

Quarterly report of the Mysore Department of Health.

Contributors

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Public Health is Purchasable. Within Natural Limitations any Community
can Determine Its own Death-rate.

Vol. XI]

[No. 1

QUARTERLY REPORT

OF THE MYSORE STATE

DEPARTMENT OF PUBLIC HEALTH

JANUARY—MARCH, 1939

P. PARTHASARATHY, L.M.S., B.S.Sc., L.R.C.P.,

L.R.C.S., D.T.M., D.P.H.,

Director of Public Health

and

Registrar-General of Births, Deaths and Marriages.



BANGALORE :

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1939

**"Search for the Truth is the noblest occupation
of Mankind, its publication a Duty."**

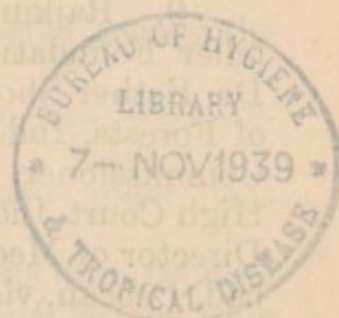


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QUARTERLY REPORT
OF THE MYSORE STATE
DEPARTMENT OF PUBLIC HEALTH.

PART I.

GENERAL.



1. Prince Jaya Chamaraja Wodeyar, accompanied by Mr. D. H. Elwin visited the department on Wednesday the 15th and Thursday the 16th March 1939.

2. The Dewan paid a visit to Sakrepatna and made enquiries about the arrangements made for the control of malaria in that place. The Second Member of Council inspected the Office, Malaria Station, Mudigere, and the anti-malaria work at Sakrepatna.

3. The department co-operated with the Rural Welfare Centre in Closepet in putting up an exhibition in connection with the visit of His Excellency the Viceroy on January 13.

4. The state of public health in Mysore State in the quarter under report was satisfactory. The State was entirely free from cholera and only 34 deaths from small-pox and 121 deaths from plague were reported.

5. Government have sanctioned the continuance of the plague vaccine work in the Public Health Institute for a further period of two years.

6. The following four candidates were appointed as Probationers.

1. Mr. H. Shama Sastry, M.B.B.S.
2. „ S. Ananthaswami, B.Sc., M.B.B.S.
3. „ S. D. Narayana Gowda, M.B.B.S.
4. „ V. Ramakrishna, M.B.B.S.

7. Dr. C. V. Natarajan was, on relief from the Medical College, Mysore, posted as District Health Officer, Mysore district.

8. During the quarter the Director of Public Health was out of headquarters for 25 days touring in the districts and visited 10 moffussil towns and 11 villages. He visited Karapur in connection with the sanitary arrangements made for the Viceregal visit. He attended the Second Meeting of the Central Advisory Board of Health held at Madras on January 9th and 10th.

9. Rajkumar of Keonjhar, Dr. Florence Blake, Rockefeller Foundation, with Mrs. Weston, Miss Masters and Dr. Esther Shoemaker of Kolar, Mr. Advani, Conservator of Forests, Indore, Mr. K. N. Bapna, Excise and Opium Commissioner, Indore, Mr. Parmeswaran Pillay, Retired High Court Judge, Travancore, and Dr. Hyder Ali Khan, Director of Medical and Public Health Services, Hyderabad, Deccan, visited the Health Training Centre, Closepet. In connection with the study tour under the auspices of the Rockefeller Foundation, Dr. Rajendram, Ceylon Public Health Service and Dr. Nayar of the Travancore Public Health Service visited the department for special study of malaria control work. They also visited the offices in Mandya, Nagenhalli and Hiriur.

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BUREAU OF ADMINISTRATION.

(a) CITY HEALTH ORGANISATIONS.

(1) Bangalore City.

M. G. SRINIVASA PEIDPET, L.M.S., B.S.Sc.,

Health Officer.

Vital Statistics.—In the quarter under report 1,780 live-births, 93 still-births, 335 infant deaths and 1,337 deaths from all causes were registered. The birth-rate was 32·7; the death rate 24·6 and the infant mortality 188·2 as compared with 37·1, 27·8 and 231·1 respectively in the previous quarter.

Plague.—During the quarter five attacks with five deaths from plague were reported. Thirteen rodents were examined and all of them were negative. A total

of 694 anti-plague inoculations were done and 41 houses were disinfected. Fumigation by cyanogas was done in 2,134 houses.

Smallpox.—The city was free from smallpox in the quarter under report. As a preventive measure 4,020 vaccinations were done, of which 2,292 were primary and 1,728 were re-vaccinations. Ten houses were disinfected.

One fatal case of chickenpox was reported during the quarter.

Cholera.—There was no cholera reported during the quarter.

Influenza.—Three fatal cases of influenza were registered.

Diphtheria.—One attack and one death under this cause were reported.

Typhoid.—During the quarter 12 deaths from typhoid were reported. Forty-one anti-typhoid inoculations were done and four houses were disinfected.

