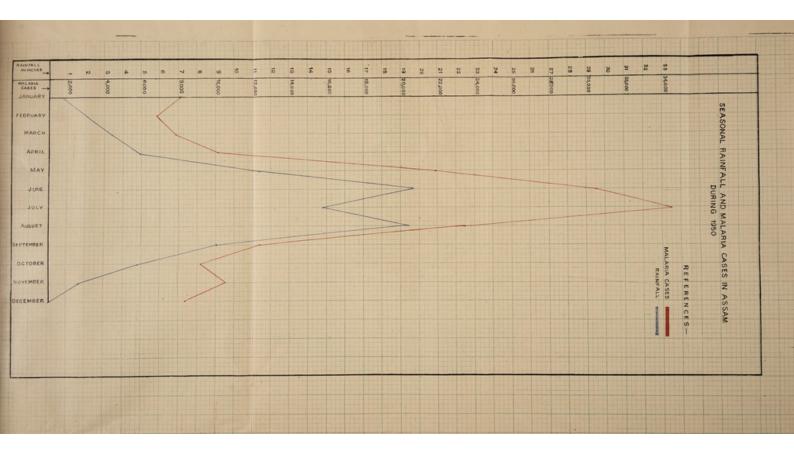
- 37. Water-supply in the rural areas is highly defective, poor in quality and in quantity. Sources of water-supply in the rural areas are streams, tanks, nullas, ring-wells and tube-wells. The village people do not keep these water-supplies free from pollution due to ignorance.
- 38. It is necessary that cheap bore-hole latrines in rural areas throughout the State should be constructed gradually. This would lead to a definite improvement in rural sanitation in general. There are 35,352 villages in Assam, and it would be a real boon to the villagers in Assam, if properly constructed wells for the villages are provided by the State Government.
- 39. The activities of the Public Health Department have been directed towards prevention of soil pollution and control of hook-worm infection. During the year under review, very little could be done as regards (a) prevention of soil pollution and (b) control of hook-worm infection owing to limited funds and paucity of qualified staff.

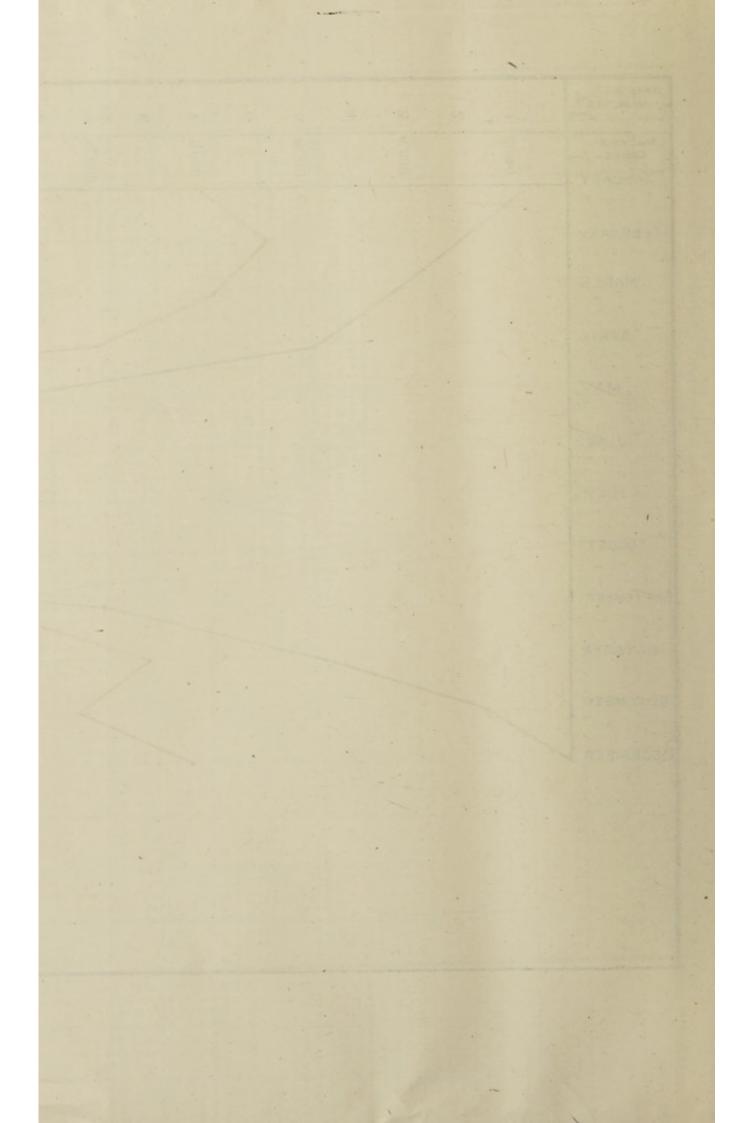
CHAPTER VII

Malaria

- 40. It is an admitted fact that the most common and ubiquitous menace to life and health is Malaria, which, while the toll it noticeably levies upon life may not be so striking as that taken by the diseases with a more rapid climax and more visible physical results, gradually saps the energy and economic power of the people as a whole, more than any other disease. Public attention all over the world has recently been drawn to the possibilities of combating malaria on scientific lines adapted to local condition. In the State of Assam, Malaria is responssible for a very large percentage of morbidity and mortality under "Fevers". It has been estimated that out of 8 million deaths from all causes in India, about 2 millions are due to malaria alone. During the year 1950, in the State of Assam, a total number of 5,202 deaths (2,689 males and 2,513 females) was recorded as due to Malaria alone. A total of 179,932 malaria cases was treated in the hospitals and dispensaries in Assam during the year.
- 41. Rainfall and Malaria.—Graph 'M' illustrates the relationship between rainfall and malaria in the State of Assam during all the twelve months of the year 1950. The malaria season bears a direct relation to rainfall. With the increase of the rainfall, there is a definite increase in the incidence of malarial fevers also.

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An account of the work done by the Malaria Section of the Public Health Department during the year under review is given below:

Malaria Survey .- Malaria Surveys were carried out at Khanapara Cattle Breeding Farm and Khanapara Agricultural School area in the District of Kamrup. Rapid Malaria survey of Pynthorumkhrah and adjacent villages was also carried out. Prophylactic treatment with Paludrine tablets was carried out at Pynthorumkrah and adjacent villages as an interim measure.

Training Classes .- One Training Class for training Malaria Inspectors was held during the year under review. Fourteen candidates were selected but only 7 turned up and 4 passed the examination after the

Anti-Malaria projects opened .- Anti-malaria projects were opened at Shella and Saiden in the United Khasi and Jaintia Hills District and Diphu in the Mikir Hills District. This brings the total of antimalaria projects to 31.

Permanent Measures.—The permanent measures except the sluice gates at Pasighat, are working satisfactorily. Damage was done in the sluice gates at Pasighat by earthquake and flood. Spraying of DDT has been introduced and will be continued until the sluice gates are repaired. Slight damage has been done to the automatic syphon, sluice gates, pucca drain and subsoil drains at Nongpoh. The subsoil drains have been repaired and the other will be repaired soon.

Construction of a system of drains and sluice gates in the Pynthorumkhrah Valley in Shillong was in progress.

Routine and Laboratory work.—Five thousand six hundred and thirty-tour anopheline larvae of 22 different species and 1,421 anopheline adults of 14 different species were identified. Four hundred and fifty-eight anopheline mosquitoes were dissected out of which none was found infected. Out of 1,532 and 148 blood smears examined in controlled and comparison areas, 110 and 50 or 7.2 per cent. and 33.7 per cent. respectively showed parasites. Out of 4,737 and 1,262 children examined for enlargement of spleen in controlled and comparison areas, 593 and 440 or 12.5 per cent. and 34.8 per cent. respectively were found with enlarged

Spraying of Refugees Camps with DDT was carried out at Shillong, Dawki, Karimgani, Silchar, Nownong, Rupshi by the Public Health Department staff.

DDT emulsion and suspension was prepared in the laboratory and was supplied to the projects and earthquake and flood-affected areas.

Sale of Quinine and Quinine substitutes.—The Provincial Public Health Laboratory continued to work as the Provincial Quinine Depôt for the sale and distribution of anti-malarial drugs under the controlled scheme. The following quantities of drugs were sold and distributed during the year 1950:-

		Articles [1]					Quanti [2]	ty
(a)	Quinine sulph powde	r and tabl	ets		B	± =	3,534	Ibs.
(b)	Quinine Ampoules (co	ontained (amps. in	each bo	x)		8,796	boxes.
(c)	Chinchona Febrifuge	powder ar	nd tablets				1,231	Ibs.
(d)	Mepacrine tablets						215,500	tabs.
(e)	Paludrine tablets						2,582,000	tabs.
(f)	Tota quina powder				E		28	lbs.

This Laboratory continued to prepare Mepacrine treatment packets and supplied the same to all the post offices in Assam for the purpose of sale to the public. These were supplied in boxes containing 20 treatments; each treatment containing 15 tablets of Mepacrine. Altogether, 12,700 treatment packets were sold during the year under review as compared to 12,661 packets in 1949 and 19,630 packets in 1948. This shows that Mepacrine is not gaining appreciable popularity in the rural areas. Permanent advance accounts, as usual, had to be maintained in each of the Post Offices relating to sale of this anti-malarial drug.

42. A statement showing the total quantity of quinine, Mepacrine and Chinchona Febrifuge powder supplied to each class of consumers in Assam during 1950 is appended below.

43. Another statement showing the number of Mepacrine parcels supplied to each of the districts of Assam during 1950 is furnished below.

Statement showing the number of Mepacrine parcels supplied to each District of the State during

			the year	IL 1390				
Sl. No.	Name of	the District	1 1		: - :		1	No. of boxes (contain- ing 20 treatments packets in each)
1 2	Cachar Khasi and Jaintia	Hills	 :		::	8		114 45
3	Goalpara		 	***				93
5	Kamrup Darrang		 	:				129 21
6	Nowgong		 	1 7				22
7 8	Sibsagar Lakhimpur		 					145
9	Naga Hills		 0	99				17
10	Lushai Hills		 1		F T	F 3		25
11	North-East Fronti Retail	er Province	 E			9		18 46
			1 Days	Total	1	18		635

Statement showing the Total Quantity of Quiniue, Megacrine and Cinchona febrifuge supplied to each class of Consumers in the State during the year 1950-

year

Number of parcels		[11]	ring	Depa	L olt	124	83	Soft Char	1 no	do de	236	13 M	33	125	312	38		ount of the Sang	1,192	1
Quine Hyaro-	powder	[11]	Lb. Oz.	ine to	sovr in bossoo	inh 1	ecd onn q	toice ha: in red u	ASTITUTE OF THE PROPERTY OF TH	men integral	0 #	Programme in the contract of t	t en d	1 11	By h	O Colo			41b.	DE TO
		[10]	Lb. Oz.	2 0	1 :		L:			:					:	4110			2 0	A III
otal Quinine		[6]	Lb. Oz.	T:	ide in	3 4	12 0	:	:	:	13 0		:	:	:				4 85	1
Quinine Ampoule Boxes (6 Amps. Total Quinine Quine Dhy- in each box 6 gr. nowder dro powder	in 1 c.c.	181	Boxes	6,766	338	296	27B-3 Amp.	306		20	112B-2 Amp.	230	502			164			8,795-5	
	Powder	[1]	Lb. Oz.	i Kar	inch indi,	193 8	117 4	28 0	52 0	0 01	632 8	22 0	0 11	0 111	:	2 0			1,201 4	100
Cinchona	Tablets	[6]	Lb. Oz.	alinn	on 10	14.1	3 0		3 0	rdi :	1 0	usqu :		60					8 9	-
a droed	Powder	[5]	Lb. Oz.	756 0	126 0	336 8	174 0	114 0	127 0	12 0	823 1	308 8	42 8	365 8	:	53. 0			80 80 80 80 80 80 80 80 80 80 80 80 80 8	201
Quinine	Tablets	[4]	Lb. Oz.	0 -	8 0	58 12	:	\$ 12	15 0	2 0	14 8	23	17 0	154 8	noise more	0 8			300 8	
Paludrine	Lablets	[3]		:	:	585,000	115,800	641,000	:	:	443,500	:	196,000	468,700	:	132,000			2.582.000	
Mepacrine	tablets	[2]		beite send minute m 0	ique la di l	oliqui de de	Den Total	in di	1		100	No.	25,000	112	190,500	diamination of the second			915.500	
				r members	bou	outro polyl	polici					1 04	late late		:			Cran	icol, ho	din.
				of guisn go	id it:		Dail	19:	eds.		e de la	-	old l	wolo	die	en se			1	nesel.
				up, Shillor	:	:	:	:	:	:	:	:	:	ralet :	:				1	
Consimers				amerce Gro		:	:	:	:	a Estate	:	:	:	nies	lini	nin.				
Name of constructs	-	[1]		ng and Con		maries	hispensaries	tment	pensaries	er than Te	:	:	mic Areas	t Dispensa	:	:				
- 22				ry, Plantic	ardens	and Disper	Desidised D	ent Depar	ls and Dis	abour Oth	spensaries	:	n in Epide	Departmen			17 10			
81 · 81 · 81 · 81 · 81 · 81 · 81 · 81 ·				Political Secretary, Planting and Commerce Group, Shillong using for members	Gardens. Non-member Gardens	State Hospitals and Dispensaries	Government Subsidised Dispensaries	Other Government Department	Private Hospitals and Dispensaries	Employees of Labour Other than Tea Estate	Local Board Dispensaries	Agents	Free Distribution in Epidemic Areas	Public Health Department Dispensaries	Post Offices	Refugee Camps				
				Polit	Non	State	Gow	Oth	Priv	Emp	Loc	Age	Free	Pub	Post	Refi				

44. The summary of progress of work done by the Malaria Section is given in the table below showing spleen rate, parasite rate and infant index during the year 1950 :- Before control

asures	Infant	(%)	(22)	Not done.	36.3 per cent.	Not done.	2	:	33.3 per cent.	Not donc.	2	:	37'5 per cent.	47'41 per cent.	N ot done,	:		50.0 per cent.	:
Before control measures were adopted	Parasite rate	(%)	(21)	Not done.	97.9 per 35:2 per oent. cent.	26'5 per 34'2 per cent. cent.	Not	done.	34'4 per cent.	25-7 per cent.	Not done.	14'8 per cent.	17:32 per	Not ne.	45.2 per 26.7 per cent. cent.	61-7 per 53-35 per cent. cent.	Not	50.3 per cent.	Pariety or the last
Before	Spleen	(%)	(30)	40.8 per cent.	97.9 per cent.	26'S per cent.	85.5 per	90.0 per	71-5 per 34-4 per 33-3 per cent. cent. cent.	\$1.5 per cent.	80.0 per cent.	21.6 per 14.8 per cent. cent.	19:31 per 37:32 per 37:5 per cent.	29.9 per No cent. done.	45.2 per cent.	61-7 per cent.	31.5 per	14.4 per 50.3 per 50.0 per cent, cent, cent.	· Some
	12	P. C.	(61)	Not done.	2	2.	2	:		2	=		:	4		4		4 14	
	Comparison area	No. positive	(18)	Not done.	2	2	2	*		2		2		2	2	:		:	
Parasite rate	Com	Total exa- mined	(11)	Not done.		=		2		2	"	:	2	2		2	2	1	2
Parasi	8	P.C.	(91)	Not done.	2	2		2			:	:	2		·	2	2	2	2
	Controlled area	No. positive	(15)	Not done.	:	2		:	2			=	:	.2		:	2	N	2
	Con	Total exa- mined	(14)	Not done.		2	**	=				2	:	2	2	:		00	2
	9	P. C.	(13)	20.0	20.0	4.4.4	75.0	20-0	Not done.	28.5	0.09	64 60 60	50.00	Not done.	20.0	Not done.	25.0	Not donc.	2
	Comparison area	No. positive	(12)	1	9	60	65	04	Not dene.	61	9	01	e1	Not done.	•	Not done.	1	Not done.	2
X	Comp	Total exa- mined	(11)	14	12	18	*	*	Not done.	[10	2	2	Not done,	60	Not done.	*	Not done.	2
Infant index	arca	P. C.	(10)	9.91	0-0	60	18.2	18-18	25*0	0.0	28-5	0.0	H	36.6	0-0	25.0	0.0	0.0	Not
ii ii	Controlled area	No. positive	(6)	64	E	-	65	64	-	N	01	EN.	-	*	Z	e1	Ē.	E	Not done.
	8	Total exa- mined	(8)	12	12	11	16	=	*	9	7	12	6	=	9	60	9	60	Not done.
	nres	(%) P. C.	(E)	39-21	0.69	43.4	87.2	20.0	Not done,	8-27	62-5	14.28	27-7	Not done.	20-0	Not done.	33.0	Not done.	2
rate	Comparison area	No. positive	(9)	20	30	20	14	14	Not done.	65	155	7	10	Not done.	so.	Not done.	10	Not donc.	2
Spleen rate	Com	Total exa- mined	(5)	51	29	94	16	20	Not done,	37	90	82	18	Not done.	10	Not done.	15	Not done.	2
	anca	No. (%) pesitive P. C.	(4)	10-0	60.6	2.57	30.2	44.56	44.4	3.4	27.7	\$8 4	0-0	27-7	25.0	15.6	0-0	61	33.6
	Controlled area		(3)	9	т	-	22	22.7	12	-	00	-	E	10	64	us.	EN.	=	60
		Total exa- mined	(2)	99 :	.: 33	: 4	78	. 61	. 27	8	. 29	23	. 27	. 36	80	. 32	. 25	466	. 95
					:	:	:					:	:	:	:	:	:	:	:
	sjects		3	:		:			:										
	Names of Projects			:			:	:				· Parent				:	:		
	Nam									galdai	da .	ati			apabar .			m Tea E	m village
				1. Tura	2. Gossaigaon	3. Lakhipur	4. Kachugaon	5. Haltugaon	6. Raimona	7. Mangaldai	8. Tangla	9. Gauhati	10. Azara	11. Diphu	12. Rangapahar	13. Dimapur	14. Haflong	15. Halem Tea Estate	16. Halem villages

Before control measured		(%) (%) (%) Spleen Parasite Infant rate rate index	(20) (21) (22)	31.6 per 46.4 per Not cent. cent. done.	25.1 per 20.5 per 19.6 per cent. cent. cent.	32.5 per 35.5 per Not cent. cent. done.	33'6 per Not ", cent. done.	47.8 per 41.5 per 42.3 per cent. cent. cent.	15-6 per Not Not cent, done, done,	Jes Jeso Jeso	ent, cent.		90'6 per Not .,	90	cent. cent done.	cent. cent.	i.	56-5 per 40-0 per 33-6 per cent. cent. cent.	50-8 per 16-7 per Not cent. cent. done.	ent. done.	:	It is a carpy neward
8		P. C. 8	(19)		23	32		. 42	سيّ	Ţ.,				36	1		195		1			
	Comparison area	No. (Not P		. :						27		211			Surveyed in August		:	The second	:	0 - 0
2	Compari		(18)	Not P					: :					2	:	:	Surveye					
Parasise rate		C. exa-	(10) (11)	5.2 do	9-8	0-0	ot ne.		10.0	Not done.	3.4	ot se.	2.0	Not done.	25.0	D. CT.	done.	Not done.			1.0	1000
Par	d area	P. C.	(15)	1		NB	e. done.	1	01		30	c. done.	-			, 2	. P	Z-S			85	
	Controlled area	Nu. positive	0	19	10.30	23	Not done.	= "	20	Not done.	983	Not done.	20	e. done.		III Not	ъ.	Not			1,213	-
	0	Total exa- mined					Not done.	2		Z op	6 6.5	Not done.		o Not		N	done.	Not	2		33-7 1,	
	irea	S. J.	(13)	10-0	20.0	Not		2	20-0	Not done.		Not done.	1 100-0	100.0	- 1	done.	:	: :	:		50 33	
	Comparison area	No. positive		1	-	Not	,	1	-	Not done.		Not done.		-		Not done.			:			
adex	Comp	Total exa-	(11)	10	61	Not	a and		L/S	Not done.	34	Not done.	-	-	Not done.	Not done.	r		:	2 2 2	148	-
Infant index		(%) (%)	(01)	0-0	4.1	0.0	0.0	Not done.	0.0	10.5	0.0	Not done.	10.0	0.0	0.0	20.0	done.	Not	dome.	B	1.8	-
	Comptrolled	No. position	(6)	E	-	N	- ER	Not done.	N.	61	EN	Not done.	01	E	E	-	done.	Not	done.		255	
	Com	Total exa-	(8)	0	12	*	0	Not done.	60	19	62	Not done.	20	-	04		done.		done.		319	-
	}	1	3	41.3	51.5	65-54	Not		62.4	9.6	9-84	\$1.4 d	25.7	85-7	6-92			done.	2		34.8	-
	Comparison area	No. (%) positive P. C.	(9)		18	120	Not A		40	10	31	52	18	00	10	Not done. do	10	done. d		0	440	-
	Compari	1	(5)	133	158	13			2	89	315	3	23	11	13	Not Not do				nuit	1,262	
Spices rate	1	Total.			4.5	27.8	26.8 Not	12-1	00 64	1-1	2.6	34:1	40-2	9-09	9.89			44		m o s	12.5 1	9
Spi	arca	P.%)	(9)		16 4	37 27	21	21	m	61	-12	67 3	9 99	29 6	17 5			- 4	ô	Antimosquito	593 1	
	Controlled	No. positive	(3)						10	1				48	29	00 04		No			100	1
	00	Total	mined (2)		349	133	64 00	12	105	1111	1,364	196	951	1:	::		467	. Not	done.		4.737	
	078			:			:	:	: "		:::	8.	*						:			
		5		:	:				-			1	:	-	:	tion	-	: :			Total	Ocas
		of Projec	1	3 :	:		lages	:	:	:	:	:	:	-:	37	a Planta		: :	:		: -	
		Names of Projects		himpur			up of vil	ghat	:	:		1:	7:			Cinchon	:	sun	:		:	
				17. North Lakhimpur	18. Sadiya	19 Pasiehat	20. Balek group of villages	21. Saikhowaghat	22. Charduar	Lokra	23. Shillong	24. Shella	25. Nongpoh	26. Saiden	27. Burnihat	28. Borlong Cinchona Plantation	29. Tezpur	30. Khanapara	32. Nowgong		ss. Jornat	
				11. N	18. S	0	20. B	21. 8	H.		23. S	24. 5	25.	26.	27.	28. 1	28.	30. 1	65	:		

N.B.-The spleen rate, parasite rate and infant index for year 1949 could not be furnished as the assessment of the progress of work could not be done due to the shortage of staff.