Stray Dogs.—During the quarter 503 stray dogs were destroyed.

Maternity and Childwelfare.—Maternity and childwelfare clinics were held in different parts of the city by the two Lady Health Visitors as detailed below :—

Place	Pregnant Women examined		Non- Pregnant Women examined	Children examined
	I Visits	II Visits		
I LADY HEALTH VISITOR.				
1. Maternity Home ...	134	198	63	111
2. Basvangudi Dispen- sary.	33	50	14	23
3. Binny Mills ...	24	34	...	..
4. Kilary Road Girls' School.	8	...	2	...
5. London Mission Girls' School, Cottonpet.	1	...	1	...
6. Goripalya ...	6	...	...	...
Total ..	206	282	80	134

Place	Week days	Pregnant Women examined	Non-pregnant women examined	Children examined
II LADY HEALTH VISITOR				
1. Chamrajpet ...	Monday.	110	108	68
2. Malleswaram ...	Tuesday.	61	68	72
3. Mavalli ...	Thursday.	235	178	246
4. Ganigarpet ...	Friday.	210	286	136
Total ..		616	640	522

Food Inspection.—Under the food adulteration Act the following samples were examined :—

Name of sample	Found to be genuine	Found to be adulterated	Total
1. Ghee ...	16	24	40
2. Butter ...	10	1	11
3. Cow's milk ...	...	3	3
4. Buffalo's milk ...	15	13	28
5. Cow's and Buffalo's (Mixed).	8	5	13
6. Unspecified milk ...	...	2	2
7. Coffee powder ...	4	3	7
8. Kova ...	1	...	1
Total ...	54	51	105

The number of hotels, coffee clubs, eating houses, etc inspected were :—

1. Eating houses ...	130
2. Aerated water factories ...	20
3. Hotels and coffee clubs ...	410
4. Bakeries and sweetmeat shops ...	124
Total ...	684

Some of the improvements suggested were sterilization, white-washing, keeping of almirahs, dust and fly-proof cases, washing the flour at least twice each day, cement plastering, stopping the use of well water, using only genuine stuff in all preparations.

Sanitary Improvements.—

- (1) New drains were constructed in I Main Road, Seshadripuram, Anjeneya Block, Mohamedan Block and Muni-reddipalyam, I Division.
- (2) Drains were repaired in the various localities.
- (3) The platforms of the public fountains in the II and the III Divisions were repaired and improved.
- (4) An open box drain to the east of Seshadri road in Lakshmiiah's Garden, II Division, was recently built for the storm water.
- (5) The old sut-line in Tankisile Narayana Setty lane in the II Division was replaced by a new one.
- (6) The underground pipe line in Dewankhana lane and Hospital lane in the II Division was laid.
- (7) Two public urinals, one opposite to the Majestic Theatre and the other in the Srinivasa Mandiram road, II Division, are being built.
- (8) Rank vegetation and prickly plants were removed from the various localities.
- (9) Pits and Ditches in the several localities were filled up and the ditch beside the Electric Laundry is also being filled up.

Baby Show and Health Week.—The city was divided into six wards and as many as 31 centres were arranged for the judging of babies. The following statement shows the number of centres in each ward.

				No. of Centres.
1.	Ward	I Basavangudi area	...	5
2.	"	II Chamrajpet area	...	5
3.	"	III Mavalli, Kalasipalya and V Divisions	...	5
4.	"	VI Municipal area, IV Division	...	3
5.	"	V, II and III Divisions	...	6
6.	"	VI, I and IX Divisions	...	7
Total				31

As per programme the preliminary shows in the centres began from February 25 with two shows each day between 2-30 P.M. and 6 P.M. The preliminary judgments closed on

March 11. At each centre a health poster exhibition was arranged. Posters on Child Welfare and Maternity, Tuberculosis, Epidemic Diseases, etc., were exhibited. Arrangements were made for the distribution of milk to children, fruits and drinks to the mothers in all the centres. The three best children under each age group namely under 6 months, 6—12 months, 12--18 months, were picked out and they were instructed to come again for a final judging in each ward according to the programme. Every child that competed in the shows in all the centres was given either a cloth or a toy. Arrangements were made for vaccinating the unprotected children. A total of 631 primary and three re-vaccinations were done in all the centres. Two health cinema demonstrations were held, one at *Dharmaprakasa* S. Sajjan Rao's Choultry on February 27, and the second at Gavipur village on February 28 at the end of the baby shows. Films on tuberculosis, typhoid and milk were exhibited. A statement showing the total number of children examined under each age group in all the centres is given below :—

<i>Age-Group.</i>		<i>Total No. attended.</i>	
Under 6 months	441
6—12 months	953
12—18 ,,	534
		<hr/>	
Total		...	1,928
		<hr/>	

This excludes children that were in some cases declared over-aged by the judges in each centre.

Final judging, according to the programme, in each ward was taken up on March 12 and was completed on March 17.

Final judging of babies were done on March 25 at Seth Challaram Kishendas Maternity Home and three babies in each age group were selected for prizes and one was selected by the judges present as the best baby. The prizes were given away by the Second Member of Council on March 28 on the occasion of the opening ceremony of the Seth Challaram Kishendas Maternity Home and the Tuberculosis Dispensary.

Malaria Control.—During the quarter 1,439 wells were examined and 1,785 wells were restocked with larvicidal fish.

In addition to the routine oiling operations the following special works were also done in various places of the city.

- I.
 - (a) The sewage drain behind Malleswaram Cattle Pound.
 - (b) The drains in Sampegay Garden area.
 - (c) The sewage drains in Upparahalli and Dobspet area.
 - (d) The sewage drain in Lalbagh road.
 - (e) The sewage drains in Sunkal gardens.
 - (f) The channels in Kalasipalyam gardens.
 - (g) The drain behind Reserve Police Lines, Mysore road.
 - (h) The sewage drains in Hanumanthapur Burial Ground, Srirampur.
 - (i) The sewage drains in Chamrajpet Guttahally.
 - (j) Ten garden wells were cleaned up in Malleswaram garden area.
 - (k) Sewage drains in Sampegay garden area were cleaned and margins nicely cut to a distance of 500 feet.
 - (l) Main drain in Sunkal Farm was cleaned up by the malaria gang to a distance of 300 feet.
 - (m) The sewage drain leading to Channammanakere was cleaned up and margins were nicely cut to a distance of 300 feet.
 - (n) A new earthen drain was dug to lead on the sewage to Lalbagh tank.
 - (o) Sewage drains in Agrahar garden area were cleaned and margins nicely cut to a distance of 600 feet.
 - (p) A drain behind Railway Quarters was cleaned up.
 - (q) Vegetations in the margins of the Kempambudi Tank area were removed.
- II.
 - (a) Seventeen pits were got closed up in Sankey's Seepage area.
 - (b) Removal of water hyacinth in Koramangala tank was completed and the special gang was engaged in filling up pits on either sides of the main drains beyond Sunkal Farm.
- III. The box drains were got cleaned up in Kumbarpet, Thigalarpet and Ganigarpet by special and Kalighat gangs.
- IV. Rank vegetation in swimming pond, Malleswaram, was got removed.
- V. Water hyacinth in the Koramangala tank was got removed by the special gang during the quarter.
- VI. In connection with the City Market Show on 28th and 29th January a health exhibition was arranged showing the anti-malarial and general mosquito control operations with a section on general health including nutrition and milk.

(2) **Mysore City.**

S. SESHAGIRI RAO, B.Sc., M.B.B.S., D.P.H.,

Health Officer.

Vital Statistics.—During the quarter 1,331 live-births were reported giving a birth-rate of 42.1 per mille of population against 47.0 in the previous quarter. The deaths registered numbered 879 with a death-rate of 27.8 against 28.3 in the preceding quarter. The infant deaths totalled 203, the infant mortality rate being 152.5 as compared with 123.9 in the previous quarter.

Epidemic Diseases.—One attack and one death from plague were reported. The city was free from small-pox and cholera. Eleven anti-cholera inoculations were done. Of 3,888 vaccinations done 1,766 were primary and 2,122 were re-vaccinations. Thirty-four houses were disinfected and 32 wells were chlorinated.

Influenza.—Four cases of influenza were reported.

Typhoid.—Six fatal cases of typhoid were reported. Twenty anti-typhoid inoculations were done.

Stray Dogs.—Four hundred and ninety-nine stray dogs were destroyed during the quarter.

Laboratory.—At the office laboratory the following samples were examined :—

<i>Samples</i>	<i>Number</i>
1. Bacteriological analysis of water.—	
Tap ... 208	} ... 245
Well ... 37	
2. Chemical analysis of water ...	39
3. Water for free chlorine test ...	171
4. Sewage and Sewage effluents ...	5
5. Milk for bacteriological test ...	1
6. Rice for bacteriological examination ...	2
7. Rodents examined for Plague (all negative) ...	14
8. Samples of vomit sent to Krishnarajendra Hospital for cholera (negative for cholera)	3
9. Samples of motion sent to the Public Health Institute, for typhoid and dysentery tests ...	7

Food Inspection.—During the quarter 92 visits were paid to hotels, 189 to coffee clubs, 58 to aerated water factories, 60 to bakeries and 124 to mutton stalls. Decomposed fruits and vegetables of about 74 basketsful

were destroyed in different parts of the city with a view to improve their condition in conformity with the Municipal Act. Two hundred and ninety-one notices were issued under sections of the Municipal Act, and 493 were complied with the terms of notices.