45. Anti-malaria measures in Railway Stations.—The anti-malarial and anti-larval measures were taken in the following Railway Stations belonging to Assam Railway by the Railway staff doctors:—

Pandu, Gauhati, Jagi Road, Chaparmukh, Lumding, Mariani, Tinsukia, Badarpur, Amingaon, Rangiya, Majbat, Tangla and Bongaigaon.

Suppressive Treatment with Paludrine against Malaria was also carried out from May to November as prophylactic measures in 119 Railway Stations.

CHAPTER VIII

School Hygiene and Medical Inspection of School Children

- 46. As in the previous year, no systematic medical inspection of Schools and Colleges could be carried out as there was no cadre of school health officers. As usual, schools were visited and children inspected as far as practicable by their Public Health Department staff during the course of their routine work. Very little time was available for routine medical inspection.
- 47. In Assam there is no cadre of school health services. The State Government may consider to create such a cadre as and when financial condition of the State permits.

The duties to be performed by a School Health Service fall broadly into two groups :-

- A. Health measures, preventive and curative which include (i) the detection and treatment of defects, and (ii) the creation and maintenance of a hygienic environment in and around the Schools and Colleges, and
- B. Measures for promoting positive health which should include (i) the provision of supplementary food to improve the nutritional state of the child, (ii) physical culture through games, sports and gymnastic exercises and through corporate recreational activities, and (iii) health education through formal instruction and the practice of hygenic modes of life.
- 48. During the year under review the number of educational institutions in the State of Assam was 10,360 and the number of pupils therein was about 6,71,295. The volume of work which would be required on school hygiene can be estimated from the above figures.
- 49. Preliminary instruction in elementary hygiene and sanitation was imparted both in primary and secondary schools. Moreover, lectures and talks on health, hygiene and physical welfare were given to the school children by the inspecting staff of the Public Health Department staff in course of their routine tours.

CHAPTER IX

Public Health Propaganda and Publicity

- 50. Regular and Scientific propaganda on health matters is an indispensable factor for the progress and prosperity of a nation. During the year under review regular health propaganda with the aid of magic lanterns and slides was undertaken in the State. The number of Magic Lantern Operators was increased from 7 permanent posts to 9 permanent posts and 1 temporary post. These Magic Lantern Operators visited the villages in their respective areas at intervals and demonstrated the slides on different infectious disease, hygiene and sanitation and the matters were explained by the Assistant Surgeon II of the nearest Dispensary. Besides, pamphlets, leaflet and other literatures published by this Department, literatures purchased from local authors were also distributed free among the mass people in order to arouse health consciousness in them. The health journal, "Swasthya Pradip" published from Gauhati in Assamese, is also being subscribed by this Department and distributed to certain village libraries as far as resources permit. Advantages of fairs, melas, festivals, etc., were taken and the Public Health Department participated in such occasions annually. The most prominent of such occasions in which this Department took a very active part are (1) the annual conference of the Assam Janaswathya Parishad in December 1949 at Gauhati, (2) the World Health Day observed in Shillong on the 7th April 1950 and (3) the Annual Provincial Conference of the Assam Branch I. M. L. Assam held in October 1950 at Jorhat. In all these occasions there were health exhibitions including maternity and child health section organised by this Department.
- 51. Further talkie films on health matters were occasionally obtained from the Indian Red Cross Society, Delhi and shown to the public free in different cinema Halls. Health pictures (movie-talkies and silent) were also shown free to the student community in all the local Educational institutions of Shillong in 1949 through the help of the Assam Publicity Department. There was appreciation from all quarters.

In view of the above, a self-contained propaganda and Publicity Section with staff, materials and equipment for audio-visual propaganda in the Public Health Department, Assam is of immediate importance for awakening Health consciousness among the illiterate people in the interior.

A modest scheme for creation of a Public Health Propaganda Section to be supervised by a Special Medical man in co-operation with the Publicity and Social Education Department in the Public Health Department was originally sponsored in November 1948, but was not accepted by Government owing to paucity of funds.

CHAPTER X

Public Health Administration

- 52. Acute shortage of qualified doctors, Health Visitors, Nurses and Compounders is still being keenly felt by this Department. Inadequate pay and prospects are mainly responsible for the difficulty in recruiting duly qualified doctors and other technical staff.
- 53. The Special Officer in the office of the Director of Public Health, Assam was transferred to his substantive post as Assistant Director of Public Health and was posted at Gauhati as Assistant Director of Public Health of Western Public Health Division after he had completed the drafting of the Public Health Act.
- 54. There was no new development of Public Health Administration in the State of Assam during the year under review.

The Budget allotment for the year 1950-51 was Rs.21,50,900 as against Rs.30,81,700 in 1949-50 and Rs.21,35,800 in 1948-49. Out of this, the total grant for Post-War Development Schemes of this Department amounted to Rs.1,50,697 during the year under review.

One senior District Medical Officer of Health was deputed for higher training abroad in Opthalmology. One Assistant Surgeon, II, was deputed for training in D.P. H. and Hygiene course at the All-India Institute of Hygiene and Public Health, Calcutta and one Assistant Surgeon II, was deputed for training in the up-to-date method of manufacture of vaccine lymph in Madras.

56. The strength of the technical personnel of the Public Health Department during the year 1950 was as under:—

	Post					1	Numbers
1.	Director of Public Health	S notifica	out Walle			selice	1
2.	Assistant Director of Public Health						2
3.	District Medical Officers of Health		14	Ho	d local m	o calife	8
4.	Subdivisional Medical Officers of He	alth	noit men		animor s	ol phiali	8
5.	Assistant Surgeons II	animen a	beauth ser		o landa	there is	136
	Director of Pasteur Institute	Title salv	od ditali	School	ed bear	be perfe	or plub
	Assistant to Director of Pasteur Instit	tute	our pinousy	da ka w	Section von	angolds, p	de contract
			n Halifler da	-1 0 1	l'a Amala	ming m	deserves Meanures
0,	Officer In-charge, Provincial Public the Government of Assam.	rieaith Lai	oratory a	na Pub	nc Analy	st to	oult bus
9.	Assistant Analyst	anolistical	10.115	***			1
10.	Special Leprosy Officer					10	1
11.	Officer In-charge, Vaccine Depôt, Sl	nillong					1
12.	Malariologist					***	1
13.	Biochemist	0.00		79.2.30		1000	1
14.	Entomological Assistant	N	CELLET				1
15.	Urban Health Officers ,						7
16.	Statistician						1
	Rural Health Inspectors (99 plus 80 F					 th D P	H. qual

The Shillong Municipal Board employs one qualified Medical graduate with D. P. H. qualification whose pay is met from the contribution of Government.

CHAPTER XI

Other Public Health Services

A. Industrial Hygiene and Mines

57. No mines were inspected by the Public Health staff during the year under review.

58. Cultivation and manufacture of tea, timber-cutting coal-mining and petroleum are principal industries in the State of Assam. Sanitary conditions in practically all these industries were far from satisfactory.

tory.

59. A total of 251 emigrants came to the tea-gardens of the State of Assam during the year under review as per table given below:—

				mileting constant and an inches and and an inches an inches and an inches an inches and an inches an inches and an inches and an inches and an inches and an inches and an inches an inches and an inches an inches an inches and an inches an inches and an inches and an inches an inches an inches an inche							
Mont	h		Souls	Remarks							
January	1950		27	One case of corneal ulcer was treated at our Purulia depôt in March 1950. The patient recovered after treatment.							
February	"		60								
March	,,		60	There were two cases of infectious disease, a female of 24 years							
April	;,		56	suffered from Cholera and her husband, 30 years old, suffe from 'Pox and Dysentery'. These cases occurred Rangiya depôt in May, 1950. They were placed under R							
May	"		8	way Medical Officer for treatment but they did not recover							
June	**		1	and died.							
July	"		1	A girl of 3 years of age, daughter of the above deceased, suffer-							
August	,	asbations	14	ed from fever and was treated at the Railway Dispensary at Rangiya. She recovered and was sent to garden concerned.							
September	"	101.000									
October	33		4								
November	"	aniflarb -	uli.Lordo								
December	10 10	and Seed of	20								

Total

60. According to a brief note received from Messrs. Assam Oil Company Limited, Digboi on health measures undertakes by the Company, a Statement of certain selected diseases, and injury cases treated in Assam Oil Company Hospital, Digboi in 1950 along with total number of deaths is given below:—

Serial No.	Discases	WILLIAM TO THE PARTY OF THE PAR							Cases	Deaths
(1)	(2)								(3)	(4)
1	Appendicitis								4	
2	Amoebic dysenter	y							73	
3	Anæmia								15	6
4	Bacillary dysenter	y		***	***		***		206	2
5	Beri Beri							***	19	
6	Chicken Pox								10	
7	Diabetes		***			***			2	
8	Diptheria								16	6
9	Enteric Fevers								37	2
10	Eclampsia				***		111	244	1	1
11	Gonorrhoea							11	53	
12	Gastric/deudonal	ulcer							13	
13	Influenza								76	
14	Injuries								341	3
15	Kala-azar			***				***	4	
16	Lobar and Bronc	ho Pne	umonia	***			***		136	8
17	Leprosy						***		2	
18	Malaria				• • • •				693	
19	Malaria Cerebral								12	'6
20	Meningitis								5	1
21	Measles		***		***				48	
22	Nephritis								25	1
23	Pulmonary T. B.					***			21	3
24	Pleurisy				***	***			54	
25	Small-pox								1	1
26	Syphilis	***		***			***		24	
27	Typhus					00			2	1
28	Other causes						w. #**o		271	49

As per reports received from Messrs. Assam Railway Trading Company Limited, Margherita, comparative tables for the years 1949-50 showing prevalent diseases among a working population of 5,059 in the company is given below:—

Name of Disease		Table of	common	disease	s for the	year 1950	Number	Percentage
Malaria .		·100,I ···			Intel [®]		523	0.86
Kala-azar					***		38	0.06
Dysentery	lo elipsi						571	0-94
Chiken-pox							16	0.03
Measles							7	0.01
Respiratory							1,850	3:04
Accident	lo neita a			-	9 00 200		2,115	3.48
Other diseases		. Indian			of broader		17,564	28-93
	bully along	Table of	ommon	diseases	for the ye	ear 1949		
Name of Diseas	•						Number	Percentage
Malaria	and an			******			1,241	1.57
Kala-azar .	boludin	db raims					52	0.06
Dysentery	hor of the	100	and beautiful	***			859	0.09
Chicken-pox		detection and		***	mended onto		16	0.02
the the laboration							made an Park Total	0.05
Measles		Timbers		***	Selected of	a berreibb s	45	0.03
Desciontes			****	mitte y	Sello West of	o berriebba dan oca	2,803	3.26
Respiratory .		Sign Strain					OH AND DESCRIPTION	The state of the s

From the above comparative tables for 1950 and 1949 it appears that number of accidents was higher during the year under review. This slight rise on last year's figures was due mainly to extension of mining operations, and better attendance at dispensaries for treatment. The majority of the accidents were quite

61. Sanitary condition of labourers in tea plantation.—The prevailing sanitary condition of labourers, according to the report received from the Labour Department, is far from satisfactory. Congested housing, absence of drainage in lines, lack of latrines and urinals, habit of keeping domestic animals in the dwelling room or in part of it, etc., are the noticeable features. The labour lines are mostly ill-planned and the houses are built without making proper arrangements for ventilation and lighting. Most of the houses contain one room where a whole family lives and the kitchens are mosty attached to the main houses.

B. Food Adulteration

62. A total number of 548 samples of foodstuffs were received at the Provincial Public Health Laboratory, Shillong for analysis by the Public Analyst from different places in the State of Assam during the year under review, as compared to 546 samples received during 1949. Of these, 352 samples were received from the Municipal Boards, 109 from Local Boards, 8 from Town Committees and 79 from other sources; of the total foodstuffs analysed, average adulteration was found to be 59.4 per cent. in 1950 as compared to 72.3 percent. in 1949. Percentage of adulteration in case of mustard oil was 57 per cent., in case of Ghee was 70 per cent. and in case of milk was 61.9 per cent. Cent per, cent. adulteration was detected in 'atta' and 83.8 per cent. in 'maida'. In tea, adulteration was found to be 73.3 per cent. During the year, 38 samples of vegetable oil products were examined and 11 samples were found not conforming to the standards laid down in the Vegetable Oil Products Control Order, 1947.

Mustard oil was found adulterated chiefly with till oil, 62.6 per cent. adulterated samples contained this oil, 14.8 per cent. contained ground nut oil, 10.4 per cent. contained Linseed oil, 5.4 per cent. contained Mula oil, white oil, etc. Samples of ghee in all cases of adulteration, were found to contain hydrogenated vegetable oil. Atta and maida were found adulterated with barley, rice-powder and ground-pulses. Sam-ples of rice that were examined were found to contain excess of paddy and in some cases they were weevil-

infested disintegrated and mouldy.

63. Food-inspection.—Appointment of Inspectors, under the Assam Pure Food Act, 1947, was continued during the year under review. The Health staff inspected hotels and restaurants as a routine measure with reference to the sanitary condition of the premises, wholesomeness of food sold and control and spread of infection.

64. The Provincial Public Health Laboratory, Shillong.—Altogether 1011 laboratory examinations were done during the year. Of these food-stuffs numbered 548. The table below shows the actual volume of work done at the Provincial Public Health Laboratory, Shillong, during the year 1950 as compared to the previous

two years :	List of laborator	y Examinatio	on .			1950	1949	1984
	1					2	3	4
1. Chemical Exam	nination of foods	tuff		***		548	556	433
2. Chemical Exam	nination of water					96	84	125
3. Bacteriological	Examination of	water		mican disc	3 14. Bul	346	328	313
4. Miscellaneous	Examinations					12	26	10
5. Spirit (Rectified	, denatured and	country)		ATORID HOS	···	9	34 (0)	30
		Total				1,011	1,018	911

65. Bacteriological examination of water.—Three hundred and forty-six samples of water from different places were examined bacteriologically at the Laboratory. The quality of the samples of 'weil' water even from 'Pukka Wells' were found to be very unsatisfactory. Gauhati samples of tap water were repeatedly found to be contaminated. Several samples of water from the river Brahmap atra and a few tributaries were examined after the great carthquake of August, 1950. All these showed high bacterial contamination, high turbidity and unsatisfactory chemical nature.

66. Chemical examination of water.-Ninty-six samples of water were examined chemically.

67. Missellaneous Chemical examination.—Twenty one miscellaneous samples were examined chemically.

A piece of work on behalf of the Forest Department, Assam on the preparation of Turpentine, and rosin from the resin tapped from the indigenous pine trees (Pinus Khashya) was undertaken in the Labora-One hundred grms. Oleo-resin tapped by cup and lip method yielded 25 to 30 c. c. turpentine oil on distillation and about 60 to 70 grms, of rosin could be recovered. The Industrial possibilities are being explored by the Forest Department.

Hydnocreol .- Injectible Hydnocreol, i.e., Hydnocarpus oil with 4 per cent. double distilled creosote was

prepared and stocked as usual in the Laboratory for supply to the districts for treatment of leprosy.

68. Urea-Stibamine.—The Laboratory supplied Urea stibamine to all dispensaries and hospital in the Khasi and Jaintia Hills and other Hill districts. This drug was supplied to the plains districts from Assistant Director of Public Health's offices. The total quantity of urea-stibamine distributed was 193.81 grms. (715 amps.) and Neostibamine ampoules—6.95 Gms. (98 amps.).

The supply of Collin's syringe and syringe parts was continued to all hospitals and dispensaries. usual, the Public Health Laboratory continued to work as the Provincial Depôt for the sale and distribu-

tion of anti-malarial drugs under the control scheme in addition to its duty.

The Government taking prompt action on a resolution passed by the Asom Janaswasthya Parishad, held in December 1949 at Gauhati have been considering favourably the question of expanding the laboratory further, so that Assam may not depend on any other sister State for chemical work required by the lawcourts in Assam.

At present the Chemical Examiner's work for Assam is done in West Bengal, paying an annual fee. It is now proposed to have the work done at the Provincial Public Health Laboratory. The starting of a Chemical Examiner's Section in the Provincial Laboratory will not only expedite trials which require chemico-legal examinations but shall also equip the laboratory fairly for undertaking analytical work on resin, lac, minerals and other indigenous material for the industrial development of the State.

CHAPTER XII

Development work under the Post-war Schemes

- 69. Malarie.—The details of anti-malaria measures undertaken during 1950 are given in Chapter VII. This Post-war Scheme was discontinued since 1st January 1950 as a measure of economy.
- 70. Tuberculosis.—Annualy about 500,000 deaths take place from tuberculosis in Inqua and about 2.5 million open cases of tuberculosis exist in the country.

In the State of Assam, 1749 cases of deaths were registered due to tuberculosis during the year 1950. Tuberculosis patients continually disseminate infection among those with whom they come in contact. The following figures show the death-rate from tuberculosis for a comparative study:—

Tuberulosis death per 100,000 population

- 18101	Cawnpore	medianeli e	bragger	baldine		loe noni	HINE THE		432
	Lucknow	Maran Mil		11 ,770 0	hilly level	Mel.Lola	1000	Amazo as	419
	Madras			***		***	***		290
	Calcutta	in catton ni		141 - 141 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	mosses and		****	S 10	230
	Bombay								140

Assam (1950)..... 0.10 per 100,000 population.

The above figure shows that death-rate from tuberculosis is much higher in urban industralised cities in comparison to agricultural states like Assam.