Samples of food-stuffs analysed under the Food Adulteration Act were:—

Sample	Number of samples examined	Number found genuine	Number found adulterated	Number of cases prosecuted	Number of cases convicted	Amount of fines
						Rs. a. p.
1. Cow's milk ...	42	24	18	12	16	17 8 0
2. Buffalo's milk ...	18	13	5	8*	15	16 8 0
3. Mixed milk (cow's and buffalo's.)	6	5	1	2	3	3 0 0
4. Unspecified milk	1	1	...	...	...	...
5. Ghee ...	2	1	1	...	...	...
6. Butter ...	5	4	1	1	...	...
Total ...	74	48	26	23	34	37 0 0

* One case of adulteration of buffalo's milk was compounded for Rs. 10.

Malaria Control.—House connections were recommended to all the new sullage outlets in the city systematically. When there was any delay in giving house connections the pools were drained off to prevent the breeding of mosquitoes. The Gambusia fish are being distributed to the wells and ponds to prevent mosquito breeding and Paris-green is being sprayed every week to prevent anopheline breeding in all the breeding places and Malariol is being used to prevent culex breeding.

Anti-rat Campaign.—During the quarter rat traps were distributed to 2,900 houses and 1,700 rats were captured and destroyed.

(3) **Kolar Gold Field.**

M. RAMACHANDRA RAO, B.A., M.B.B.S., C.P.H.,
Health Officer.

Vital Statistics.—In the quarter under report 944 live-births, 38 still-births, 197 infant deaths and 604 deaths from all causes were reported. The birth-rate was 45·5, the death-rate 29·1 and the infant mortality rate 208·7 against 47·3, 26·2 and 160·7, respectively, in the previous quarter.

Epidemic Diseases.—During the quarter the area was free from plague and cholera. Under small-pox 74 attacks and 11 deaths were reported. Of 12,503 vaccinations done, 1,554 were primary and 10,949 re-vaccinations. Thirty-two anti-plague inoculations were done. The cyanogas gang continued to work during the quarter and fumigated 6,474 houses.

Measles.—Two attacks and two deaths were reported, under measles.

Diphtheria.—Two attacks and two deaths from diphtheria were registered.

Influenza.—Fifty-one fatal cases of influenza were reported.

Typhoid.—Four attacks with four deaths from typhoid occurred in the quarter under report.

Disinfection.—During the quarter 154 houses were disinfected.

Stray Dogs.—A total of 338 stray dogs were destroyed.

Anti-rat Campaign.—During the quarter 17,389 rats were destroyed.

Laboratory.—At the office laboratory the following samples were examined.

<i>Samples.</i>	<i>Number.</i>
1. Liver and spleen for anthrax ...	25
2. Smear for G. C. ...	15
3. Nasal smear for leprosy ...	2
4. Blood smear for M. P. ...	1
5. Dead rat for plague ...	7
6. Urine for A. S. ...	11
7. Sputum for T. B. ...	1
8. Motion for hookworm ...	6
9. Water analysis done ...	7
10. Dead squirrel for plague ...	1
11. Free chlorine test done ...	7
12. Blood for R. B. Count ...	1
13. Motion for amoeba ...	1
14. Anti-rabic treatment advised ...	32

Food Inspection.—Inspections of hotels, etc., were done as detailed below :—

			<i>No. of times inspected.</i>
1.	Hotels	...	389
2.	Mutton and fish stalls	...	402
3.	Chakna stalls	...	288
4.	Coffee clubs	...	351
5.	Aerated water factories	...	299
6.	Bakeries	...	282
7.	Markets	...	36
8.	Slaughterhouses	...	36

Sanitary Improvements.—Sanitary improvements, etc., effected during the quarter were :—

1. Completed the paint coat of emulsion work inside Robertsonpet market.
2. Completed the paint coat work of emulsion to Carr road from Oorgaum Railway Station to Surajmal circle.
3. Improved the frontage of the Robertsonpet market by constructing new pillars and with new gate at a cost of Rs. 320.
4. Completed the construction of a drain behind the new stall inside Robertsonpet market at a cost of Rs. 149.
5. Repairs to beef slaughterhouse is completed at a cost of Rs. 463.
6. Constructed a drain behind mutton stalls inside Andersonpet market at a cost of Rs. 236.
7. Constructed a drain behind slaughterhouses inside Andersonpet market at a cost of Rs. 349.
8. Completed the extension of the culvert at the junction of B. M. road with T. B. road at a cost of Rs. 280.
9. Started the premix work of Balaghat-Marikuppam road, and completed $1\frac{1}{2}$ furlongs.

Estimates sent—(1) for excavating wells in 3 villages, viz., Parandapalli, Pottapalli, Thirumalapalli, and (2) for widening the culvert in B. M. road, 2nd fg.

(b) DISTRICT HEALTH ORGANISATIONS.

(1) Mysore District.

C. V. NATARAJAN, B.Sc., M.B.B.S., D.P.H.,

Health Officer.

Dr. C. V. Natarajan was, on relief from the Medical College, Mysore, posted as District Health Officer, Mysore District. He took charge from Mr. G. N. Seshadri on the forenoon of January 6.