- 71. The Post-war Tuberculosis Scheme was implemented from July 1947 and a Provincial Tuberculosis Officer was entertained. But the post of this Officer was abolished with effect from 1st March 1950 as a measure of economy. The Clinic at Jorhat is now supervised by one private medical practitioner and the Clinic in Shillong is looked after by the doctors of the Red Chest Hospital.
- 72. B. C. G. Vaccination.—B. C. G. Vaccination is gradually becoming popular in the State of Assam. B. C. G. Vaccination was first started in Assam since 10th October 1949, under the guidence of Dr. O. A Hagen, the leader of the Foreign team. After the departure of the Foreign team B. G. G. work is being conducted by local trained teams of the Public Health Department.
- 73. The following number of tuberculin tests and B. C. G. Vaccinations were performed by the Public Health Department teams during the year 1950:—

Serial No.			Names o	of places					Number of tests V	B. C. G. accination done
1	Gauhati	1 M				about but	The Netl		866	206
2	Sualkuchi	2 04				bu	Piniand Sweeth		7,665	3,648
3	Palashbari	8-95					New Zen		4,220	1,619
4	Barpeta	abat in e	aniello leis	of Vibrai ea			and the co		9,708	4,422
5	Howli	programa	dineggoni si	II. selda			limile n		1,214	556
6	Nalbari	to miles	silence singe	AND BUT			0 0 107/		579	247
7	Shillong	I marry	ada sit gali a	mille	loveso 8	lossegin	billedi		3,805	1,428
8	Jowai	bette was	2 Hay , 2101	eavy add	itr'ban	destina	· · · · · · · · · · · · · · · · · · ·		616	305
9	Cherapunji	and to division in		e	office l	o Wass	m 4"1A-		1,106	415
10	Mawphlang	congribut A dilease	margasmi s	(1.)o wain	Hut in	1950	regal :		841	493
11	Jorhat	мод зч	toroslaA r	ne Harit	9500	I flant	al mind		27,176	10,002
12	Dibrugarh	2 10 1 ****	pervised the	msiddi	is continue	lo mitte	daire n		11,604	4,466
13	Tinsukia	to unite	squery, Co.	man, poop	op. out	or size re	nuctit out		2,564	1,161
14	Silchar					01 07 11	Assistan		773	150
15	Aijal			ER XIII	CHAP				5,114	2,093
16	Tezpur			Remand	eneral	ə			8,627	3,449
17	Mangaldai	mall-mori	1 2000 3010	pour-mag	beganne	ements.	jamon		2,072	949
18	Dhubri	2000 Miles	in cattle vin	oc refore	1 '25 years	ne trajo	l stops		4,085	1,489
19	Gauripur	Herita De	the Piller	fugees in	ar add to	podniko vere inilu	accomma	onary m	1,874	941
				. These	Total '	cak of ca	Turno im	wand ol	,06,083	42,505

^{74.} The very character of the tuberculosis infection, its chronic nature as a disease, the distribution in an epidemic form in all places, are such that true evidence of the efficacy of the B.C.G. vaccine can be obtained merely by statistical studies.

With this end view B.C.G. Vaccination figures are being collected as accurately as possible in the office of the Director of Public Health.

75. During 1950, His Excellency Shri Jairamdas Doulatram kindly accepted the office of the Chief Patron of the Tuberculosis Association of Assam.

T. B. Seal Sale Week

Ten thousand sheets of T. B. seals worth about Rs.22,000 were sold in the State.

Due to paucity of funds, the Association could not take up any new project or projects during the year under review.

70. Maternity and Child Welfare .- Maternity and Child Welfare work in Assam was previously conducted by the Red Cross Society and other voluntary organisations. The State Government took over the work during the year 1948 when a five year Scheme was taken up under the Post-war Development Scheme of Maternity and Child Welfare. Owing to financial stringency more centres could not be opened. The existing four maternity and child welfare centres, were functioning during the year 1950. These centres were at (1) Shillong, (2) Jorhat, (3) Nowgong and (4) Tezpur. The work done by these four centres consisted of home visits by Health Visitors and giving proper instructions to expectant and nursing mothers.

77. Nutrition.—The Post-war Nutrition Scheme was abolished towards the close of the year 1948, as a measure of economy.

measure of economy.

78. (a) Diets in Assam are poor. Well balanced diets are, in general, more expensive than deficient ones.

(b) Insufficient and "Ill-Balanced" diet and "Well-Balanced" diet are compared diagramatically in the figure below :-

(e) Staristics of . ilk .- Per capita consumption of milk in Assam in comparison with that of other

places.

Milk contains protein of high biological value, and other important food ingredients, for this reason, its consumption by children and expectant and nursing mothers is to be encouraged in particular. Milk is perhaps the one article of food which can be safely used by all classes of the population in the country in order to increase protein consumption. From statistical enquiry, it is found that the per capita consumption of milk in India is much smaller than that of any country in the world. The following figures are cited from a Report on the Marketing of Milk in India and Burma issued by the Agricultural Department of the Government of India.

Total consumption of milk and milk products per head per day

l. No.	Country	per nea	a per au			Ounces
1.	India					5.8
2.	Italy				***	10.1
3.	Austria					18.8
4.	Czechoslovak	ia				26.3
5.	France					30-4
6.	Belgium					33.0
7.	Germany					35.0
8.	U. S. A.				***	35.6
9.	Denmark					40.3
10.	U. K.					40.7
11.	Norway					41.7
12.	The Netherla	nds				44.2
13.	Australia					44.4
14.	Finland		****			45.4
15.	Switzerland	1000		***		49.2
16.	New Zeland					55.6
17.	Canada					56.8

Calculating the per capita consumption of milk for the individual provinces in India, it is observed that the average rate of consumption of milk varies considerably. It is interesting to note that among the provinces of India, Sind and the Punjab top the list-with 18 ozs. and 15.2 ozs. per head per day respectively, and Assam records the lowest average of 1.3 ozs. only. The per capita consumption of milk in the State of Madras is 3.3 ozs. per day.

Dr. Aykroyd suggested for the inclusion of 8 ozs. of milk per day in the average Indian diet in order to

improve its quality

79. Public Health Engineering .- Towards the end of the year 1949, this Scheme was abolished as a mea-

sure of economy.

80. Anti Small-pox Scheme.—As a measure of economy, the Scheme of mass vaccination by Health Assistants was discontinued since 1st January 1950. But in view of the important contribution of the Scheme to the cause of public health in rural areas, the Scheme was revived with 80 Health Assistants, i. e., half the strength of the original Scheme from 1st April 1950. One Health Assistant was posted to each thana to carry out mass vaccination and to induce more unprotected persons to take vaccination. In addition, the Health Assistants also carried on disinfection of water supply, supervised the work of collecting vital statistics and assisted doctors during epidemics. It may be mentioned that owing to limited number of Health Assistants this work could not be brought up to the desired standard. Government have been moved to increase the number of Health Assistants to 160.

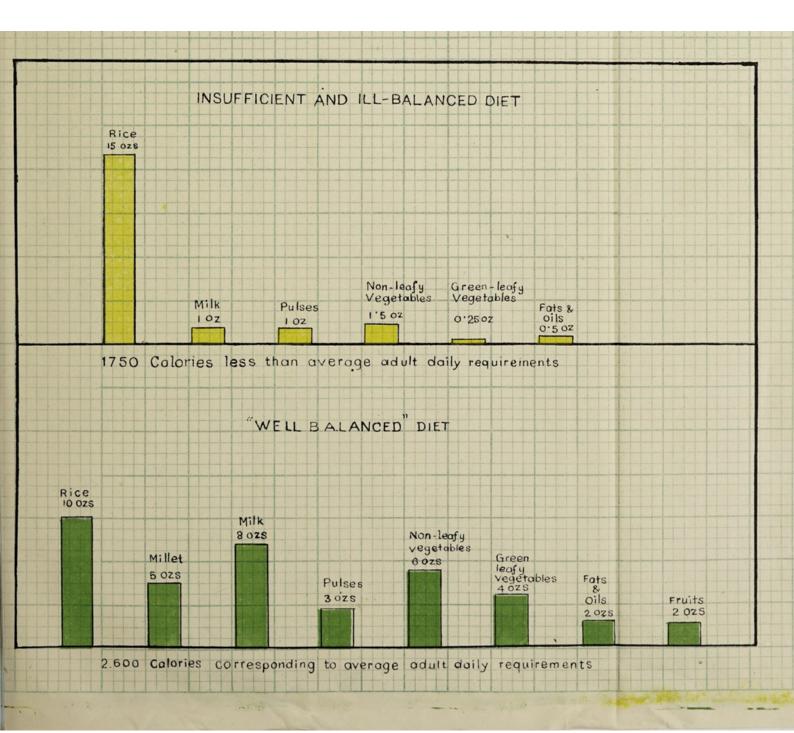
CHAPTER XIII

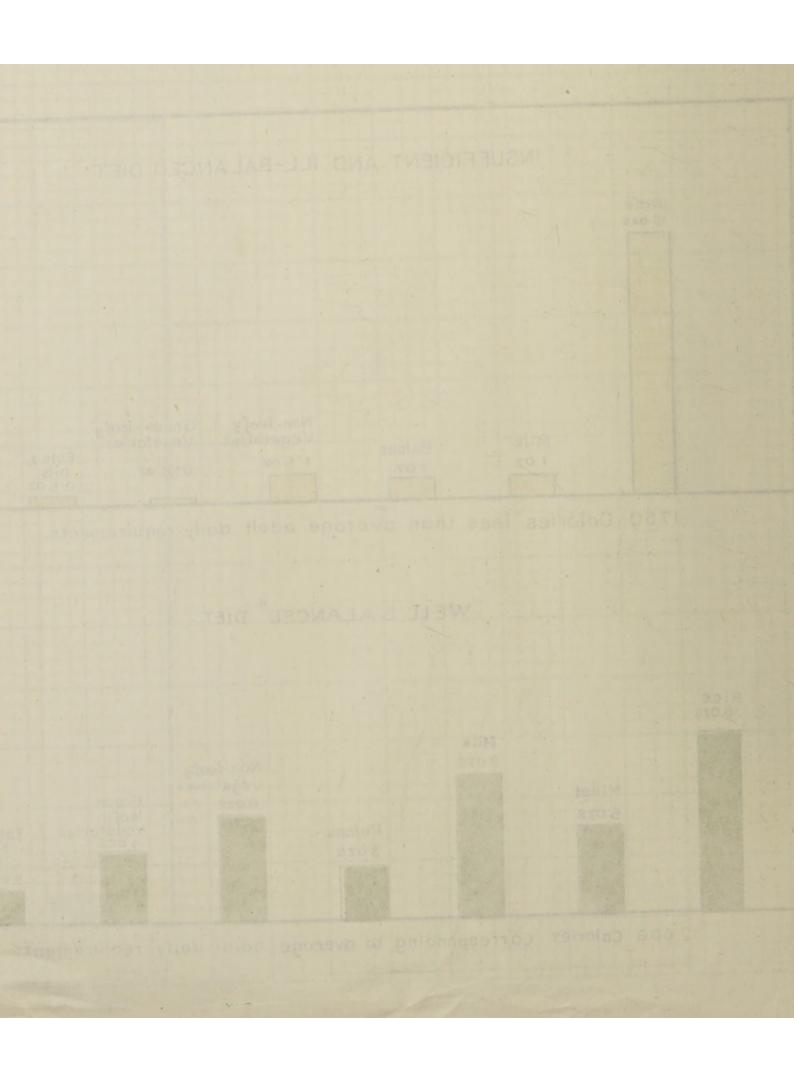
General Remarks

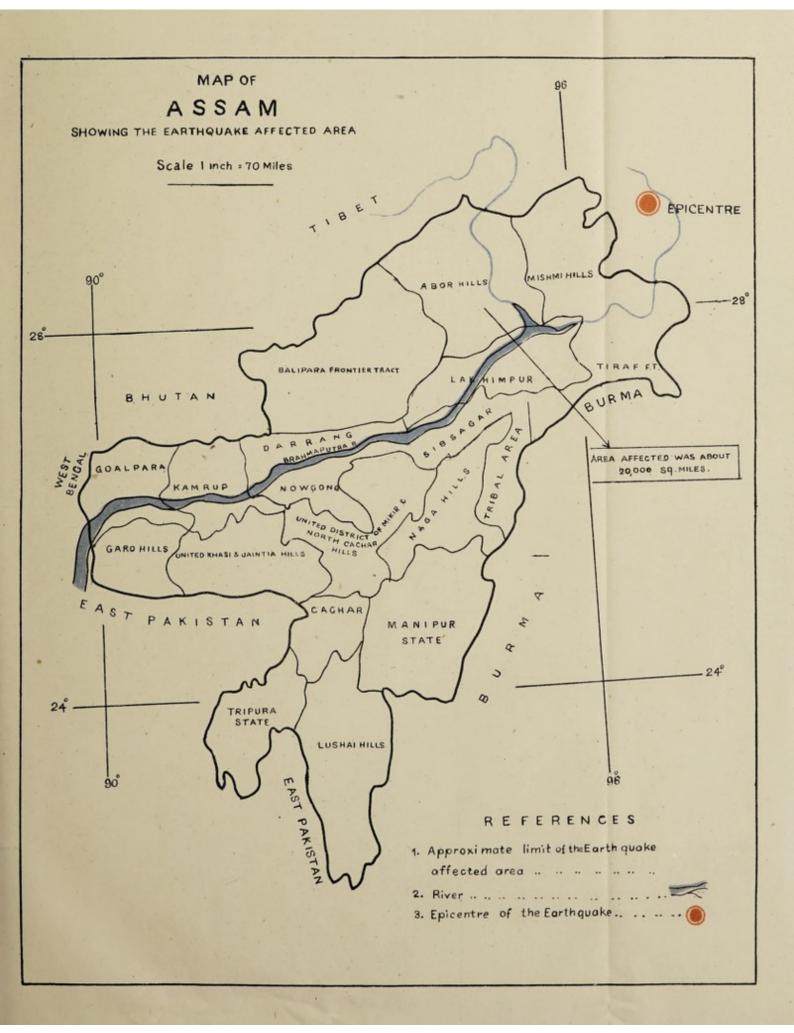
81. Refugees.—A large number of refugees began to pour into the State from East Pakistan from the first week of March, 1950 through the adjoining districts of Cachar, Khasi and Jaintia Hills, Goalpara and Garo Hills and scattered into the interior. The majority of the refugees came through Cachar district. Several camps were established for the accommodation of the refugees in the above districts and in other districts in the interior. Precautionary measures were taken by the staff of the Public Health Department in the camps and outside the camps to prevent outbreak of epidemics. These measures inter alia consisted of:—

Inoculation and vaccination of refugees against cholera and Small-pox.

Distribution of medicines and anti-malarial drugs, invalid foods, e. g., Sago, Barley, Tinned milk and Multivitamin tablets.







(3) Disinfection of all sources of drinking water supplies.

(4) Spraying of the camps with D. D. T.

Besides, arrangement for treatment of infectious cases and patients suffering from other diseases were made.

It is gratifying to note that no epidemic broke out in or outside the camps.

82. Earthquoke and Flood.—The year 1950 was characterised by one of the severest earthquake yet recorded in history which affected the northeastern part of the State, causing great havoc to property and untold suffering to the people in the affected areas. Details of preventive and precautionary measures taken by this Department are given below. Apart from this calamity the year was normal. The climatic condition was moderate, morbidity and mortality were normal as compared with previous years. There was no epidemic during the year.

In the wake of the earthquake, the floods also occurred, affecting vast areas and increasing the suffering

of the people.

Immediately on receipt of information of the great havoc caused by the earthquake, precautionary and preventive measures were taken by this Department against any possible outbreak of epidemics in the affected areas. Medical relief measures were organised. Doctors and other staff of this Department were withdrawn from different districts and deputed to relief work to the affected areas. Voluntary medical units of various organisations from this State and other States rendered medical relief side by side with the staff of this Department.

Huge quantities of medical stores, e. g, medicines, disinfectants, etc., were supplied to the affected areas. A large portion of the supplies was kindly donated by the West Bengal and India Governments and the Indian Red Cross Society and certain private organisations. Two lacs pounds of skimmed milk powder kindly donated by the UNICEF were distributed in the affected areas by Mahila Samity and other voluntary

bodies under the direction of the Public Health Department.

Three hundred and four tube-wells were donated by the Government of India. In addition to these, 12 tube-wells were purchased from the Assam Governor's Earthquake Relief Fund. Some of these tube-wells were sunk during 1950 and the work in connection with the sinking of the remaining tube-wells is nearing

A Supply Depot was established at Gauhati for receipt and onward transmission of medical stores

to the affected areas. Advance Depots were also opened at Dibrugarh, Jorhat and Margherita.

Mass inoculations against communicable diseases, sterilisation of all sources of drinking water supplies were carried out immediately in the affected areas. The sinking of 304 tube-wells donated by the Government of India has been undertaken by the Public Works Department staff in consultation with Local Relief Committees and staff of the Public Health Department.

In order to provide continued medical aid to the stranded people of the affected areas it is proposed to open Public Health Department Dispensaries in certain affected areas in the interior of the North Lakhimpur and Dibrugarh Subdivisions where medical aid is out of reach even in normal time.

D. D. T. spraying (as an anti-malaria measure) was also undertaken in the affected areas. It is proposed to take up D. D. T. Spraying again before the monsoon.

The following figures will show the extent to which precautionary measures were taken in the affected areas. Unto 31st December 1950.

Anti-cholera inoculation	essy pidies		 1 200		311,165
T. A. B. inoculations			 		60,574
Small-pox Vaccinations			 		33,901
Disinfection of sources of	drinking	water	 	***	74,475

A map is appended showing the earthquake affected area where relief work was done successfully by the Public Health Department.

The total number of human mortality due to the Earthquake in the Mishmi Hills District was 768 according to the report received from the Civil Surgeon, Sadiya and Tirap Frontier Tracts.

83. Research work.—No major research work was carried out during the year under review.

- 84. Public Health Legislation .- (1) The Assam Ture Food Act, 1947 which was revised was in operation in 1950. Under the provisions of the revised Act, it was possible to tighten the control of adulteration of
- (2) The Assam Kala-azar Treatment Act, was introduced in 1949 and was in operation during the year under review. This act, prohibits the treatment of Kala-azar cases by unqualified medical practitioners.
- (5) Public Health Act.—The comprehensive draft Public Health Act, which was submitted to Government last year is still under consideration of Government.

CHAPTER XIV

Committees

85. No annual session of the Assam Janaswastha Parisad was held during the year under review.

86. The work of the Assam Council of Blindness was taken over by the Public Health Department as a part of the departmental work since 1948. One meeting was held during the year under review. The activities of the Council are furnished at paragraph 20, Chapter III of the Report.

87. Assam Public Health Advisory Board:—The Board met once during the year under report. The most

important of the resolutions passed in that meeting are given below :-

(1) To make more vigorous and comprehensive plan with a view to eradicate the Hook-worm disease

(2) To introduce compulsory teaching of Hygiene upto Matriculation Class.

(3) To increase the strength of Health Assistants by 50 per cent. immediately.
(4) To create a Public Health Propaganda Section under the supervision of a Special Medical Officer in co-operation with the Publicity and Social Education Departments.
(5) To request Local Boards to grant one or two stipends for Dhai Training in the Classes started at Newcord Country Shillows Discussed Silvers at 10 per cent.

Nowgong, Gauhati, Shillong, Dibrugarh, Silchar, etc.

As regards Resolution No. 1, two Mobile Units have recently been sanctioned by Government and are already functioning. But in order to complete the work in the plains districts within five years, more units are necessary. Proposal has accordingly been submitted to Government.

The recommendation in Resolution No. 2 has been communicated to the Director of Public Instruction,

Assam to give serious considerations.

Resolution Nos.3 and 4.—In view of the present unfavourable financial position of the State, it has not yet been possible to implement the recommendations. Nevertheless, Government has again been requested to give effect to the recommendations.

As regards Resolution No.5, the Local Boards have been requested to implement the recommendation

of the Board.

CHAPTER XV.

Miscellaneous

88. The Vaccine Depot, Shillong.—During 1950, the outturn of vaccine lymph was 25, 94, 125 doses as against 16, 13,130 doses in the previous year. Due to mass vaccination carried out in the State, there was a great demand for vaccine lymph during the year under review. All demands were met and in addition, more than half lakh doses of lymph were supplied to the Punjab and similar quantities to the Tripura State.