The District Health Officer paid 35 visits to towns and visited 37 villages in connection with cholera duty, jatra duty, shifting of villages, land inspection, improvement of sanitation and vaccination inspection.

A special survey of leprosy in the villages of Chamarajanagar Taluk was done and a report was submitted to the Deputy Commissioner.

The following villages were inspected in company with the Amildars concerned and the Land Acquisition Officer, Krishnaraja Sagar Division, in connection with village shifting and land inspection.

1. Siddalingapura, Mysore Taluk.
2. Kemmanahalli, Krishnarajanagar Taluk.
3. Thippur do do
4. Kanaganahalli do do
5. Vaidyanathapura, Maddur Taluk.
6. Nagarakere, do do
7. Malligere, French-Rocks Taluk.

Plague.—During the quarter 9 attacks with 4 deaths from plague were reported. A total of 12,205 anti-plague inoculations were performed including 2,981 done by the Special Duty Sub-Assistant Surgeon.

Small-pox.—There were 12 attacks with two deaths reported under small-pox. A small-pox vaccination campaign was started at T.-Narsipur and Nanjangud from March 15, with five District Board Vaccinators. The vaccinations done till the end of March were as follows:—

Primary	Re-vaccinations	Total	Remarks
1,159	3,019	4,178	Conducted by the five District Board Vaccinators during the vaccination drive in Heggaddevankote Taluk.
3 557	4,746	8,303	Do do Malvalli Taluk.
780	1,346	2,126	Do do Nanjangud from March 15.
...	...	4,000	Do do T.-Narsipur from March 15.

In addition to these 542 vaccinations were done by the medical officers of dispensaries.

Cholera.—There were reports of outbreaks of cholera epidemic from Doddapura and Gargeswari in T.-Narsipur

Taluk, Nambinayakanahalli in Maddur Taluk, and Banooru and Thagadur in Nanjangud Taluk. On investigation it was found that they were not cases of true cholera. Water sources in each of these places, however, were chlorinated by the addition of perchloron. A total of 514 anti-cholera inoculations were done.

Malaria.—The Director of Public Health in company with the Superintendent, Bureau of Epidemiology, visited the malaria stricken villages in Krishnarajanagar and Krishnarajpet taluks. A special survey was made by the Superintendent, Bureau of Epidemiology, of the Shimshapur Colony. Over 8,130 quinine pills of 2 grs. 1,000 totaquina pills of 5 grs. and 100 totaquina pills of 10 grs. were distributed. Spleen survey of Chilkinda, Malligere and Kanaganahalli was taken up. Four schools were visited and 134 children and adults were examined for the spleen survey.

Hookworm.—At the end of March arrangements were made for starting campaign against hookworm in Periyapatna Sub-taluk with a special staff of one Health Officer and two Assistant Sanitary Inspectors.

Jatras.—Sanitary arrangements in respect of daily removal of rubbish, providing temporary borehole latrines, and providing safe drinking water supply, etc., were made at the six major and three minor jatras noted below:—

<i>Place</i>			<i>Jatra</i>
1.	Chunchanakatte	...	Major
2.	Mudukathore	...	do
3.	Hemagiri	...	do
4.	Bettadapura	...	do
5.	Melkote Vairamudi	...	do
6.	Bebihill	...	do
7.	Kottebetta	...	Minor
8.	Karighatta	...	do
9.	Nanjangud	...	do

Baby Show.—During the quarter one baby show was held at Mandya.

(2) Shimoga District.

E. ANANTHA RAO, B.Sc., M.B.B.S., D.P.H.,

Health Officer.

The District Health Officer was on tour for 68 days during the quarter. He visited eight towns and 39 villages

including eight model villages. As a routine the birth and death and marriage registers were checked in all the places he visited. He gave informal health talks to the villagers and verified vaccinations. He attended two meetings of the Shimoga Municipal Council and one meeting of the Bhadravati New Town Board.

During the quarter 3,312 live-births, 109 still-births, 343 infant deaths and 3,197 deaths from all causes were registered. The computed birth-rate was 24·4, the death-rate 23·6 and the infant mortality rate 103·6 as compared with 24·0, 21·2 and 142·7, respectively, in the previous quarter.

Plague.—The District was reported free from plague in the quarter under report.

Small-pox.—Small-pox infection prevailed in Chennagiri town, Bannihatti, Hebbalgere, Vaddanahal, in Chennagiri taluk accounting for 52 attacks and four deaths. Three vaccinators were posted for intensive vaccination work in the infected area.

During the quarter 10,677 vaccinations were done of which 6,468 were primary and 4,209 re-vaccinations. Compared with the two previous quarters there was a marked increase in the vaccination work in the quarter under report, as detailed below :—

Quarter	Primary	Re-vaccinations	Total
July—September, 1938 ...	3,782	1,267	5,049
October—December, 1938 ...	6,589	1,978	8,567
January—March, 1939 ...	6,468	4,209	10,677

Cholera.—The district was free from cholera.