89. The outturn of vaccine lymph and average cost per dose for the last ten years are given below:—

	Year	Number of doses manufactured.	Average cost per dose.	Expenditure in which average cost is calculated.	Number of calves from which lymph was taken.
	1 was viewed .	yd mann gathellar	3 0 0	the DMICE we would	5
		[Doses]	[Pies]	[Rs.]	
1941-42		 9,12,442	3.42	16,273	239
1942-43		 13,60,758	3.11	22,578	366
1943-44	lo noir incom	 29,80,160	4:15	64,576	772
19 4-45	dealers in ha	 29,34,725	5:38	82,247	739
1945-46	medicini.	 26,24,797	4:56	62,408	582
1946-47	d borners alle	 20,68,849	4:53	48,826	424
1947-48	hive management	 16,13,500	5.83	49,060	274
1948-49		 16,80,250	5.54	48,562	278
1949-50	of monday	 16,32,130	5:32	45,299	261
1950-51	of the Ne	 25,94,125	4:04	54,744	352

The above figures will speak for themselves regarding volume of production of vaccine lymphs, and is cost of manufactures per dose. It is hoped, the Vaccine Depôt will be a much better profit-yielding concern in the near future, as it still is, and will be a much bigger vaccine Depôt for supplying vaccine lymphs to this State as well as to other States.

90. Pasteur Institute, Shillong.—During the year under report the activities of the Pasteur Institute continued more or less as in the previous year. The total quantity of anti-rabic vaccine issued from the Institute, during the year was 1,97,907 c. c. representing 2640 treatments. During the same period 14,79,218 c. c. of cholera vaccine, 56,890 c. c. of T. A. B. and 1,44,608 are poules of 2 c. c each of combined cholera and dysentery Bacteriophage were issued from the Institute. The stock of the Institute at the end of the year stood as follows:—

						C. C.
Anti-rabic vaccine	 		 	***	10000111	1,22,462
Cholera vaccine	 	***	 	***	***	81,0981
T. A. B. vaccine	 arts and an	1100	 		1111-111	23,280
Bacteriophage	 		 	the bar		21,952

The number of specimen received and examined during the year were 11,303 which shows a steady increase. Quite a number of new method of examinations were introduced in the Biochemical Section, particularly those in connection with liver function tests and also a few new methods in the general laboratory for early and more correct diagnosis of diseases.

Two thousand one hundred and eighty seven wasserman tests were performed during the year under review. Specimens were received from all over Assam, of which 546 proved to be positive. The Genitourinary Clinic, Shillong, sent 464 specimen; 162 of them were positive. Seven hundred and fifteen specimens were received from other hospitals in Shillong area of which 142 were positive.

Of the blood specimens received for suspected typhus cases, 12 proved positive, of which 4 were from

Shillong area, 4 from Jowai and the rest from other parts of Assam.

In the Clinical Research hospital 9 patients were treated during the year. Of these 3 were dog-bite cases, one jackal-bite case and the rest included Kala-azar patients not responding to routine treatment and other suffering from undiagnosed diseases. Proper investigations were done on all of them and all were discharged cured.

During the year one Horizontal Bulk Steriliser was received from America and one Vertical Boiler was

received from Scotland.

In the later part of the year Dr. S. R. Pandit, who served as Director of the Institute for about 8 years finally retired from service. Dr. R. L. Cunville, who was Assistant to the Director was promoted to Directorship on Dr. Pandit's retirement. Dr. B. C. Gogoi was appointed as Assistant to the Director of Pasteur Institute.

Personnel

I was in charge of the Department throughout the year.

Due to severe Earthquake and consequent floods in the North-eastern part of the State, the Subdivisional Medical Officer of Health, North Lakhimpur Subdivision was no longer able to cope with the work of organising relief measures in the Subdivision which was the worst-affected area. Dr. B. C. Gogoi B.SC., M.B., D. P. H., a senior District Medical Officer of Health was deputed to organise and supervise Medical Relief Measures in this Subdivision as well as in the adjoining areas. He performed the duties satisfactorily in spite of unprecedented difficulties.

As a result of the discontinuance of Post-war Schemes and as a measure of economy, the following Postwar Officers were discharged early in the year:

1. Sree S. N. Chakravaty, Public Health Engineer.

2. Major P. L. Burman, Provincial Tuberculosis Officer.

3. Assistant Director of Public Health (Malariology) (vacant but abolished).
4. Dr. A. C.Barbora, M.B., D.P.H., Special Medical Officer in-charge, Maternity and Child Welfare.
Dr. P. N. Hazarika, M. B., D. P. H. (Cal. and Lond.) Assistant Director of Public Health who was placed on special duty in the Office for drafting the Public Health Act, was reverted to his substantive post on completion of the work.

There was an acute shortage of technical staff particularly Assistant Surgeons grade I and II owing to non-availability of qualified candidates. The revised scales of pay sanctioned in 1948 do not offer adequate emoluments and prospects to the Assistant Surgeons of grade I and II of this Department and hence there is deep discontentment. Doctors are not coming forward to serve in this Department and young doctors who are already in the Department are trying to go away only because of low pay and prospects. Government was apprised of the situation which is serious and urged to improve the pay and prospects of doctors.

It needs no emphasis that the efficiency of the Public Health Department mainly depends on the services of these officers and actually they are the backbone of the Department. If they remain discontented and fail to function properly, not only the efficiency of the Department will suffer to a great extent but the life

of the people at large may also be greatly jeopardised.

In spite of repeated representations adequate staff were not sanctioned by Government for this Office. The executive and ministerial staff of this Department discharged their duties loyally and satisfactorily in spite of tremendous demand on their services by emergent work in connection with relief measures in the Earthquake and flood affected areas and Refugee camps. I am happy that the situation was satisfactorily handled.

Lastly I offer my heart felt thanks to all those generous people who have helped either directly or indirectly to relieve the suffering of the poor people in the areas affected by Farthquake and floods.

SHILLONG: The 7th September, 1951.

S. C. DUTT. Director of Public Health, Assam.

As a specific of the discontinuous of the var Schemes and as a minimum of economy, the following plans that Others were declared to the series of the series

A commend intercept of Post or Market Personal Control of the physician of

in special dary in the Clines for desired the finals. As were reversed to its substantive plan on an object.

the result in the contract of the revised and particular the revised and the result of the result of the revised property of t

It meets no employee that the efficience of the Polific Heith Department mainly deposeds no the will exof these officers and sensor the same the decisions of the Department, at they remain discounted and full sections to property may originate efficiency of the Department will soffer the given extent that the Life

In spite to average of average and the story on the course of the course for ally and satisfactorily in a fee of remissation and min average and the beginning the best decimal to their course for which in the Latter of remissation at the course of the co

really to relieve the politicing to the your proper in the areas affected by therebeater and forests.

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ANNUAL STATEMENTS FOR 1950

STATEMENT No. I-Showing the births registered in the districts of Assam during the year 1950.

[Statistics relate to place of occurrence]

						34						
-	o during	Persons	21	24-07	14.54	7-45	19-37	12.55	20-93	16.02	16.34	
	births per 1,00 vious five year	Female	14	11-60	6.62	3.83	9-35	00.9	10-09	7.85	7.88	
	Mean ratio of births per 1,000 during the previous five years	Male	13	13:14	7-72	3.61	10-01	09.9	10-88	8-15	8-46	
	-	females born	12	108	123	ш	109	112	109	102	109	
		Persons	11	22.87	11-92	4-43	20.62	11-10	21-10	13-63	14.50	
	Ratio of births per 1,000 of population	Female	10	10-95	5.32	5-09	9-84	00 61	10-54	6.72	06-9	
fanna	Ratio of birt	Male	6	11-92	6.28	2.33	10.78	5.82	11.33	26.9	7-58	
	of births registered	Persons	60	21,346	13,558	6,782	18,130	9,428	26,475	14,385	1,10,104	
		Female	1	10,218	6,065	3,204	8,653	4,484	12,732	7,083	52,439	
	Grand total number	Male	9	11,128	7,493	3,578	9,477	4,944	13,743	7,302	57,665	
		Persons	10	9,33,414	11,37,047	15,32,477	8,78,630	8,49,130	12,06,724	10,53,751	75,91,183	
	Estimated population	Female	•	4,01,687	5,33,060	7,09,694	4,12,090	3,93,320	5,66,784	4,65,271	34,81,906	
	Estima	Male	873	5,31,727	6,03,987	8,22,793	4,66,540	4,55,810	6,39,940	5,88,480	41,09,277	
					:	:	:	:	1.5	. !	State	
	Districts		04	Cachar	Goalpara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur	Total for the State	
-	3	Numbe	-	-	61	60	*	NO.	9	-		

STATEMENT No. II-Showing the deaths registered in the districts of Assam during the year 1950

(Statistics relate to place of occurrence)

					35								
-	per 1,000 ive years	- Malen	Persons	21	14-99	10-90	414	11.00	7.27	12.50	9-10	-	9.91
-	Mean ratio of deaths per 1,000 during the previous five years	0.00	Female	20	16-49	6.55	3.74	11-19	7.40	13.18	9-13		10-08
-	Mean ratio during th	1000	Male	19	14.02	11.22	4.15	10.67	6.82	11-92	8-92		9-16
-			bersons	18	11-74	9.04	2.54	11.37	5.85	10.46	98-9	-	8.03
		All causes	Female	17	5.57	4.21	1-66	5:38	2.81	5.13	3.34		3-77
		138.5	Malc	16	6-17	5:71	1.38	5:86	3.04	5.32	3.61		4.26
	mou	səsne	All other c	15	3.82	-14	.41	1.77	1.04	2.75	2.47		1.68
	ulation fi		Injuries	14	-14	-03	-02	.13	-08	.16	-08		60.
	Deaths per 1,000 of population from-		Respiratory	13	.62	0.18	20.	09.	.10	.78	.62	1	41
	per 1,0		Dysentery	22	1.03	.18	12	1.03	.24	1.10	99.		.29
	Deaths		Fevers	11	5.82	9-13	1.63	2.16	4.10	5:49	2.95		2.02
			Plague	10		:	1	:	;	:	:		:
-	52	E.	xod-llem8	6	.03	600.	.01	.01	:	.01	800.	1	.01
			Cholera	00	-20	.22	-26	90.	64	.15	-05		-18
	egistered	100	Persons	-	10,958	11,287	3,903	10,000	4,974	12,634	7,238	1	166,09
	Number of deaths registered		Female	9	5,199	4,790	1,738	4,737	2,388	6,201	3,530		28,633
	Number		Male	LO.	5,759	6,497	2,115	5,263	2,586	6,433	3,708		32,361
-	noita	pobnj	Average per square	*	340	270	362	286	199	221	233		322
	səlir	rote u	Area in squ	m	4,685	3,969	3,840	2,804	3,898	5,128	4,156		28,280
	THE PARTICIPATION OF THE PARTI	Districts		es .	Cachar	Goalpara	Каттир	Darrang	Nowgong	Sibsagar	Lakhimpur		Total for the State
1		No.		-	-	61	es	4	S	9	-		

STATEMENT No. 111-Deaths registered in the districts of Assam during each month of the year 1950*

Name of the Districts Elizations of the Districts Districts Elizations of the Districts Inches of the Districts April 1 or section of th				Ī														
Total Cuchan Color (Cuchan Col	4	Vame of the Di	istricts	16	Estimated Population		February	March	April	May	June	July	August	September		November	December	Total death registered during the year 1950
The control of the co		04			23	+	10	9	1	80	6	10	111	12	13	14	15	16
Total 1 (100.01) (100	Cachar	:	Rural	::	36,371	992	29	19 551	528	765	45 859	38	949	921	1,176	29	1,153	10,482
Creps			Total		9,33,414	1,011	8228	570	629	000	900	925	992	952	1,197	937	1,184	10,958
Total 11,37,947 1,692 1,020 708 71,046 1,189 71,049 1,129	Goalpara	1	Rural	10:	30,761	1,069	1,009	21 687	51	1,106	24	1,058	1,073	707	793	258	942	10,882
Total 14,574,096 166 115 216 216 216 216 216 217 218 217 218 2			[Total		11,37,047	1,092	1,030	708	71,048	1,159	707		1,121	749	824	780	971	11,267
Total . 15,32,467 28	Kamrup	Diam's	Rural		73,421	197	42	39	999	240	420	120 391	275	76 188	178	93	177	1,026
Total Signification Si	-		(Total		15,32,487	263	164	166	183	152	510	511	372	264	248	266	204	3,903
Nowgong		SAN	Rural		15,708	845	14 456	558	10 639	981	816	1,326	1,202	758	222 697	73.5	23 695	9,707
Name			[Total		8,78,630	198	470	588	619	1,022	841	1,357	1,220	778	719	171	718	10,000
Total	Nowgong		Rural		15,361	18 672	3623	14 659	370	16	28 402	23	314	307	24	31	323	4,732
Total 1,73,973 Sys 701 Cabinary			Total		8,49,130	069	384	673	382	669	430	487	331	326	212	219	341	4,974
Total 12,06,724 905 712 683 996 1,470 1,304 1,065 1,066 1,066 918 919 912	_	-	Rural		32,749	898	111	13	10 988	1,456	1,281	1,383	1,650	1,042	1,048	13 985	978	12,480
Total 10,092,239 476 535 374 484 766 695 682 525 576 834 659 508 77			Total		12,06,724	506	712	683	866	1,470	1,304	1,396	1,063	1,056	1,060	866	686	12,634
Total 10,53,751 485 547 581 286 435 777 711 699 535 576 844 678 513 513 514	Lakhimpe		Rural		44,512	476	535	09 12 st	8 484	766	16 695	17 682	10	570	10 834	19 659	508	130
			Total		10,53,751	485	547	381	392	777	711	669	535	576	844	678	513	7,238
rail circles	Tota	al for the town		:	2,48,883	164	151	143	268	435	251	282	246	208	150	244	144	2,726
rml circles	Ratio pe	r mille		3:	Marie Line	17-11	7-10	6.74	12-13	20-47	11-81	12-01	11.57	9-79	8-94	11.48		10-69
Estate	Tota	al for rural cir-	solo	:	73,36,221	5,149	3,978	3,626	4,123	690'9	5,156	6,191	5,388	4,493	4,914	4,405	4,776	58,268
e State 75,91,183 5,313 4,129 3,769 4,391 6,504 5,407 6,473 5,634 4,701 5,104 4,649 4,920 8.39 6.52 5.95 6.94 10.41 8.54 10.15 8.96 7.47 8.96 7.39 7.77	Ratio pe	r mille		:		8-40	6.50	5-93	92.9	9-92	8.43	10-09	98-8	7-33	8-03	7.20	7-81	7-94
8.39 6.52 5.95 6.94 10.41 8.54 10.15 8.96 7.47 8.06 7.39 7.77	Tota	of for the State		:	75,91,183	5,313	4,129	3,769	4,391	6,504	5,407	6,473	5,634	4,701	5,104	4,649	4,920	166'09
	Ratio pe		:	:		8-39	6.52	5-95	96-9	10-41	8.24	10-15	8.96	7-47	8-06	7-39	7-77	8-03

*Statistics relate to place of occurrence.

STATEMENT No.IV

619'9 1,331 3,472 6,993 4,642 77 77 22 22 23 36 36 34 316 2,279 6,128 22 Pemale Total of all ages 3,636 5,489 6,263 6,352 2 2 2 3 3 5 5 3 1,546 2,453 37 Male 60 years and upwards 1114:00-181 843 270 390 195 20 7 199 : 98 Pemale 0 - 0 0 0 0 1 1,112 603 53 2 535 617 932 12 Male 50 years and under 60 years F 6 H 9 0 3322 552 62 22 335 439 1,066 3 7 Lemale 3 109 6 4 4 4 6 289 3 297 382 582 369 20 60 years and 3 under 50 years E 332 314 363 844 263 22 Pennale 2.733 : 2 0 4 2 294 629 180 515 369 517 32 Mald Myears and under 40 years 489 373 133 53 33 869 2,746 : 1 : 4 9 2 Female : 32 0 0 2 23 230 577 167 929 270 2,746 53 8 plable and 30 3,308 1 6 0 4 11 113 517 199 965 ij 147 Pennale 20 20 years a 25 ES 11 1 1 2 2 2 2 4 456 6115 147 383 21 520 17 olahi 15 years and under 20 years 0 4 10 2 4 413 35 12 言 162 53 E 200 Female 2 104 : 2 1 6 12 122 121 397 Male 10 10 years and under 15 years - · · · · 124 2 121 122 55 156 345 # : Female 168 225 2 262 131 333 10 E 23 olabé S years and under 10 years : 01 9 8 21 21 186 450 100 354 262 55 2 359 21 Permale 2,181 366 107 358 38 261 279 2 Male 7 700 6,046 One year and under 5 years 139 8 340 637 919 311 33 2 - 2 - 2 - 3 3 6,258 663 8 \$23 3 178 9 2 : olald 8 4 2 6 2 3 4 10,768 102-73 2,355 197 1,963 440 2,316 1,351 InsoT 20 652 * - = = = = = = 686 950"1 1,074 98-10 336 2 Total Lemale 106.96 : 2 4 1 8 4 86 1,077 242, 649 1,167 35 91 olabi Over 6 months and not exceed-ing 12 months 38. : 2 5 189 \$ - 4 6 350 455 105 3 - : : LateT 12 2 2 336 1,160 = 346 309 Pemale 2 : : : ::: " " 167 553 38 300 13 135 35 23 olabt Over I month and not exceeding 6 months : = = = = = = 374 643 1,137 8 36 165 E LatoT Under 1 year 191 507 23 88 343 8 367 Female = : : " " " # 630 35 12 2,072 - - -255 411 390 Mald 2 * " " % " 4,352 1,165 623 2 348 25 1,051 111 -IntoT : " : " " 185 332 520 3 334 47 5 : 00 TeloT. : 0 " 118 12 176 226 22 256 11 18 P+ Sasw and tavO 15 32 296 158 H 10 200 F . : : : : Not exceeding 1 : " 9 0 2 2,417 - : -553 25 373 410 117 580 IntoIL Male 2 3 1 100 :":":"3 * 28 139 207 335 Masw and tovo : 1,208 364 200 80 3 245 207 : :: . : : Under one week rural Ratio per mille.. A.-RURAL CIRCLES B.-TOWNS Districts Tetal for areas. Lalhimpur Hailahandi Karimganj Goalpara Cachar ... Gauripue Newgong Sibragar Haftong Goalpara Kamrup Dhubri Gauhati Darrang Silchar

STATEMENT No. IV .- Deaths registered according to age in the districts (rural circles and towns) of Assam during the year 1950

		39															
	=		. ;	2 2	100	36	2	11	2	9	1 91	-		1,169	1:	22,633	1 :
	22	-	385	= =	111	39	=	22	16	i ii	15	1	: :	1,557	:	104,25	:
	100	:	*		11	*		**	10	-	*	-	:	126	1:	HI'S	:
	-	1	-	:	2	0	09	04	*	=======================================	**		:	230	1:	1631	:
	**	-	-	:		-	-	01	**	91		:	:	1 12	:	2,163	:
	**	**	15	1	9	-	-	:	C4	-	-	:	:	H	1 :	2,733	:
	04	-	- 00	-		-	*1	-	-	-	:	:	:	\$2	1:		
		:	30	00	11	*	:	:	:	**	**	:	:	179	:	2,912 2,206	1
	:	-	13			10	00	-	:	64	01	:	:	Ē	1:	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	:
	**	61	35	-	55	-	-	-	10		:	:		11	1:	2,972	:
	**	:	27	1	22	*	01	64	10	90	**	:	:	8	:	3,541 2,972 2,873	
	64	:	2	01	23	-	-	**	es	19	21	:	:	900	1	2,736	:
	-	01		**	11	-	94	:	:	81	:	:	:	108	1		:
	-	-	100	:	**	:	:	-	:	-	**	:		\$2	:	2,013 1,767 1,684 1,849	:
	**	:		-	-	:	**	:	:	**	:	:	:	23	:	1,467	:
	-	-	*	:	*	19	- 04	-	-	:	:	:	:	120	:	1,787	:
	-	:	02	-	*	61	1	:	:	*	01			65	:	2,013	:
	-	:	**	-	**	7	:	-	-	115	:		-	95	:	2,267	:
	-	:	-	**	11	**	:	*	**	113	**	:	:	101	:	4,120	:
		:	6	04	16	-	-	12	:	00	:	:	:	175	:	4,436	:
	10	1	13	58	45	14	*	+	*	1/9	10	:		293	55-39	11,061	100-45
		:	9	1	2	10	-	60	69	11	**	:		621	10	ne's	96-13
	**	-	1-	1	12	6	02	69	-	=	10	:		164	36-16	6,020	104-39
-	:	-	-	1	t-		-	:	1	0	*	:	:	16	:	2,583	:
-	:	:	:	-	m	-	:	:	:	*	69	:	:	22	:	1,192	:
	:	-	-	:	*	24	-	:	-	4	**	:	:	3	:	1,191	:
		:	10	:	17		-	-	7	103	**	:	:	111	:	4,026 1,191 1,192 2,583	:-
-	01	:	**	:	00	19	7	-	1	es.	1	:	>	3	:	1,865	:
	-	:	10	:	•	*	:	:	:	00	**	:	:	S		2,161	:
-	01	:	-	-	7	•	04	173	04	09	:		:	100	:	4,452	:
-	1	:	*	:	0	1	:	-	44	*	:	:	:	\$:	967 1,984 4,452 2,161 1,065	:
	-	:	-	:	10	:	:	1	1	**	:	:	:	8	:	296	:
-	:	:	~	:	*	-	:	:	1	-	:	:	:	30	:	166	:
-	-	:	~	1	22	"	04	01	:		:	:	:	22	:	2,468	:
20	-	:	**	:	00	00		01	:	*	:	:	:	9.	:		:
-	:	:	-	-		:	:	:	:	:	:	:	:	=	:	the 1,219 1,219	:
-	:	:	:	:	:	:	:	:	-	:	:	-		eg.		eq.	
				dai			-			rh	-	Doom Dooms	North Lakhimpur		Ratio per mille	ž.	Ratio per mille
	10 Palasbari	Nalbari	Terpar	Mangaldai	Nowgong	Joepat	16 Sibagar	Nazira	38 Golaghat	Dibeugarh	Tinsukia	Noom D	Vorth L	Total for towns.	Ratio p	Total State,	Ratio pe
	10 P		12 I		2 3	15 10	90	N N	18 G	19 10	20 T	II D	II II	-	-	-	

Ratio per : = : : Other classes 178 58 427 80 31 11 67 Number 10 Ratio : Buddhists 64 Number : : : Ratio : : Christians 136 13 15 23 81 Number 9 Ratio : : : : : Muslims Number 970 872 186 26 2,229 72 94 Ratio : : : : 2,224 376 1,480 229 1,533 1,298 8,267 1,127 Number : 1 : : : : : : Total for the State : Districts : 1 : : Lakhimpur Cachar ... Goalpara Nowgong Kamrup Darrang Sibsagar

STATEMENT No. IV(a)-Mortality under one year by classes in the districts of Assam for the year 1950.

STATEMENT No. V .- Deaths registered according to class in the districts of Assam during the year 1950.

						*1						
1	asses	1	Persons	10	1 52	1.01	-25	4.30	3.04	1-01	£.	19-1
1	Other classes	180	Pemale	34	.37	1.06	69	4.32	2.81	1-11	-59	1.63
1	0	13	Male	33	.12	1.12	107	4.12	3.26	1-60	1.08	1.54
	2	P	Persons	62	:	:	:	:	:	9-36	1.21	8.01
	Buddhists	1	Pennale	31	:	:	:	:	:	5.41	1.50	3-25
0	H		Male	30	:	:	:	:	:	9-02		4.75
Ratio of deaths per 1,000 population	ians	123	Persons	97	12.73	7.22	8.00	21.07	16.48	15-23	28.14	23-85
000 p	Christians		Ecmale	80	8	777	2.00	00-92	17-02	10-91	24-12	1 2 2
er 1,			Male	12		69.9	80-6	17-37		1.54		1 60
ths	-	1	Persons	56	1 %	0.75	1.84	7-55 17-37	7-14	7-70 14-57	2-51 21-01	3-27 22-09
fdea	Muslims	-	Female	255	57.9	3.50	90,7	8	19-93 17-14 15 26	35.0	10-9	81.58
tio o	Mu	1	Male	15.	18-93 16-74	00.6	1.00	200	16-34 19	1,03	4.24	3-21
Ra		1							16 10			
	sm	12	Persons	23	75 30-46	21 22-92	36 4.53	74 22-14	11.16	15 13-53	13.08	11-30
	Hindus	-	Female	04	30-75	34 21-21	19 4.36	71 22-74	11-11	14 14,15	14.19	99 11-15
-	- 40	1	Male	64	29.38	24.34	4-79	7 21-71	10-69	12-74	12.20	68.01
	Other classes	19	Persons	8	*	53 53 53	51	1,097	200	639	555	1,505 1,410 2,915
	dher d		Female	19	63	120	23	240	69 12 00	315	181	1,41
	ō	122	Male	18	-	138		557	281	324	176	
	10	100	Persons	17		:	:	:	:	28	7	3.2
	Buddhists	215	Female	16	:	:	:	:		10	60	13
	1		Male	15	:		:	:	:	18	-	19
		sus	Persons	14	=	130	16	295	67	198	213	930
		Total Christians	Lemale	13	60	10	(-a	156	935	96	98	466
	ians	CA	Male .	12	**	09	0,	139	60	102	119	464
bered	Christians	and a	Persons	=	:	:	:	0	:	:	:	
regis	0	Europeans and Anglo Indians	Ecmale	10	:	:	:	:	:	:	:	
saths	100	and Ir	olsM	6	:	:	:	:	:	:	:	:
T of de			Persons	60	4,059	3,886	683	906	1,183	393	110	5,118 11,220
Number of deaths registered	Muslims		Female	1	1,859	1,651	353	445	578	189	43	
	~		Маде	9	2,200	2,235	330	461	605	204	29	6,102
			Persons	10	6,884	7,013	3,153	7,702	3,215	11,376	6,554	,276 21,626 45,897
	Hindus		Female	+	3,329	2,949	1,405	3,596	1,547	5,591 11,376	3,209	11,626
	Hi	-	Male	60	3,555	4,064 2	1,748	4,106	1,668	5,785	3,345	2 ,276 2
			F	1	-	.:	:	:	-:	:	:	:
					;	0.				100		
				1								be St
			5 3 4 1		:	:	:		:	*		for th
		icts	E. B.		-	ara	dn	Sun	Suos	gar	impo	Total for the State
		Districts			Cachar	Goalpara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur	T
		nmper	N '	- 1	-	67	65	-	10	9	-	
			- 65	45 (77)								

STATEMENT No. VI. - Deaths registered from different causes in the districts and towns of Assam during the year 1950

	From all	years	Mean ratio previous five	31	1		:	:	:	1	:	:	:			:
ion	From	Acuta	Total for the	30			11.68	9-83	1-96	11-24	2.68	10-63	7-04			7.93
population		501	All other caus	29		12.4	3.78	90.	27	1-69	06.	2.77	2.52			55
d Jo 00			Injuries	25	1		e4 -	-03	0.0	-12	90.	91.	. 08		119	.0.
per 1,0		iseasei	Respiratory d	1-1		7 117	19.	-12	10.	52	-0.2	-80	29.			98.
deaths	грося	asid b	Dysentery an	500	-	1 7	80	-13	.03	-93	61	1-12	19.			55.
Ratio of deaths per 1,000 of			Fevers	25	1	13 1	60-9	9-20	1.45	7.84	4:14	5.59	3.00	1		\$-11
22	-		Plague	24	-		:	-	:	:	:	:	:	-	2	:
				11000			10.	800.	-	600		10.	-007			1
	-		xoq-llam2	23			91.	.00			:			-	1	200. 9
		_	Cholera	61		17	1 1		12.	20. 1	136	-15	3 -03	I		•16
			Total	22			10,482	10,882	2,877	2016	4,732	12,480	7,108			58,268
			Other causes	20			3,391	12	202	1,466	750	3,260	2,550		1	11,696
			IntoT	19	1		13	10	60	107	25	192	68		15	89
			Kabics	18			01	:	60	4	:	01	:			п
	Injuries	8	bas solenč Ismins bliW	17		2 1	7	:	01	11	9	21	10		of the	26
	In	*1228	Wounds and	16		T T	60	15	15	62	36	131	99	TR	HE	397
1		100000000000000000000000000000000000000	Ecmale	15			0.	6~	-	9	**	23	14			25
from		Suicide	Male	14			19	**	1-	100	60	77	14		10	96
Deaths from	8		Respiratory o	13			250	192	90	498	65	945	636		18	2,924
	rbosa	aid b	Бузепісту ап	12	0	8 2	8883	150	64	608	188	1,317	089		1	4,109
			Fevers	=	100		5,385	10,185	2,148	6,771	3,453	6,559	3,090		the state	37,591
	-		- Plague	10		1	- :	:	- :	:	:	:	:	-		:
			xoq-llam2	6			13	6	. 1	00	1	23	00		1	19
			Cholera	00			147	250	379	29	01 64 04	184	10	-	2	1,285
	-		Birth-rates	t-		-	22-40	11-69	3.65	20-62	10-51	22-17	13-77	-	6	14:27
			IstoT	9		7 1	20,096	12,033	5,339	17,779	8,760	26,011	13,897		Ber	104,815
Births			Female	10	-	0 0	199'6	5,802	2,575	8,523	4,188	12,489	6,852		MIN	50,070
-			Male				10,455	7,131	2,764	9,256	4,572	13,522	7,045			54,045
	tio	prinde	Estimated-po			11.00	897,043	1,106,286	1,459,066	862,922	833,769	1,173,975	1,009,239			7,342,300
		Districts		64		DISTRICTS EXCLUDING TOWNS	Cachar	Goalpara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur			Total for rural Circle.
-	Apo	mnN		-	1	DM	-		° 60	d. 4	N N	0	7		1 100	H

:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:		:	:	:	:		 1	:	:
11-76	16-84	14-71	64	14-43	10.49	13-92	16.65	11-67	11-74	3.43	20.46	89.68	15-75	4.40	3.10	8-43	5.20	3.58	2.74	7	:			16-95	8-03
4-72	7.28	8.03	.54	4-08	-16	3.18	7-67	3.19	6-12	. cs	94.9	64	8.08	1.35	.95	2.61	2.59	1.42	1.32	:	:			4.25	1.67
73	-39	68.	:	68.	64 65	91.	.50	.61	:	:	.42	:	1.43	.50	-23	:	:	£.	80.	:	:		1	.36	60.
52.	1.57	11.11	:	68.	.355	.57	-6.	1.53	-51	62.	500	1:24	1.30	*200	:	-59	:	-0.7	80.	:	:		1	96.	7
2.86	1-67	1-33	:	2.93	1:31	.57	1-63	1.83	.53	.25	7.37	1.24	1.10	**50	57	1.16	:	.62	.43	:	:		1	1.65	.29
2-21	1-97	2-67	2.50	5.43	85.9	9.02	2.64	3.76	4.59	1.32	3.46	3-30	1-82	1.69	1-67	4.36	2-91	.54	.70	7	:		1	100	5.05
:	:	:	:	:	:	:	:	:	1	1	1	:	:	-	:	:	:	:	:	1	:			:	:
55	-39	:	:	90-	.10	:		15.	55	.36	-07	:	.13	1:	:	:	:	.03	:	:	:			.12	.01
.20	3-54	99.	:	.12	.76	-16	.28	.35	:	:	.52	:	1.10	.13	:	1	:	:	:	:	:			85.	1-18
234	171	99	:	226	96	23	1.14	255	46	13	272	21	242	65	26	29	34	98	31	-	:			2,726	\$66,09
3	7.4	36	LO.	64	-	19	329	133	24	64	98	9	138	20	00	6	16	30	15					1,060	12,750
15	4	4	-	14	49	~	6	4	:	:	-	:	01 01	62	64	:	:	61	-	:	:			16	669
:	:	:	:	:	:	:	es	:	:	:	:	:	01	:	:	:		:	:	:	:			*	15
:	:	:	:		:	:	:	:	:	:	-	:	-	:	:	:	:	:	:	:	:			61	58
15	4	4	:	14	0.0	:	9	60	:	:	9	:	16	64	64	:	:	-	-	:	:			16	473
:	:	:	:	:	:	-	-	:	:	:	:	:	6.9	-	:	:	:	:	:	:	:			ro	89
:	:	:	:	:	-	:	:	-	:	:	:	:	-	:	:	:	:	-	4:	:	:			7	96
15	16	ro	:	77		-	42	33	61	60	31	00	20	1/3	:		:	2.5		:	:			64	3,148
57	11	9	:	99	12	7	70	ĝ.	-	04	96	4	17	00	61	4	:	17	9	:	:			413	4,522
4	20	122	4	85	63	54	242	98	18	10	46	00	50	25	14	15	18	15	60	-	:			8111	38,402
:	:	:	:	:	1	:	:	-	:	1:	;	:	:	:	:	:	:	:	:	:	1			:	1:
10	*	:		1	-		10	10	1	-	4	:	:	01	:	:	:	:	:	:	:			64	93
4	36	60	:	61	Į-a	1	12	00	:	:	2		17	01	:	:	:	:	:	:	:			56	1,380
43-07	27-18	20.06	14.68	21-73	18.16	19-54	14-13	30-94	27.32	20.9	24.38	11-16	43.58	14-70	0.33	25-87	14.25	50-48	7.7	7.19	:			21.25	
857	-	06	27	341	167	1117	909	707	107	65	324	27	899	217	10	68	80	381	80	19				5,289	52,439 110,104 14:50
386	143	39	6	150	19	46	52	303	46	00	119	11	296	112	37	69	579	173	46	12	:			2,369	52,439
471	133	21	18	191	100	11	334	404	19	15	202	16	372	105	23	97	43	208	42	t-	:			2,920	57,665
19.896	10,151	4,486	1,838	15,652	9,149	5,960	42,878	22,844	3,916	3,783	13,289	2,419	15,361	14,752	8,383	3,439	6,175	27,353	11,306	2,438	3,415			248,883	7,591,183
	: :	: :	:	:	:	:	-:	:	:				:	:	:	:	:	:	:	ma	-min			pe Pe	-
TOWNS	Karimeani	Hailakandi	Haffong	Dhubri	Goalpara	Gauripur	Gauhati	Barpeta	Palasbari			Mangaldai	Nowgong	hat	ja.		Golaghat	Dibrugarh	Tinsukia	21 Doom Dooma	North Lakhim-			Total for the	Total for the
									Pals	11 Nalbari	Tezour	Ma		Jorhat	Sibe	Naz	Gol	Dib	Tin	Doo	North	_		Tot	Tot
	. 01	. 00	-49	1/3	-0	E-	- 03	0	10	-	64	90	7	177	16	1	18	10	50	- 04	22				

SUPPLEMENTARY (OPTIONAL)

					Cercl spir feve	nal	Typh	ius er	Mal	aria	Enter		Mean	sles	Rela sing feve		Kala-a	ızar	Influ	enza	Bla wa fev	ter	Oth	
	Tow	nı			Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio
-	9	1				2	No.	3	4		5			6	3		8		9	3	1	0	11	1
	7														1	1	8		1		-	100		
en de					3				14		5						5		1				16	
Silchar		**	**				1.		10								1						9	
Karimganj							1		3				1										7	
Hailakandi	**	**	**								-									**			4	
Hafleng			***						9		5								3				68	
Dhubri				**			2		23				2				2		**				34	
Goalpara									14	1													40	
Gauripur	**								18		16				5		22						191	
Gauhati	**						15		21		9				1		1		2				37	
Barpeta	**	**			1				3						1					**			14	
Palasbari					**		1		2											1			3	1
Nalbari						1	2		7		4						3		1				29	1
Tezpur	**				1				17	2.													8	13
Mangaldai	**	**,	**	**		1	1		6		5						5						11	1
Nowgong				4.5	-		1		3				1						2				19	
Jorhat	-44					1.		"	1	**	**	0.00		1									13	1
Sibsagar	**					1	**		1		**												15	1
Nazira				**	1	1					**		-						1			13.	9	
Golaghat	-7	**	1115	***	1.	1			8				28		1	1					1			1
Dibrugarh			**		1	1.	**	1	14		**	1											1	
Tinsukia				**	1	1	-		7		1					1								
Deom Doom					1	1										1						1		
Norh Lakhim	pur				1			1 .						1		-	**	1		1	1200	L	1	

STATEMENT No. VI(a) FOR THE YEAR 1950-continued.

	sen-		ar- ioea	Pne	umo	Tub	lmo- ary ercu- sis	i	ng ugh	Ph	thist.	res	her pira- ory cases	d	caths ue to hild- rths	Di	pth- ieria	Ch	iken ox	Mu	imps	Lep	prosy	cul	ber- losis of oints	tub	ther percu- ar- ease	Ca	ince
Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio	Deaths	Ratio
1:	2	1	3		14	1	5	1	16		17	100	18	-	9	20		21	-	22	-	23	-	24		25	-	26	
					100	180						188	100		100	14										1981			
34		23		3		6		1				5		9		2				1		2							
12		5		4			1					12		7															
4		2		4								1		2															
•••	**																			**									
35		11		5		7						2		6		***												••	
8		4		2		1		**		**					**						••	**		**	**	**		••	
36	**	34		27		8						3	***			**										••			
25		27		16		1		4		**		7		19															
1				1				1					**	6		**		5			**	**	**						
		2		1								2		1															
89		9		9		12						10		4												6		3	
2		2		2		1										160													
12		5		13		2		2				3		7										10		1			
6	••	2		3								2		2		1												1	
2																													
3		1						1																					
	••																											1	
15		2	**	13	**	1				2		8		1															
5		1		1										2		1													
							. 1									11	*		**					•••					

10. .13 .18 Mean ratio per 1,000 of previous 5 years 11. .18 .28 *****0. .05 Total Ratio of deaths per 1,000 of population 0.4 Lemale .12 .05 .17 0.0 Male 1,380 Total Total Female Male **Decemper** November : October September 1sn8ny Amf panf = May InqA March Pebruary. January Number from which deaths from cholers were reported Villages 2,596 18,007 2,865 2,037 2,391 2,324 2,029 Number in each district Number from which deaths from cholera were reported Circles of Registration Number in each district Total for State. Districts Lakhimpur Nowgong Sibsagar Kamrup Goalpara Darrang Cachar -No.