Pneumonia.—A sudden outbreak of pneumonia at Chordi was reported by the Amildar, Kumsi. The village was inspected and a house-to-house examination of the patients was made. Enquiry showed that the people exposed themselves to inclement weather for one full night, with the result that some of them caught chill and developed acute bronchitis which later turned into pneumonia. The District Medical Officer also visited the village and administered medicines to the patients.

Diphtheria.—Two cases of diphtheria were reported by the District Medical Officer. The patients were promptly

hospitalised for treatment. The contacts were examined and kept under observation.

Malaria.—The District Health Officer visited a few villages commanded by the Anjanapur Right Bank Channel and conducted a rapid spleen survey.

Guineaworm.—Occurrence of guineaworm disease was reported at Ghantapur in Honnali taluk. The District Health Officer visited the village with the Sub-Assistant Surgeon and the Sanitary Inspector of Honnali, examined 24 patients and suggested preventive and curative measures. The conversion of the step-well into a draw-well is being done and in the meantime the well is being chlorinated.

Baby Show.—Baby shows were held at Shikarpur, Hosanagar, Kumsi and Bhadravati. The District Health Officer took part in all the shows, adjudged the babies and gave health talks to the mothers. About 360 babies were examined.

Taluk Conferences.—Taluk Conferences were held at Kumsi, Hosanagar, Tirthahalli and Shikarpur. The District Health Officer attended the function and gave short talks on health topics in Kannada.

Jatras.—Jatras and cattle fairs were held at Rampur (Honnali) Thogarsi (Shikarpur) and Kudli (Shimoga). Suggestions were given to the authorities of the jatras, regarding sanitary arrangements required. The water sources were chlorinated. The sanitary arrangements were made and supervised by the Sanitary Inspectors.

Health Propaganda.—Lectures on health aided by lantern slides were given at Chennagiri and at Chinnikatte, a model village in Honnali taluk. The Director of Public Health made arrangements for health cinema shows at Bhadravati, Kumsi, Jog Colony, Anavatti, Mosarur, Ediyur, Tirthahalli and Shimoga. These shows were largely attended.

(c) Voluntary Organisations.

RED CROSS SOCIETY.

During the quarter under report no meetings of the Executive Committee of the Indian Red Cross Society (Mysore State Branch) were held.

OTHER CENTRES.

The work done in the other centres is detailed in the following statement.

Maternity and Child Welfare Work done

No.	Place	Name of Centre	No. of Clinics held		
			Ante-natal	Post-natal	Children's
1	Bangalore	Belimut Creche	...	...	...
2	Do	Civic and Social Progress Association.	9	8	7
3	Do	Deena Seva Sangha, Malleswaram	...	...	...
4	Do	Mahila Seva Samaj, Basavangudi, Bangalore City.	12	12	12
5	Do	Hebbal Child Welfare Centre, Bangalore.	6	...	12
6	Do	Child Welfare Centre, Bangalore, W. C. and Silk Mills.	...	...	...
7	Bethalur	Bethalur Baby Clinic, Methodist Mission.	...	...	11
8	Bhadravati	Bhadravati Iron Works Child Welfare Centre.	...	...	...
9	Channapatna	Maternity and Child Welfare Centre	...	...	...
10	Chitaldrug	Do do	15	...	...
11	Chikmagalur	Do do	12	...	12
12	Davangere	Do do	...	...	...
13	French-Rocks	Do do	47	...	47
14	Kengeri	Gurukula Ashram	...	...	...
15	Hassan	Methodist Mission combined Dispensary and C. W. Centre.	13	...	13
16	Kolar Gold Field.	Champion Reefs Mines	...	...	...
17	Do	Mysore Mines	...	...	...
18	Do	Nandidroog Mines	...	...	...
19	Do	Oorgaum Mines	...	...	...
20	Do	Sanitary Board Area Child Welfare Centre, Robertsonpet.	13	13	13
21	Kolar	Maternity and Child Welfare Centre	...	...	...
22	Koppa	Do do	9	9	9
23	Mysore	Civic and Social Progress Association	5	...	49
24	Do	Maternity and Child Welfare Clinic, Vani Vilas Hospital.	12	...	12
25	Do	Devaraj Centre	...	...	...
26	Do	Gajasala Centre	...	...	...
27	Do	Krishnarajendra Mills Creche	6	3	6
28	Do	Mahila Seva Samaj, Ante-natal and Child Welfare Centre.	...	...	...
29	Do	Mallamma Centre	...	...	...
30	Do	Savoy Centre	...	...	...
31	Do	Subramanyam Centre	...	...	...
32	Do	Vani Vilas Milk Centre	...	...	...
33	Do	Vocational Institute for Women	...	...	...
34	Do	Toddler's School in Gajasala Centre	...	...	...
35	Do	Do in Nanjaraja Bahadur Chattram.	...	...	...
36	Do	Do in Kantharaj Urs Chowk.	...	...	...
37	Nanjangud	Maternity and Child Welfare Centre.	12	...	33
38	Sarjapur	Do do	...	...	...
39	Mandagadde	Do do	...	...	...
40	Shimoga	Lady Mirza Ismail Milk Centre	...	...	...
41	Sivasamudram	Maternity and Child Welfare Centre.	...	...	...
42	Tarikere	Do do	12	...	12
43	Yarnahalli	Do do	12	12	12
Total (Mysore State)			195	57	260

during the quarter January to March 1939.

No. of Cases examined								No. of Children that were			No. of House Visits paid			Remarks
Pregnant women				Children				Weighed	Bathed	Given milk	First visit	Re-visit	No. of deliveries attended	
First Examination	Re-Examination	No. treated	No. referred to Hospitals	First Examination	Re-Examination	No. treated	No. referred to Hospitals							
...	...	...	...	...	...	18	...	47	58	58	...	...	...
4	3	...	2	7	...	...	...	41	41	41	270	270	5
...	...	...	...	1,505	60	...	1,565	...	185	...	35	16	...
102	92	24	4	164	150	4	4	164	...	4	203	188	42	
29	13	42	42	14	251	83	...	265	...	84	1,195	297	11	
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	...	3	25	24	6	11	...	9	3	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
110	90	30	...	30	10	20	20	...	...	...	52	50	84
30	140	170	170	30	191	221	221	20	20	20	54	165	...	
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
115	91	67	5	131	210	48	2	256	...	8	...	...	76
...	...	...	...	...	...	158	...	...	80	...	6	4	...
41	125	...	...	12	282	...	20	20	20	...	67	44	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
72	79	10	16	45	65	6	8	36	39	86	289	423	31	
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
36	42	78	10	25	32	57	3	57	...	...	8	6	8
5	4	...	...	19	19	...	2	16	23	19	...	...	1
473	221	694	630	74	11	85	62	85	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
32	12	4	6	52	55	20	16	107	26	26	4	9	...	
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	
96	82	74	74	33	20	20	18	33	33	33	24	18	6	
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	139	...	...	...
...	...	...	Report	Not	received	...	...	...	...	...	...	...	...
83	281	66	58	146	290	124	...	12	...	...	233	620	78
25	23	20	1	35	32	18	18	48	25	2	25	20	6	
1,253	1,298	1,289	1,018	2,325	1,703	906	1,965	1218	550	479	2,468	2,130	348	

BUREAU OF EPIDEMIOLOGY.

B. ANANTHASWAMY RAO, B.SC., M.B.B.S., M.P.H.,
Superintendent.

The Superintendent visited the following places in the quarter under report in connection with inspection work and special surveys.

Name of Place	Purpose	No. of Villages Visited
Chikballapur ...	Inspection of borehole latrines ...	1
Closepet ...	Accompanied the D. P. H. ...	1
Hiriyur ...	Inspection of Malaria Station. Accompanied the Rockefeller Foundation Fellows.	2
Chitaldrug ...	Inspection of Guineaworm Unit work.	1
Markonhalli ...	Inspection of malaria work along the new Canal area with the Executive Engineer. Took Rockefeller Fellows on study tour.	2
Mysore ...	Inspection of malaria work. Accompanied the D. P. H.	2
Nagenhalli ...	Inspection of Malaria Station ...	1
Mandya ...	To deliver a lecture on Malaria at the Conference.	1
Chikmagalur ...	In connection with the Dewan's visit and Second Member's visit in March.	2
Sakrepatna ...	Do do ...	2
Mudigere ...	Do do ...	2
Bhadravati and Chan- nagiri.	Inspection of Malaria work. Atten- ded the meeting of New Town Sanitary Board and inspection of villages along the Canal.	1
Sivasamudram ..	Inspection of malaria work ...	1
Shimshapur ...	Inspection of malaria control and mass quinine treatment works.	1
K. R. Nagar ...	Accompanied the D. P. H.	1
Krishnarajpet ...	On inspection of Vaccination and	1
Akkihebbal ...	Hookworm campaign works.	1
Periyapatna ...	Investigation of malaria epidemic.	1
Koppa ...	Do do ...	1
Haptur ...	Do do ...	1
Alanahalli ...	Do do ...	1

A rapid malaria survey of the villages under the Bhadra Canal was made during the quarter as a preliminary to the detailed health survey sanctioned by Government Order No. G. 8537 P. H. 104-38-8 for a period of six months. The staff sanctioned for the survey consists of :—

Third Class Health Officer	...	...	1
Assistant Sanitary Inspector	...	...	1
Sub-Overseer	...	...	1
Peons	...	...	2

A few villages along the banks of the Cauvery and the Hemavathi in the Krishnarajanagar and Krishnarajpet taluks were inspected jointly with the Director of Public Health to investigate the reported epidemic prevalence of malaria in these areas.