STATEMENT NO. VII. - Deaths registered from Cholera in the districts of Assam during each month of the year 1950

Mean ratio per 1,000 of popula-tion of previous five years .12 0.5 11. 5.7 0.5 05 25 27 per 800-0.5 0. 10 .02 0 Total 56 Ratio of deaths 1,000 of population 007 0 0 0 0 0 Female 13 800 800 0005 .02 9 .02 10 2 Male Number of deaths among children 69 : Oue to 10 years : : 24 : : Under one year 63 0 23 0 93 53 Into T 2 9 11 55 Lemaje 20 Total 13 te 48 Male 19 18 9 9 Decemper 20 17 60 Мочетьег 91 en: : : 3 October 12 04 ÷. September 17 1snSny 04 w : : 00 : 9 : 22 00 00 Amf 61 10 13 60 aun[9 00 60 13 May April 01 March 00 : 01 February 01 ıń. 0.0 January : Number from which deaths from small-pox were reported Villages 2,865 18,007 2,029 2,037 2,391 2,596 Number in each district 10 Number from which deaths from small-pox Circles of Registration 13 9 91 102 Number in each district Total for State. Distracts Lakhimpur Nowgong Goalpara Sibsagar Darrang Kamrup Cachar NO. 9 1-Number

STATEMENT No. VIII, - Deaths registered from Small-box in the districts of Assam during each month of the year 1950

previou.	Mean ratio per 1,000 of five years	SI .	7-96	10.03	3-09	80.55	5.56	0.40	372	60.8
s per	Total	24	5.83	9-13	1.63	7-76	4.10	5.49	2-95	5.05
Ratio of deaths per 1,000 of population	Female	23	6.22	8.43	1.59	7-79	4.16	5.43	3-10	5.02
Ratio o 1,000 o	Male	22	5.57	9.75	1-66	7-73	4.04	5.24	2.64	2.80
	lstoT	21	5,465	16,387	2,499	6,825	3,481	6,631	3,114	38,402
Total	Female	20	2,501	4,497	1,129	3,213	1,637	3,080	1,443	17,500
- 4	Male	19	2,964	5,890	1,370	3,612	1,844	3,551	1,671	20,902
-	December	18	620	968	143	508	261	482	194	3,104
	November	11	492	783	111	414	160	495	240	2,716
	October	16.	109	781	173	571	149	442	422	3,139
	September	15	505	619	193	524	246	532	226	2,905
116	August	11	527	985	297	8 27	252	563	209	3,660
	July	13	457	1,003	704	824	356	824	309	4,181
	June	12	477	573	324	587	255	731	405	3,352
	May	=	50 20 00	1,084	373	199	304	877	392	4,022
1	lingA	10	245	696	128	464	278	669	188	2,771
-	Магер	6	267	199	80	440	452	320	160	2,382
	Echristy	60	426	986	70	317	270	391	186	2,646
	Arenae	(-	520	1,031	132	685	498	475	183	3,524
2	Number from which deaths from fevers were reported	9	:	:	:	:	:	:	:	:
Villages	Number in each district	10	2,029	3,765	2,865	2,037	2,391	2,324	2,596	18,007
	Number from which deaths from fevers were reported	+	:		:	:	9 3	:	:	1:
2 0	Number in each district	100	16	14	17	13	11	15	16	102
	Districts	04	Cachar	Goalpara	Kamrup	Darrang	Nowgong	Sibagar	Lakhimpur	Total for the State
-	Number	-	-	61	6	*	49	9	-	

STATEMENT No. IX. - Deaths registered from Fevers in the districts of Assam during each month of the year 1950

	Districts	74	Cachar	Goalpara	Kamrup	Darrang	Nowgong	Sibsagar	Lakhimpur	Total for the State
25	Number in each district		:	:	:	:	:	:	:	
Circles of registration	Number from which deaths bas assurance and		16	14	11	13		15	16	102
30	Number in each district		2,029	3,765	2,865	2,037	2,391	2,32	2,596	18,007
Villages	Number from which deaths from Dysentery and Diarrhoea were reported	9		-:	Lipin		10		96	
	Jenner	-	06	22	112	39	29	11		283
	February	80	11 11	1 13	18	9 42	61 6	1 53	18 37	3 253
2 4	Удиср	6	20	10	21	32	29	11	31	250
	lingA	10	62	17	00	55	19	113	59	333
	Май	11	00	12	40	103	53	170	96	246
3 1	aunf	12	ш	36	29	72	20	170	16	514
0. 1	April	13	86	12	60	193	17	118	58	542
1	1suguA	14	87	18	14	112	S	113	9	389
0.3	September	15	19	п	10	70	12	120	20	65 65 65
	Octoper	16	109	9	6	62	6	134	113	441
	November	17	19	13	13	16	6	104	19	361
3 3	Maje W Maje	90	57	31	10	37	00	88	04 25	258
Total	7 7 7 7 7	19	517	133	1114	514	97	689	360	2,424
75	Lemale	30	446	19	23	397	108	642	343	2,098
	IstoT	21	963	272	161	917	202	1,331	703	4,522
Ratio of deaths per 1,000 of population	Male	21	16.	52	.13	1.10	.20	1.07	95.	80
deaths	Lemale	23	1-15	-14	Ŧ	96.	.28	L III	09.	
1	Total	24	1.03	81.	62	1.36	-24	1.10 1.	99	.20
10	Mean ratio per 1,000	25	1-05	.00	-16	-83	19.	-33	-8.1	1.85

STATEMENT No. X. - Deaths registered from Dysentery and Diarrhoea in the Districts of Assam during each month of the year 1950

Mean ratio per 1,000 of previous five years .26 .40 .77 -83 IntoT Ratio of deaths per of population 19. ES. Female Male Total 1,380 Total Lemale 1,768 Male December November October September August = July aunſ May = April March Pebruary January Number from which deaths from respiratory diseases were reported Villages 2,037 18,007 2,391 2,324 Number in each district Circles of registra-tion Number from which deaths from respiratory discases were reported Number in each district Total for state, Lakhimpur. Districts Goalpara Darrang Kamrup Cachar Number

STATEMENT No.XI.-Deaths registered from Respiratory diseases in the districts of Assam during each month of the year 1950

STATEMENT No. XII. - Deaths registered from Plague in the districts of Assam during each month of the year 1950

Lanc co		1		
eres years	Mean Ratio per 1,000 of previous	য়	1111111	:
per	betsons	27	1111111	:
Ratio of deaths per 1,000 of population	Pennale	23	1111 11	:
Ratio o 1,000	blalc	21	1111111	:
Thu San Charles	Persons	21	1111111	:
Total	Female	20		:
	Male M	19	0 14 1 14 1 1	:
	December	18	1111111	:
	November	17	81111111	logo
	October	16	1111111	1
	September	15	M	:
	August	14		:
1	July	13	0011111111	1
	June	12	1111111	:
2 14	May	=	1111111	:
100	o lingA	10		1
00	March	6		:
-15	February	60		1
21	Arenauf	1	1111111	:
0	Number from which deaths from plague were reported	9	1111111	i kaon
Villages	Number in each district	LO .	2,596 2,596 2,596 2,596 2,596	18,007
es of ration	Number from which deaths from plague were reported	4	1111111	:
Circles of Registration	Number in each district	09		102
	Districts	01	Gachar Goalpara Barang Darrang Nowgong Sibsagar Lakhimpur	Total for the State
	aqunh	-	1004000	

APPENDIX I

Statement showing details of registration in the compulsory areas

			1,000 ccn	ed during	ille		De during th	aths he year	Death-ra mill	ate per
			betw nd 40	gister	per m		.s	S	.5	.s
Compularegistration	sory	opulation	births per 1,000 d women between ages 15 and 40	births re	birth rate	er mille	deaths	deaths	deaths	deaths
	1916	Estimated population	Estimated	Number of births registered during the year	Estimated birth rate per mille	Birth-rate per mille	Including	Excluding hospitals	Including	Extuding
1		2	3	4	5	6	7	8	9	10
Silchar	11	32,314	6	766		23.86	231		7.31	
Hailakandi		7,706		90		12.85	66		9.42	
Haflong		2,099		21		10.51	5		2.52	
Karimganj		17,970		288		16.10	171		9.50	
Dhubri		21,779		341		16-23	224		10.66	
Goalpara		9,953		167		16.61	88		8.71	
Gauripur		7,464	2	116		16.57	81		11.57	
Gauhati		42,214		586	-	13.91	714		17.00	
Barpeta		20,870		790	18	39.51	256		11.61	
Palasbari		4,605	23	110	1	22.12	47	=	9.41	
Nalbari		4,338		77		19.25	26		6.52	
Tezpur		18,180		568		31.55	- 264		14.62	
Mangaldai	1111	3,424	lable	138	lable	45.12	32	available	10.28	lable
Nowgong	113	26,729	Not available	560	Not available	21.51	232		8-98	Not available
Jorhat	1111	15,714	Not	94	Not	5.87	68	Not	4.12	No
Sibsagar		10,316		80		7.82	27		2.64	
Nazira		4,169		110		21.51	30		7.52	
Golaghat		8,002		133		16.62	35		4.12	
Dibrugarh		36,511	- 3	319	100	8.86	98		2.43	
Tinsukia	82222	11,855		72		6.10	29		2.42	
Doom Door	na	3,007	- 3	35	Server 9	11.51	1		.31	
North Lak	himpur	3,064		8	The same	2.62	5		1.60	
		200		annine (340	1				
		3				1				
	Total	312,283								

APPENDIX II

Table showing Public Health Services in Rural and Urban Areas in the State of Assam during the year 1950

					3	33											
Working both in Urban and Rural areas			Other staff	80 e4	1 District Medical Officer of Health, 2 Subdivi- sional Medical Officers of Health and 5 Assis-	1 District Medical Officer of Health, 1 Subdivisional Medical Officer of Health and 10 Assistant	District Medical Officer of Health, 1 Subdivision- al Medical Officer of Health and 12 Assistant	District Medical Officer of Health, 1 Subdivision- al Medical Officer of Health and 5 Assistant Suppose 11	1 District Medical Officer of Health, 20 Assistant Surreems II.	1 District Medical Officer of Health, 2 Subdivisional Medical Officers of Health, 21 Assistant Sur-	Dis	Surgeons II. 5 Assistant Surgeons II.	Assistant Surgeon II (V.D.), 1 Biochemist (P. H.		:		:
oth in U		\$10	Tuberculosis Health Visit	04 01	:	:	01	:	:	7		:	:	:	:	:	:
rking b			Malaria Inspectors	22	:	:	-	-	-	:	-	;	ţ=	:	1	04	:
Wo			Rural Health Inspectors	29	13	13	15	11	10	19	13	60	65	64	94	03	:
		11	Lady Assistant Sergeons	19	:	:	:	-	1	-		:	-	:	:		:
	Vaccinators		Lemale	18	:	:	:		:	:	:	:	:	:	:	:	:
	Vacci		Male	17	N)	03	es	00	00	*	63		01	:	:	:	:
		1 1	Urban Health Officer	91	01	-	-	1 1	-	1	-	:	:	:	:	:	:
Urban areas	Fealth	Licentiate L. P. H.	Part time	12	:	:	:	:	:	1	:	:	:	:	:	:	1
Urb	ledical Officers of Health	Licer L. I	Whole time	14	:	:	:	:	:	:	:	:		:	:	:	
	AL OFF	Holding D. P. H.	Part time	13	:	:	:	:	:	:	:	:	:	:	:	:	19
-	Medic	H _o l	Whole time	12	:	:	:	:	:	:	:	:	:	:	:	:	:
	(210)	oodsuI nin	Other Health staff (Malan	=	:	*	1	:	:	-	~	:		-	:	1	:
	1	: !	Health Assistants	10	10	13	13	10	10	=	12	1000		:	:	:	:
	Vaccinators		Female	6	:	:	:	:	:	:	:	:	:	:	:	:	:
0	Vacc	: 1	Malc	00	40	4	80	51	30	48	20	(4	Į.	7	65	1	:
areas	-		Sanitary Inspectors	6-	:	:	:		:	:	:	:	:	:	:	1	:
Rural areas	- a		A. S. II Epidemic Units at	9		-	124		1						:	-	-
	f Healt	Licentiate L. P. H.	Part time	10	:	:		:	:	:	:	:	:	-	:	-	:
	fficers o		- Smit olodW.	4			-		:	:	:	:		:		:	:
-	Medical Officers of Health	Holding D. P. H.	Part time	60	:	-	-	1	100	-	:	:	:	:	:	-	:
-	Mee	=0	Whole time	61	:	-	:	-	:	:		:	:	:	:	:	:
there's									:	:	:	:	25	:			
Collegen Rooden		Districts	Cote 1833.	1 Spending 1	Cachar	Goalpara	Kamrup	Darrang	:	Sibsagar	Lakhimpur	Garo Hills	Khasi and Jaintia Hills		Lushai Hills	Sadiya Frontier Tract	Balipara Frontier Tract

Plus one D, M. O. H. leave reserved.

APPENDIX III

Table showing Maternity and Child Welfares. Health Visitors and Trained Mid-wives in Rural and Urban Areas in Assam during the year 1950

The state of the s	-					-		-			-	-				-	-	-
- L NOON							M	faternity and	Child Welfa	re Centres ms	Maternity and Child Welfare Centres maintained by-				Staff	STREET, ST.		
		Districts	E				Gowrnment	ment	Local and l	and Municipal bodies	Other	Other agents	Trained midwives	nidwives	Trained	Trained visitors	Traine	Trained dhais
							Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
			1				61	3	7	10	9	-	60	6	10	11	12	13
Cachar	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:		:
Goalpara	:	:	:	:	:	:,	:	1	:	*	:	:	:	:			:	
Kamrup	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:			
Darrang	:	:	:	:	:	:	1	:	:	:	:	:	-	:		Manager State	-	-
Nowgong	:	:	:	:	:	:	1	:	1:11		:	:	7	:	:	:	-	:
Sibsagar	:	:	:	:	:,,,	:	1	:	100	:		200	1	-	:	:	-	:
Lakhimpur	:	:	:	:	1	:	:	-	11.77	or pro-	:		110		:	:	:	:
Garo Hills	:	:	:	:	:	:	:	:	:	:		:	:	:	:	:	:	:
Khasi and Jaintia Hills	Hills	:	:	:	:	:	1	:	:	:	:	:	01		:	:	61	:
Naga Hills	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Lushai Hills	:	:	:	1:	:	:	:	:	:		:		:	:	:	:	:	:
Sadiya Frontier Tract	Tract	:	:	:	:	:	:	:	:	:		:	:	:	:		:	:
Balipara Frontier Tract	r Tract	:	:	:	1	:	:	:		:	:	:	:	:	:	:	:	:

GOVERNMENT OF ASSAM

Vital Statistics of Assam since the year 1876-1950

VITAL STATISTICS OF ASSAM SINCE THE YEAR 1876.

Area-27,666 square miles; Population-Census 1881-45,27,934.

Census 1891-50,21,084.

Census 1901-52,75,706.

Census 1911-60,51,507.

Census 1921-79,90,246.

Census 1931-92,47,859.

Census 1941-10,930,388.

	-		Serial number	36	1-	64	00	*	2	9	-
			Kemarks	10							
		=	Ratio per 1,000	32	20-3	10-9	9.5	15-25	13.61	15.04	11:51
		Total	Number Registered	64	2,010	41,716	34,929	57,844	51,666	71,941	115,020
		causes	Ratio per 1,000	63	:	1.0	.00	1-22	:	2.33	3.62
		Other causes	Number Registered	21	511	3,825	3,254	4,640	:	10,450	16,228
	-	4	Ratio per 1,000	20	50	64	ċ,	.20	:	-22	.36
		Injury	Number Registered	19	3.8	733	842	821	:	934	1,150
		tory	Ratio per I,000	18	:	:	:	:	:	:	:
7		Respiratory	Number Registered	17	76	:	-				:
	Deaths	y and	Ratio per 1,000	16	3.9	1.5	1.5	1.19	2.06	2.30	\$14
	1	Dysentery and Diarrhaea	Number Registered	15	561	5,809	5,689	6,819	7,825	9,865	14,074
	ISS	ızar	Ratio per 1,000	z	:	-	E.	Ž.	V.	:	:
	259	Kala-azar	Number Registered	13	:	:	:	:	:	:	:
		2	Ratio per 1,000	129	15-1	4.9			8.24	69-6	13-43
		Fevers	Number Registered	=	1,452	18,715	17,398	26,731	31,272	42,553	60,218
		ans	Ratio per 1,000	10	:	:	:	:	:	:	:
		Plague	Number Registered	6	:	:	:	:	:	:	:
		Small pox	Ratio per 1,000 -	00	7	÷		.37	65.	69.	11.
		Smal	Number Registered	1	65	1,260	1,014	1,418	2,239	3,129	3,195
		ura -	Ratio per 1,000	9	1.8	2.9	7.00	4.29	14.	1.12	4.69
		Cholera	Number Registered	10	269	11,377	6,732	17,415	2,803	5,010	21,055
		stnst	Ratio per 1,600 of inhabi	4	18.6	20-9	19.6	18-22	26.09	19.25	26.34
	Births		Number Registered	67	2,661	2,539	2,856	1 96	1,067	43,255	85,535
			703.[64	1876	1877	1878	1879	1880	1881	1881
1				-	-	64	60	*	10	9	-

- Serial number

57		
51		
31		

- 60	6	3.0	n	12	13	12	15	16	11	18	19	20	12	61	. 22	22	25	26	27	538		62	30	31	32	33	34
									Salamine N				Louise	Discourage of						Plague	at Dibru- garh town with 37 attacks and 28 deaths.						One died of plague.
27-14	29-37	27-91	27-77	24.52	27.98	30-70	\$9.62	29 91	34.21	30.28	30-69	33-72	36.33	20.61	36-15	31-10	30-64	27 81	29-01	26.55	Halle-bury's	25-85	28.43	30-62	25-59	35-26	32-93
122,932	132,992	126,344	125,726	111,015	126,654	138,986	134,195	150,156	171,784	152,081	154,091	169,304	182,417	254,093	181,527	156,595	161,631	143,733	153,070	140,069	Companya sin	136,392	150,000	161,543	153,024	185,891	173,777
4-12	4.87	5.16	4.64	69.7	2.68	90.9	91.9	6.36	7-39	9.99	96.9	7.31	8-16	9-03	8-43	16-1	8.07	7.40	8.04	8.13	Retin party	8-33	1.68	11.9	83.59	7.20	6.85
18,655	22,071	23,360	22,386	21,219	26,595	27,446	27,875	31,933	37,108	33,433	34,953	36,726	40,988	45,340	42,305	39,957	42,564	38,271	42,428	42,860	Nomiles May	43,963	40,525	35,708	31,047	17,988	36,148
-21	.26	-30	.40	.37	.39	7	.38	.35	.40	.34	.35	989	.32	.53	.34	-38	-34	.38	.35	.33	in many	.35	.33	.36	.36	.33	.37
1,239	1,180	1,376	1,818	1,676	1,756	1,835	1,129	1,597	2,016	1,840	1,773	1,885	1,592	2,650	1,672	1,762	1,778	1,715	1,835	1,745	Secondary Sec.	1,693	1,770	1,901	1,884	1,779	1,953
-:		:	:	3	1	1	:	:	:	:	:	:	:	:	:		:	:	ī.	80.	Separation of	-14	-53	.31	60	.57	60-
:	:	:	;	:	8:	;	:	:	:	:	:	:	:	:	:		:	:	584	445	Zingilar M	136	1,246	1,654	2,048	3,056	3,652
3.19	3.57	4.92	3-74	3.07	3.52	3.55	2.87	29.62	3.12	2-96	2-94	3-09	3.19	4.61	3.53	2.74	90.07	2.16	2.13	1.99	Aprilio ber 32	2.21	2.59	2.05	2.43	3.43	3.29
14,474	16,157	19,396	16,913	13,912	14,726	16,048	13,015	14,418	15,685	14,853	14,769	15,5:3	16,004	23,136	16,239	13,835	14,996	11,166	11,213	10,516	goni por que	11,682	13,696	14,911	12,753	18,120	17,399
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14.90	14.69	10-91	14-10	14-38	15-87	16.15	16-52	15-13	18-72	15.42	16.95	18-39	20.18	28.74	20-90	18-04	14-70	15-88	14-72	14-22	gree last	13-49	12.82	13.39	14.03	18-57	19.60
67,494	66,527	72,482	63,857	65,105	71,825	73,214	74,779	75,965	93,971	77,463	85,102	92,359	101,347	144,307	104,963	960'16	77,557	82,048	17,679	75,004	Number House	11,171	67,651	70,693	74,147	97,961	103,430
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1.36	1.06	.44	-12	.26	.45	.49	.31	.47	.29	.54	08.	-77	1.09	1.08	1.03	.31	.18	.63	1.26	.21	grap ha gr	.30	.42	-57	.80	-87	-59
662	4,781	1,980	564	1,162	2,059	2,245	1,404	2,361	1,452	2,643	3,997	3,849	5,444	5,420	5,199	1,565	975	3,251	6,473	1,111	some to	1,559	2,229	2,994	4,253	4,599	3,113
3.29	4.92	17.1	4.47	1-75	2:14	4.01	3.40	4.76	4.59	4.35	5.69	3.78	3.39	6.62	20.00	1.66	4:51	1-41	2-40	1-58	Sele per	1.06	4.33	6.38	1.68	4.24	1.53
14,908	22,276	7,753	20,188	7,941	9,693	18,238	15,396	23,882	21,552	21,894	13,497	18,962	17,042	33,240	11,149	8,380	23,761	7,282	12,658	8,360	Statem B.	8,360	22,883	33,682	8,892	22,388	8,081
23-91	26.61	27.95	27-45	28-59	31-62	31.20	30-56	28-59	31-05	30-15	31.10	31-00	33.69	32.59	29-46	35-45	34.96	33.98	34.21	35.57	Retopola	35-55	36-52	3.489	35-78	38-43	35-55
108,269	120,483	126,566	124,743	129,449	143,153	141,236	138,326	143,548	155,909	151,391	156,153	155,631	169,172	163,617	147,889	179,027	184,427	179,289	180,475	187,669	Danies J.	187,539	192,671	184,100	188,779	202,739	187,582
1883	1884	1885	1886	1887	1888	1889	1890	1881	1892	1393	1681	1895	1896	1897	1898	1899	1900	1961	1902	1503	Trans.	1904	1905	1906	1907	1908	1909
80	6	10	11	120	13	14	15	16	17	38	19	20	21	21	23	24	25	26	22	64	Seriet ann	50	30	31	62 60	33	34

*	11 11	berial number	26	35	36	37	98	39	40	17	42	3	2	45	9	47	89 7	67	20	70	52
Tolk sho		Remarks	25					One died of plague.				Two died of									
		Ratio per 1,900	25	34.37	23-61	25.04	24.66	21.66	30-86	28-59	27.09	46.10	20.09	28.98	26-48	26.85	23.54	27.30	22.51	23.02	23.47
Total		Number Registered	- 23	181,317	142,915	151,566	167,379	149,244	186,778	173,038	163,925	279,034	303,133	175,403	181,513	184,057	161,332	187,128	157,351	157,787	160,813
70	auses	Ratio per 1,600	\$1	98.9	2.68	5.89	6.41	5-75	92.9	90.9	2.60	19.9	1.04	5-41	5-11	4.75	4.40	4.84	4.46	99.4	62.4
1	Other causes	Number Registered	21	36,198	34,366	35,664	38,793	34,827	40,925	36,559	33,897	40,202	42,583	92,765	25,036	32,618	30,172	33,296	30,607	31,955	32,862
	-	Ratio per 1,000	20	138	.35	.31	.30	.30	.36	.38	.33	25.	.34	64	.23	-27	60	.29	.58	00	-22
1	Injury	Number Registered	19	1,847	1,964	1,886	1,857	1,840	2,205	2,338	1,997	2,021	2,114	1,981	1,223	1,874	1,933	2,037	1,961	1,941	1,871
	tory	Ratio per 1,000	00	89	.53	-57	11.	99.	00	760	68.	90.8	7-98	2.14	1.42	1-22	66.	86.	.81	-77-	.85
	Respiratory	Number Registered	17	3,621	3,182	3,458	4,300	4,013	4,327	5,109	5,387	48,833	48,312	12,956	9,783	8,405	6,830	6,708	5,602	5,300	5,658
2	ry and hoea	Ratio per 1,060	16	3.00	2.20	2.19	2.62	2.53	2.66	2.5	1-99	2-97	3.35	1.84	1.68	1.49	1.33	1.62	1.34	1-43	1.52
THE STATE OF THE S	Dysentery and Diarrhoea	Number Registered	15	15,832	13,345	13,241	15,869	13,519	16,122	15,651	12,057	12,560	20,277	11,143	11,542	10,237	601'6	11,159	9,188	787,6	10,469
	Kala-azar	Ratio per 1,000	14	:	:	:		:	:	:	:	:	:		:	:	:	:	:	:	:
Deaths	Kala	Number Registered	13	2,393	2,051	1,875	1,798	1,298	1,233	1,248	15,211	1,981	1,667	2,798	2,987	2,292	4,131	5,585	6,365	3,827	2,505
100	8	Ratio per 1,000	122	16.36	13-35	12:94	14-43	13-75	18-16	16.02	15-78	26.25	25.52	18-57	15.70	16.35	15.52	16.52	14.30	13.67	13.03
	Fevers	Number Registered	=	87,330	50,804	78,318	87,359	83,199	91,739	96,963	95,518	158,892	154,432	112,437	107,626	112,094	106,347	113,198	98,015	93,689	89,324
	Plague	Ratio per 1,000	10	:	:	:	:	.0001	:	:	:	.0003	:	:	:	:	:	:	:	:	
	Pla	Number Registered	6	:	:	:	:	-	:	:	;	ė4	:		:	:	:	*	:	:	:
-	xod	Ratio per 1,000	00	98.	-29	.77	9%.	.45	19.	25.	89.	07-	.00	.20	01.	.38	.47	-24	.40	.77	92.
1	Small pox	Number Registered	1	1,927	1,779	4,696	2,794	2,575	4,076	3,321	4,116	2,447	1,432	1,700	2,774	2,610	3,213	1,649	2,745	4,810	5,237
1	cra	Ratio per 1,990	9	6.54	1.23	2:36	2-71	1.53	4.46	2.16	1.81	2.32	5.61	07.	1.87	2:36	\$5.	2.79	06.	1.49	2.24
Tion.	Cholera	Number Registered	10	34,512	7,475	14,303	16,407	9,270	26,979	13,099	10,953	14,077	33,980	3,421	12,829	16,219	3,728	19,182	6,233	10,275	15,392
1	noit	Ratio per 1,000 of popula	4	36.52	31-98	32.16	33-06	32.94	33.60	30.52	31.35	34-98	30-52	31.53	29-63	28.43	28.82	31.04	29.08	30-82	30-25
Births		Number Registered	62	192,702	193,560	194,676	200,075	199,343	203,336	184,739	189,941	711,111	184,738	190,835	203,153	194,888	197,518	212,755	199,261	211,233	207,289
- Section		Деят	01	1910	1161	1912	1913	1914	1915	9161	1917	1918	9161	1920	1921	1922	1923	1924	1925	1226	1927
1 2	2 :	Serial number	-	55	36	37	38	39	9	7	42	3	2	45	46	47	48	49	20	51	52

	22	54	55	95	57	92	29	3	19	62	63	64	65	99	19	89	69	10	11	130		13	74	75
		-			100															Total popu-	ration of reconstituted Assum according to 1941 Cen-	0 8,199,659.		PRIOR S
-	22-16	20-91	21.40	18.68	18 76	20.31	19.64	21-41	19-63	22.21	27-42	19-25	17.20	16-75	15-42	16.34	16.87	13-37	11.37	8-75	-	8.00	8-60	2.96
15	151,859	143,283	146,619	148,117	150,321	101,054	155,701	169,723	155,601	176,054	117,767	164,119	148,864	158,616	148,240	159,591	167,208	134,536	116,081	63,494	A STATE OF	62,636	64,348	67,178
	4.57	4.78	4.67	3.99	3.91	4.36	4.40	4.43	4.59	4.14	4.75	4.16	90.9	3.83	3.35	3.24	3.00	2.60	27 70	1-98	10000	2.07	1-90	1.85
	31,289	32,783	32,003	31,641	31,060	34,596	24,860	35,019	34,002	37,558	37,694	35,498	35,144	36,237	32,096	31,561	29,715	26,008	28,305	14,337	on its	15,:66	14,233	12,382
-	-27	.31	60	-24	-93	.27	-29	-25	- 26	0.54	0.25	0-22	.21	.19		.16	.17	.13	-12	60.	carrier	.10	60.	60.
-	1,821	2,111	1,925	1,876	1,849	2,102	2,317	2,051	2,042	1,910	2,031	1,893	1,795	1,830	1,730	1,552	1,655	1,22,1	1,176	199	tra anches	783	746	752
	60	-85	98.	-74	89.	69.	-81	68-	-81	0.85	0-87	0.10	.59	.51	11.	69.	99.	-32	.37	7.		-18	99.	.52
	5,615	5,794	5,857	5,895	5,358	5,444	6,440	7,022	6,425	6,702	6,374	5,981	5,075	4,782	4,256	4,816	4,520	3,561	3,822	2,966	Contraction	4,473	3,292	3,941
-	1:24	1-41	1.39	1.19	1.04	1-17	1.02	1.38	1-40	1.62	1.50	1-37	1.04	1-00	60-	1.08	1.12	88	99.	-47	-77	.54	-72	99.
-	8,591	9,662	9,520	9,399	8,241	9,267	8,195	10,947	11,113	12,882	11,925	11,641	8,964	6,489	9,538	10,577	11,100	8,886	6,781	3,462	Transie of	4,444	5,318	5,056
-	:	:	i	:	:	:	:	:	:	:	:	:	:	;	:	:	:	:	:	:	Del Series	:	:	:
	1,500	1,254	867	953	116	714	743	707	569	1,00,1	1,285	1,328	1,521	664	623	723	683	634	:	:	minimum in	:	:	-:
	13-03	12-19	13-10	11.76	12.39	13-10	13-03	13-46	12-27	13.80	13-33	12.19	10.82	10.37	9-10	9.62	10.53	8,74	7.25	5,74	atopique su	5.3	4.96	5.99
	89,255	83,520	89,772	93,189	98,211	103,890	100,736	612,991	97,240	109,375	105,687	103,892	93,677	98,204	87,520	93,939	104,383	87,992	74,026	41,632		37,378	40,3 43	41,741
-	*	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:		:	:	:
	:	:	:	:	:	:	:	:	:	:		:	:	:	:	:	:	:	:	:		:	:	:
	1.23	.24	.18	20.	80.	.03	-03	20.	.12	0.28	0.21	0.26	-16	10.	.03	-11-	1-18	.38	80.	-03		10.	10.	.01
	8,461	1,648	1,208	594	631	247	206	529	963	2,187	1,649	2,197	1,400	345	294	1,692	11,726	3,838	874	138		334	66	110
	1.01	1.13	-92	01.	.63	69.	.24	96.	.48	69.0	1.50	0.35	.32	.02	1.33	1.58	.41	-30	0.11	10.		.27	7.	.24
	6,915	7,765	6,332	5,523	4,971	5,508	1,904	7,436	3,816	5,440	11,907	3,020	2,809	7,729	12,806	15,454	4,107	3,030	1,097	292		2,045	1,156	1,469
	31-24	32-77	31-35	28-13	30.06	31.64	30.62	30-26	30-24	31-31	29.92	28.44	28-21	26-73	21-53	19-06	16-77	92-91	18.21	15.85		17-10	15-23	14-28
,	214,057	224,594	114,835	223,000	238,319	246,118	242,756	239,898	239,704	248,224	237,180	242,428	244,154	235,081	207,073	186,164	166,275	168,632	185,961	115,007		119,252	115,320	120,591
-	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1961	1942	1943	1944	1945	1946	1947	Ston bar	1948	1949	1950
-	23	55	100	26	52	88	88	3	19	62	3	99	65	99	67	89	69	2	=	64		73	14	12

R. C. BAROOAH,
Statistician
For D. P. H., Assam,

A.—VACCINATION DEPARTMENT

VACCINATION STATEMENT No. I-Showing particulars of vaccination in the State of Assam during the year 1950

				1	,																
	-traos	rad e	tage of total live-b tage of total live-b tage of total live-b	16				=:	:	٤:	:	:	:	:	:	:	:	:	:	:	
	ge of suc-	ed ed	Re-vaccination	15	-			46.00	98-58	61-63	48-51	37-02	66-06	75-70	45-67	58-13	98.99	63.16	69-02	72.29	
	Percentage of suc-	2 4	Primary plus So-	11			No.	98-66	99-83	12-66	88-95	100-00	99-24	97-10	81.60	95.51	16-56	93-51	01-76	96-21	
			Total operations in verified operations	13			and the same	39,926	44,165	20,107	4,797	56,251	15,390	12,238	10,878	145,693	73,100	16,791	57,053	56,870	
	uo.	100	Total including Total bedinsons vaccinations	12		8		29,339	27,833	9,194	2,522	46,376	7,705	3,987	4,209	10,478	60,368	43,586	31,827	44,715	
	Re-vaccination		Unsuccessful	11				14,991	313	3,258	1,247	27,265	604	801	2,187	32,390	15,979	10,660	5,942	10,699	100.00
	B		Successful	10		1		12,774	27,020	5,234	1,175	5,695	4,132	2,496	1,839	44,973	32,215	18,283	13,242	27,919	
	y	-izavı	Total including ur snoinnibaev bed	6				10,587	16,332	16,913	2,275	9,875	7,685	8,251	699'9	42,895	12,732	33,205	25,226	12,155	
	Primary vaccination including Secondary	To H	Unsuccessful	60			No.	14	27	101	242	:	5,53	213	1,210	1,921	490	1,913	1,242	411	
	including		latoT	7				10,566	16,305	10,677	1,950	9,875	7,627	7,139	5,368	40,942	11,498	27,577	19,952	11,223	
	ccination	Successful	Five and under ten years	9				1,918	4,178	299	603	1,602	1,679	1,025	1,456	14,947	2,830	6,501	7,683	1,411	
	rimary va	Succ	One and under stroy ova	10				7,545	11,465	7,789	196	5,104	3,164	4,779	2,837	19,950	5,730	14,188	9,100	5,398	
1000	P		Under one year	4			W.	1,103	662	2,289	386	3,169	2,784	1,335	1,075	6,045	2,938	6,888	3,169	4,414	1 100
Control of the last	0:	om, 195	Estimated populati	60				497,565	353,544	184,288	37,929	234,064	85,597	199,167	190,439	742,785	315,005	946,237	508,180	482,188	
The state of		100	-					:	:	:	:	ii.	:	:	:		:				
								:	:	:	:	:	:	:		:	:		:	:	
			WITT S		1	OWNS)								-							
		1 6	Town or towns			UDING 1								:							
			Town	61	176	S (EXCL)			0:	:		200:		:		:		10:	:	:	
				13		ADISTRICTS (EXCLUDING TOWNS)			rision	vision	no	uo	TO LOS	vision	livision		noes	uo	uo	n	
						ADI		Silchar Subdivision	Karimganj Subdivision	Hailakandi Subdivision	Haffong Subdivision	Shillong Subdivision	Jowai Subdivision	Naga Hills Subdivision	Lushai Hills Subdivision	Dhubri Subdivision	Goalpara Subdivision	Gauhati Subdivision	Barpeta Subdivision	Tezpur Subdivision	
-		The Asia		ing last				Silchar	-	-	-	-		-	-	-		-		-	BER BORN
1			Number	-				m1	64	00	4	10	9	-	00	0	30	=	12	13	

90.16	10.29	28-87	53.27	68-82	61-21		05.29	58.56	:		No. of Section 1	66.44
98-53 94	95-67 63	97-04 28	80-36 53	68-86	84.64 61	95-14 81	90-96	83-17 58	:.		200	92.28 66
6 669,96	6 168,16	21,485 9	15,775 80	52,336 94	30,953 84	17,291 93	10,417 94	8,671 8:	:		3000	985,573 93
75,904 9	57,740 9	12,152 2	5,236 1	35,854 5	21,784 3	7,565 1	6,407 1	6,407	:		The state of	662,038 98
4,145	16,957	2,892	6,487	1,806	5,321	4,981	1,089	1,814			nead	171,633 (
65,717	25,896	15,425	2,633	2,241	11,745	7,872	4,677	3,762		B		339,865
20,195	34,154	11,127	9,333	10,539	16,483	9,169	9,726	4,010	:		100	323,535
292	1,266	511	263	1,891	175	451	424	238	:	4		3,390
19,610	28,005	9,456	8,641	7,741	15,682	7,972	8,309	3,772	:	-1	12/20	289,887
3,244	8,176	2,188	121	1,838	2,954	1,664	108	625	:		119.1	67,350
10,603	14,319	5,631	8,426	4,345	9,151	4,534	1,622	8883	:		O'E	157,530
5,763	5,510	1,637	56	1,558	3,572	1,773	6,570	2,264	:			65,007
-			Ř.					_	-	-	-	1 -
389,968	902,402	411,272 1,	423,704	355,655 1,	767,732	240,098	238,942	65,147	9,468		rie	8,581,376
389,968			Ř.		167,732	240,098		:	:		-	8,581,376
_	902,402	411,272	423,704	355,655	167,732	240,098	238,942	: :	:			
: :	902,402	411,272	423,704	355,655	167,732	240,098	238,942	: : :	: : :		100	
: : :	902,402	411,272	423,704	355,655	167,732	240,098	238,942	: : : :	: : :			
: :	902,402	411,272	423,704	355,655	167,732	240,098	238,942	: : : : :	: : : : :	The state of the s		Total of Districts excluding Towns 8,581,376
: : : : : : : : : : : : : : : : : : : :	902,402	411,272	423,704	355,655	167,132	240,098	238,942	: : : : : :	: : : : :	The state of the s		
: :	902,402	411,272	423,704	355,655	167,732	240,098	238,942	: : : : :	: : : : :	The state of the s		

VACCINATION STATEMENT No. I -Showing particulars of Vaccination in the State of Assam during the year 1950 A.—VACCINATION DEPARTMENT

			05	Ь	Primary vaccination including secondary	ccination	including	secondar	, A	Re-	Re-vaccination			Percentage of suc-	e of suc-	oBuju:	
			961 •ac		Successful	led						iveri-	inclu sm		verified	a perce	
	Districts and excluding Towns		opulation),csr.	ova tob	der ten		Įr	n gaibe		1	au gaibt neiteaice	erations oberatio	+0S 5N	noit	year as a	
Serial Nun	most software manual to heat		Estimated p	Under one	One and un years	Five and un years	InfoT	Unsuccessf	Total inoT bed	Successful	Unsuccessfu	Total Inch sev-or boil	qo fatoT bədinəvnu	Primary pl	Re-vaccina	Successfuly great one of total liv	
-	2		60	*	10	9	7	00	6	10	=	12	13	14	15	16	1
	B. TOWNS																1
-	Silchar	:	32,314	302	401	1115	818	¢ŧ	952	5,727	4,358	16,114	17,066	99-75	26-78	:	
04	Karimganj	:	17,970	24.8	1,450	1,725	3,423	147	3,570	25,680	5,207	30,887	34,457	95-88	83-14	:	
00	Hailakandi	:	7,706	118	945	98	611,1	10	1,135	3,898	807	4,765	5,900	99-55	82.84	:	
	Haflong	:	2,099	9	12	:	99	-	19	191	227	384	403	94.13	42.38		
10	Shillong	:	56,480	1,608	1,569	:	3,177	:	3,187		:	14,263	17,450	100-00	:	:	
	Jowai	:	3,308	00	10	64	40	:	40	13	16	*2	15	100-00	44-82	. :	
-	Kohima	:	4,064	19	51	00	73	*	81	3	:	87	168	90-12	100-00	:	
00	Dhubri	:	21,779	298	466	300	1,064	64	1,068	1,467	564	2,366	3,434	99-81	72-53	:	
6	Goalpara	:	9,953	51	112	69	232	:	232	:	:	762	994	100-00	:	:	
0	Gauripur	:	7,464	11	4	21	142	13	173	1,591	1,496	3,331	3,504	19-16	51.53	:	
-	Gauhati	:	42,214	203	348	188	139	64	903	3,562	2,461	7,903	8,806	91-12	57-13	:	
		7	-	-		-	-	-	-		_						

						-4		_	_		_	-	-		-	-			-	-		
12	Barpeta	:				:	20,870		220	344	30	265	15	614	124	16	273	616	97.53	20.00		
2	Palasbari	:	:	:		. :	. 4,0	4,605	58	112	:	170	-	171	628	386	1,714	1,885	99-41	60-38	:	
14	Nalbari	:	:	:	:	:	. 4,5	4,338	43	522	33 1	128	64	130	16	110	289	299	98-41	45-27		- 2
15	Tezpur	:	:	:	:		. 18,180		140	134	:	274	:	274	252	1,307	3,801	4,075	100-00	91.91		
16	Mangaldai	:		:	:		3,424	2.4	6	26	:	65	-	99	*	64	1	73	98-48	99.99	:	
17	Nowgong	:	:	:	:		26,729		555 2,3	2,348	75 2,9	2,978	:	2,978	2,415	3,292	7,432	10,410	100-00	42-31		
18	Jorhat	:	:	:	:		. 15,714		273	246	ro.	524	62	290	727	200	2,288	2,878	89-41	17-98	:	
19	Sibsagar	:	:	:	:		10,316	91	9	16		103	-	105	89	9	91	196	99-03	68-16	:	
2	Nazira	:	:	:	:	:	. 4,1	4,169	10	9	:	91	12	24	65	9	81	105	2-69	91-54	:	
2	Golagha:	:	:	:	:		8,002	02	28	35	10	73	64	83	4.7	=	10	153	97-33	10-18	:	
21	Dibrugarh	:	:	:	:		. 36,511		267	296	:	563	:	576	447	:	1,199	1,775	100-00	100.001	:	
22	Tinsukia	:	:	:	:		. 11,855	55	74	248	9	328		328	66	29	350	678	100-00	77-34	:	
24	Dooma Dooma	:	:	:	:	:	3,007	100	4	9		10		19	32	:	55	104	:	:	:	
25	North Lakhimpur	:	:	:	:		3,0	3,064	:						:		:	:	:	:		
26	Tura	:	:	:	:		3,403		89	53	:	121	:	121	09	45	195	316	100-00	57-14	:	1
	Total of Towns	:	:	:	:	:	379,538		4,713 9,	9,438 2,6	2,641 16,792		341	17,419	47,227 2	21,212	98,754	116,223	00-86	00.69		-
							-	-	-	-	1	-	+	1	1	1	T	1	1	1		1
			Total o	Total of Vaccination Department	ion Depart	tment		69,7	69,720 1,66,968	-	69,991 306,679	679 13,731		341,004 3	387,092 1	192,845	760,792 1,101,796	961,101,	95-71	66.75		
			To	Total of Dispensary Staff	ensary Sta			1,641	1	1,481	886 4,	4,008	99	4,078	2,108	1,897	7,877	11,955	98-38	52-63		
				Total of 7	Total of Tea Gardens	sa	1	. 18,730	-	10,893 3,8	3,823 33,	33,446 1,	1,563 3	35,270 3	36,211	19,794	57,033	92,333	95.53	94.65		1
	Total of Jails, Mental Hospital, Police Hospitals, etc.	Mental F	Hospital, F	olice Hosp	itals, etc				266	114	141 5	521	10	535	3,461	5,675	11,296	11,831	18-66	37.88	100	
			Total of	Total of Railway Dispensaries	Dispensari	:			583	696	475 2,	2,027 1,7	1,703	4,039	000049	9,930	22,107	26,166	54:34	46.40		
		Total of	Private 1	Total of Private Medical Practioners	actioners	:			:			:	:	:		:	:	:	:	:		
					Grand Total	R	8,960,914	914 90,940	180,425	425 75,316	346,681	810,71 189,	100	384,946 4	434,872 2	230,141 8	821,866	43,942	95-30	65-38		
-	-				-		-	-	-	-		-	-			-	-	-	-			1

B.—DISPENSARY VACCINATION

STATEMENT No. II.-Showing Dispensary Vaccinations in the State of Assam during the year 1950

										0		Secondary Commission Commission Commission		Ke-	Ke-vaccination	1	5	Success among		known cases to the	of un-
Cachar C									Successfi	7		-izave	-0000				suo	the verified operations	pod ns	total cases.	
Cachar .			Dist	tricts								zn 20	noit	14		SU	erati		u		to
Cachar United Khasi and Jaintia Hills United Khasi and Jaint	ó							4	-),crts	100		rimary	Int		peratio	do pour	Arep	cination	dany.	cinatio
Cachar								- 20				1 2	A Arep	Success	Unsucc		Total o unven	nuoses		Primar	Ве-узс
Cachar 1,460 1,152 868 3,480 United Khasi and Jaintia Hills 200 200 200 Lushai Hills 70 Coalpara Kamrup Darrang Nowgong <t< td=""><td>-</td><td>polyto prod</td><td>61</td><td></td><td></td><td></td><td></td><td>60</td><td>7</td><td>NO.</td><td>9</td><td>-</td><td>60</td><td>6</td><td>10</td><td>n</td><td>12</td><td>13</td><td>14</td><td>. 51</td><td>16</td></t<>	-	polyto prod	61					60	7	NO.	9	-	60	6	10	n	12	13	14	. 51	16
United Khasi and Jaintia Hills 1,152 868 3,480 Naga Hills 200 200 Lushai Hills 70 Goalpara Kamrup Darrang	-	:			:	:	:	:	:	:	: :		:	:	:	:	:	:	:	:	:
Naga Hills 200 200 Lushai Hills <	64	United Khasi and Jaintia Hills			:	:		1,460	1,152	60	3,480	:	3,480	1,036	:	5,161	8,641 10	100-00	:	:	79-92
Lushai Hills	60		:	: ::	:	:	:	:	200	:	200	47	247	320	620	940	1,187 8	80-97 3	38-09	:	10 63
Goalpara	*	:	:		:	:	:	1.4	23	:	10	:	360	360	1,113	1,189	1,259 10	100-00 2	24-44	:	23.88
Kamrup <t< td=""><td>10</td><td>Goalpara</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td>:</td><td></td><td>:</td><td>:</td></t<>	10	Goalpara	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:		:	:
Darrang <	9	Kamrup	:	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Nowgong <	-	Darrang			:	:	;	:		:		:	:	:	:	:	:	:	:	:	:
Sibbagar	89	Nowgong	:	:	:	:	:	:	:			:	:	:	:	:	:	:	:	:	:
Lakhimpur	6	Sibsagar		-	:	:	:	*	10	1:	14	:	14	155	43	198	212 10	100-001	18-28	:	:
Garo Hills	10	Lakhimpur	:	:	:				:	:	:	:	:	:	:	:	:		:	:	:
Sadiya Fron _t ier Tract	11	Garo Hills			:	:	:	89	1.9	60	138	19	161	190	72	293	254	87.89	12-51	2-48	10-58
	22	Sadiya Fronțier Tract .			:	:	:	62	62	15	106	:	106	47	46	96	202 10	100-001	96-89	:	:
	13	Balipara Frontier Tract			:	:	:	:	:0	:	:		:	:	:	:	:	:	:	:	:
Total for the Descripts 1,641 1,481 886 4,008 66	-	- Imminded	Total for	the December			_	1 641	1.481	886	4.068	99	4.078	2,108	1.897	7.817	11.955	98-38	52-63	60.	49-15

Summary

Number of all	successfull vaccinations performed	6	Salvan Salvan	629,752	64,019	693,771	100	8,027	:	6,116	73,639	87,782	781,490
vaccinated	Five to ten years	8	ALIEN HOLEN	67,350	2,641	166'69		475		386	3,964	5,325	75,316
Number of children successfully vaccinated	One to 5 years	7		157,530	9,438	166,968	160	696	:	1,481	11,007	13,457	180,425
Number of c	Under 1	9		200'59	4,713	69,720	Tou	583	:	1,641	18,996	21,210	90,940
Percentages of successful cases in which results were known	Re-Vaccinations	1/2		11.99	00-69	\$1.99		01-91	:	52.63	06-09	47-90	65.38
Percentages of successful case which results were known	Primary plus Secondary	*		95-58	00.86	12-56	1000	54.34	: ,	98-38	895-56	92-30	95-30
Total number of operations performed	Re-Vaccinations	8		662,038	98,754	760,792		22,107	:	7,817	68,329	98,313	821,866
Total number	Primary plus Secondary	01		323,535	17,469	431,004	1000	4,059	:	4,078	35,805	43,942	384,946
100	THE SERVICE		and the same		:	:	275	:	: :		ntal hospitals, etc.	:	:
ah geleoma	Charles I have the con-	1 I	By Special Staff—	ng Towns	Towns	Total		By Railway Dispensaries	By Private Medical Practitioners	By Dispensary Staff	By other agencies, Tea Gardens, Jails, Mental hospitals, etc.	Total	Grand Total

IMPERIAL STATEMENT No. III

Statement showing number of persons primarily vaccinated with number of those who were successfully vaccinated in each of the under-mentioned official years

					7				N. Co.				100					Total State of		
Vaccinatin Agents	Tetal number	Number successfully vaccinated	Total number	Number successfully vaccinated	Total number	Anterior ancoestully	Total number	Number successfully	Total number	Number successfully vaccinated	Total number	Number successfully vaccinated	Total number	Number successfully vaccinated						
		1941	19	1942	1943	2	1961	7	1945	5	1946	9	1947	-	1948	88	1949	61	1950	0,
1	64	60	,	15	9	7	60	6	10	11	12	13	14	15	16	17	188	19	20	12
Government	50,291	44,388	58,903	45,467	55,015	50,774	81,832	73,067	57,323	45,998	24,720	37,169	56,170	46,942	79,182	63,272	88,353	72,676	53,407	50,139
Dispensaries	807	121	2,437	5525	1,328	1,158	1,675	1,741	2,003	1,648	1,394	1,213	474	467	7,612	7,238	1,343	1,246	4,678	4,908
Municipal	6,873	8 6,505	5,856	5,255	162,9	6,461	5,491	5,298	5,405	5,098	7,122	6,599	1,691	6,334	30,055	28,951	6,243	6,036	17,144	16,526
Local Funds	338,159	9 313,446	333,769	292,981	286,808	260,916	387,643	348,830	30,828	278,423	339,397	301,822 2	224,076	195,196	224,688	156,855	228,094	201,144	270,403	240,014
Licensed Vaccinators	:	:	:	:	:	:		:	:	:	:	:	25,026	19,375	:	:	:	:	:	:
Apprentices	:	:	1,900	1,800	:	:	:	:	:	:	:	:	:	:	68	04 00	:	:	:	:
Native States	20,240	16,311	17,468	13,732	16,400	14,362	18,016	13,130	30,055	28,899	22,867	18,231	:	:	26,311	7,900	28,241	23,448	:	:
Tea Gardens	38,111	36,145	35,322	32,686	58,162	54,919	22,058	20,198	28,644	26,606	29,230	27,211	19,038	17,750	32,728	30,965	30,050	28,376	35,270	33,446
Jails, Mental Hospital, Police Hospi- tals and Infectious Diseases Hospitals	234	197	108	67	289	242	2,726	2,363	100	256	909	341	347	328	62	20	360	324	535	523
Railway Dispensaries	459	398	353	287	1,240	1,055	12,463	2,908	122	40	10,960	2,729	96	45	201	190	2,092	1,406	4,039	2,027
Total	-	455,174 418,131	456,126	393,093	426,033	289,887	532,098	467,525	430,734	386,968	454,076	345,385 3	337.018	286 467 400.948		154.333	354 776	224 456	284 046	346 681

IMPERIAL STATEMENT No. IV.—Showing the number of Vaccinations performed in Municipal towns on children under one year of age during the year 1948

Districts	Towns	Number of births during the year	Number of deaths among children under one year during the year	Number of successful vaccina- tions on children under one year during the year ending 31st December 1948	Date of extension of Vaccina- tion Act to town
1 = =	2	3	4	5	6
Cachar	Silchar Karimganj Hailakandi	857 276 90	5 7 8	302 248 118	21st January 1892. 27th July 1915. 10th November 1922.
United Khasi and Jaintia Hills.	Shillong			1,608	31st June 1895.
Goalpara	Dhubri Goalpara Gauripur	341 167 117	27 6 10	298 51 77	13th February 1891. 12th November 1890. 15th September 1922.
Kamrup	Gauhati Barpeta Palahbari Nalbari	606 707 107 23	68 42 5 1	203 220 58 43	August 1882. 29th October 1915. 16th November 1927. 9th August 1940.
Darrang	Tezpur	324 27	13 2	140 9	22nd May 1907. 12th October 1916.
Nowgong	Nowgong	668	45	555	7th April 1897.
Sibsagar	Jorhat Sibsagar Golaghat Nazira	217 70 88 89	14 4 4 4	273 6 28 10	12th April 1892. 21st January 1892. 24th March 1892. 1st December 1916.
Lakhimpur	Dibrugarh Doom Dooma Tinsukia North Lakhimpur	381 19 88 	21 	267 4 74 	September 1883. 21st October 1918. 31st August 1932. 22nd June 1932.
	Total for the Pro-	72			2000-0-0

Assam 792,919 34,256 5,645 10,291 86,617 13,167 Number of successful vaccinations 51 50 20 xod-llams State 20 Ratio of deaths from the 13,171 9,327 vaccinations 19 Number of successful .5 successful vaccinations .15 90. xod-quus 18 Ratio of deaths from 69,295 82,239 11,006 87,651 766,16 12,888 vaccinations 17 Number of successful 10. xod-flems 16 Ratio of deaths from fo 56,181 Vaccinations 12 number Number of successful 12 67 903 xod-llams the Ratio of deaths from 14 and 760 48,037 vaccinations : population) of deaths from Small-pox during the ten years ending 1950 Number of successful 13 Ratio of deaths from small-pox : 52 65,463 VACCITATIONS : = Number of successful 223 54 0.0 10 Ratio of deaths from small-pox 10 11,951 Number of successful vaccinations : Ratio of deaths from small-pox (per 1,000 of 60 124,915 ASCCIUSTIOUS Number of successful 1943 ratio 90 500 00 22 3 17 90 0 xod-lieus : 9 Ratio of deaths from the 11,097 196,98 45,702 Vaccinations : Number of successful side 1942 02 0 xod-llems Ratio of deaths from side 40,687 12,771 49,993 59,826 IMPERIAL STATEMENT No. V .- Shoreing : Number of successful 00 1961 01. xod-flams 900 .03 001 : Ratio of deaths from 64 Ē for the Province Sadiya Frontier Tract United Khasi Naga Hifls ushai Hills Garo Hills Total Goalpara Nowgong Kamrup Sibsagar Darrang

STATEMENT No. VI.—Showing the Vaccinal Conditions of Smallpox patients admitted to Hospitals during the year 1950

GOVERNMENT OF ASSAM

ORDERS BY THE GOVERNOR OF ASSAM

Resolution on the Public Health Report for 1950

Extract from the proceedings of the Government of Assam in the Medical Department, Public Health Branch, No.M.P.H .-294/51, dated the 8th October 1952.

RESOLUTION

1. The total rainfall during the year under report was 92.21 inches as compared to 107.90 inches in 1949—the quinquennial average being 105.83 inches. Rainfall was in slight excess in January but was moderate in February. Thunderstorm caused fairly wide spread rain during the greater part of May. The monsoon remained generally active till the end of June. The weather was practically dry over the State during December except scattered rain. The economic condition of the people was worse than in the previous year due to the fact that prices of foodstuffs increased further.

2. The population of the State according to the Census of 1951 was 91,29,442 giving a density of 145-52 per square mile. The total number of births including still-births registered during the year under report was 1,22,731 yielding a birth-rate of 14:28 per mille. The total number of deaths registered was 67,178

yielding a death-rate of 7.96 per mille.

The most prevalent diseases during the year under report were :-

Kala-azar.—Kala-azar appeared to be on the decline during the year under review. The number of patients treated was 8,677 as compared to 11,957 during 1949. The Public Health Department of the State was responsible for the decrease in the incidence of this disease. The disease was however, wide spread in Garo Hills where every effort was made to combat the same.

Smallpox.—A total of 110 cases of deaths from smallpox was registered as compared to 117 cases of deaths in 1949. Preventive measures were, however, taken by the Public Health Staff and the Local

Cholera.—During the year under review, comparatively mild outbreaks of Cholera occurred in Kamrup, Goalpara, Nowgong, Sibsagar, Cachar and Garo Hills Districts. A total number of 1,869 deaths was recorded. Garo Hills and Kamrup Districts suffered most from this disease during the year under report. Through extensive propaganda, inoculation against cholera became more popular among the rural masses. A total number of 1,138,384 inoculations was performed during the year under report.

Hook Worm.—Hook-worm disease was very common in the rural areas of the State. All possible steps were taken for detection and treatment of the cases and also for prevention of the carrier hazard. Regular survey and health propaganda were also undertaken. With a view to eradicate the disease, two mobile units

started work in the Sibsagar and Kamrup districts.

Dysentery and Diarrhoea .- A total number of 5056 deaths was registered due to dysentery and diarrhoea. The death-rate was '58 per mille as compared to '82 per mille during 1949. Necessary and prompt medical aid was rendered to the sufferers with medicines, e.g., Sulphaquanidine, Thalazol, B'phage and other drugs as and when necessary.

Eye Complaints .- During the year under review, a total of 9,426 minor eye complaints were treated in all the dispensaries of the Public Health Department as compared to 9,587 cases treated in 1949. A senior District Medical Officer of Health was deputed to the United Kingdom for higher training in Opthalmology

during the year under review.

Respiratory Diseases.—There were 3,941 deaths due to this group of diseases during 1950 as compared to 3,919 deaths in 1949. The mortality rate was 45 in 1950 and 0.51 in 1949. Tuberculin tests and B.C.G. Vaccinations continued during the year.

Injuries and other causes .- A total of 13,134 deaths was reported from injuries and other causes. This

included 752 deaths due to injuries including suicide.

Leprosy .- A total number of 2,539 leprosy cases were treated in the dispensaries of the Public Health Department, Leprosy Clinics and Medical Institutions under the Medical Department, Local Bodies and Missionary Societies. The special Leprosy Officer carried out survey in 7 villages. Propaganda work on leprosy was carried out as usual. Leprosy pamphlets in Assamese and English were freely distributed. Sulphone drugs were introduced towards the end of the year under report in selected Public Health Department Dispensaries where microscopes and compounders were available. The results achieved were encourag-

4. Fairs and Festival .- Seventeen major fairs were held in the State during the year under review. Of these, the most important were the Brahmaputra Snan at Dhubri, the Mahamya Mela at Bogribari, the Durranga Mela, the Ambubachi Mela, the Ghandi Mela, the Siddheswar Mela and the Sibaratri Mela. Sanitary arrangements at the Melas were made as usual. Vaccinations and inoculations were given to the congregating mass. No epidemic broke out in any of these melas. The Railway authorities, the Police, Medical and other Departments fully co-operated in the arrangements made at all the festival centres.

 Sale of quinine and quinine substitutes.—The Provincial Public Health Laboratory continued to work as the Provincial Quinine Depot for the sale and distribution of anti-malarial drugs under controlled scheme. The laboratory continued to prepare Mepacrine treatment packets and supplied the same to all the Posts Offices in the State for sale to the Public. 12,700 treatment packets were sold during the year under report

as compared to 12,661 packets in 1949.

6. Public Health propaganda and Publicity.—To arouse health conciousness among the masses, pamphlets, leaflets and other health literature published by the Public Health Department were distributed free. Besides the Magic Lantern Operators visited the villlages at intervals and demonstrated Slides on different infectious diseases. Health Exhibitions were also made during the World Health Day which was held in Shillong. Talkie films on health matters were occaseionally shown to the public free in different cinema halls.

7. Food Adulteration.—Five hundred and forty-eight samples of foodstuffs were received at the Provincial Public Health Laboratory, Shillong for analysis by the Public Analyst from different places in the State in 1950 as compared to 546 samples received during 1949. The average adulteration during year under report was 59.4 per cent. as compared to 72.3 per cent. during 1949. The highest percentage of adulteration was found in the case of "ATTA" and "MAIDA".

8. The Provincial Public Health Laboratory, Shillong.—One thousand and eleven Laboratory examinations were done during the year. Of these, foodstuffs numbered 548. The number of samples of water examined bacteriologically was 346. Several samples of water from the Brahmaputra river and its tributaries were examined after the earthquake of 1950. All the samples showed high bacterial contamination high turbidity and untsaisfactory chemical nature. A piece of work on behalf of the Forest Department, Assam on the preparation of Turpentine and Rosin from the resin tapped from the indigenous pine trees (Pinus Khasia) was undertaken. Oleoresin tapped by cup and lip method yielded 25 to 30 c. c. turpentine oil on distillation and about 60 to 70 grms. of rosin was recovered. The total quantity of Urea Stibamine distributed in different places in the State was 193 81 grms. (715 ampls) and Neo-stibamine ampoules—6.95 Grms. (98 amps.) The supply of Collin's Syringe and Syringe parts continued as usual.

9. Maternity and Child Welfare.—The existing four maternity and child welfare centres continued to function during the year. The health visitors carried out home visits and gave proper instructions to

expectant and nursing mothers.

10. The Vaccine Depot, Shillong. - During the year under report, the outturn of Vaccine Lymph was 25,94,125 doses as against 16,32,130 doses in 1949. Doses of Vaccine Lymph amounting to more than a half

lakh were supplied to the East Punjab and a similar quantity was also supplied to the Tripura State.

11. Public Health Administration.—The drafting of the Public Health Act was completed during the year The special officer appointed for the purpose of drafting this Act was transferred to his substantive post of Assistant Director of Public Health. One senior District Medical Officer of Health was deputed to United Kingdom for higher training in Opthalmology. An Assistant Surgeon II was deputed for training in Director of Public Health and Hygiene Courses at the All-India Institute of Hygiene and Public Health, Calcutta and another Assistant Surgeon II was also deputed for training in up-to date methods of manufacture of Vaccine Lymph in Madras. Dr. S. C. Dutt, B. S.C., M. B. Director, Public Health was incharge of the Department throughout the year. Government take the opportunity of thanking him for his efficient administration of the Department.

ORDER .- Ordered that the resolution be published in the Assam Gazette for general information.

By order of the Governor of Assam,

A. N. KIDWAI,

Secretary to the Government of Assam in the Medical Department.

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