MALARIA CONTROL.

Nagenhalli.

During the quarterly spleen and parasite survey 68 persons of all ages were examined in Nagenhalli, of whom 20 showed enlargement of spleen with 4 parasites in their blood giving a spleen rate of 29.4 and a parasite rate of 5.9 as against rates of 20.0 and 6.2, respectively, in the corresponding quarter of the previous year.

In Nagoonhalli out of 48 persons examined only 4 showed enlarged spleen and only 1 parasite in the blood was found giving a spleen rate of 8.3 and a parasite rate of 2.1 as against 8.1 and 8.1 for the corresponding quarter of last year.

The total number of persons examined by the staff during the quarter in the control and peripheral stations during the spleen survey was 180 and 180 blood smears were examined for parasites. The number of larvæ collected and examined for the identification of species were 446 and 279 adult mosquitoes were caught in the regular catching stations and identified.

The special observations in the paddy fields were stopped as the paddy was all harvested by the beginning of the quarter. Arrangements have been made with the Horticultural Department for the supply of shade plants to be planted on either bank of the Devarayanala. The banks were kept clear of vegetation and as heavy breeding of the carrier species appeared, the length of the channel

cleared was again regularly Paris-greened. This will be continued till the shade plants grow up when the observation on the effect of shade will be continued.

Mudgere.

During the quarterly spleen survey 126 children were examined out of whom only 101 were resident in the town. Of these 101, 36 showed enlarged spleens and only 2 showed parasites in their blood, giving a spleen rate of 35.6 and a parasite rate of 1.9 as against 28.2 and 2.3, respectively, for the corresponding quarter of the previous year.

The corresponding rates for the uncontrolled peripheral areas were 53.3 and 8.9 as against 45.0 and 17.2 for the same period last year.

The number of anopheline mosquitoes caught in the catching stations in the town and peripheral areas was 781 as against 873 last year. The total number of larvæ collected and examined during each day's work in the quarter is 7,625.

Statistics of town malaria cases as received from the Local Fund Dispensary and the private medical practitioners show that 13.0 per cent of total cases treated was for malaria as against 18.7 for the corresponding quarter of last year.

The experiments in regard to herbage packing and effect of shade plants on anopheline breeding were continued during the quarter. From the figures available the effect of herbage packing have been found in the lengths so packed. As regards the effect of shade plants on *A. culicifacies* and *A. fluviatilis* the observations seem to indicate that *A. culicifacies* requires less dense shade conditions than *A. fluviatilis*.

As indicated in the report for the previous quarter, the survey of villages in a zone of five miles round Mudgere was started and 18 villages were visited for a preliminary spleen survey. The average spleen rate for these 18 villages was 81.2 per cent.

A detailed survey of all the anopheline breeding places within a half mile zone of each village was done in the case of 5 villages.

Hiriyur.

The spleen survey of the town showed that 22 children out of 60 examined showed enlarged spleens and only

three showed parasites in their blood, thus giving a spleen rate of 36.7 and a parasite rate of 5.0 per cent as against 35.0 and 8.5, respectively, for the corresponding quarter of last year.

The number of children examined in the control and peripheral villages was 200 both for enlargement of spleen and the presence of parasites in their blood.

In the laboratory 1,098 larvæ were examined and 1,926 adult anophelines were identified during the quarter.

Dispensary statistics show that 37.1 per cent of all cases treated was for malaria as against 39.1 in the corresponding period of last year.

The drainage of all the valleys was started during the quarter and the drains have been opened out in all of them to study the effect of the present alignment. Most of the swamps have dried up as a result and a considerable amount of the seepage has been arrested.

The local potters have been successfully initiated into the method of preparing tile pipes for subsoil drainage of these valleys and four of them were able to prepare 170 pipes a day. The quality of these pipes is quite satisfactory and it is estimated that an 8" pipe will cost about Re. 0-1-6. This has incidentally created a new cottage industry inas much as tile pipes will be considerably in demand in future.

One of the syphons proposed was under construction during the quarter across what is locally known as the Cheeta valley. It is expected that when this is put in service it will keep the valley free from anopheline breeding.

Details in connection with the canalising of the river bed and the method of protecting the sides of this central canal were still under examination.

Mandya.

The control work in the villages was continued during the quarter. The staff collected and examined 1,612 adult mosquitoes in the laboratory.

The Health Officer completed the examination of the 600 blood smears taken in the control and peripheral villages during the quarter. The parasite rates for the half year beginning with October 1938 for all the 10 control villages and the four peripheral villages as compared

with the corresponding figures for the previous years are given below :—

Parasite Rates for Half-year beginning October each year.

No.	Village	1935	1936	1937	1938
<i>Control Villages.</i>					
1	Chickmandya ...	25.0	4.0	5.0	4.3
2	Satnoor ...	21.3	4.2	4.0	6.0
3	Kommerhalli ...	17.5	10.0	11.0	6.1
4	Honganahalli ...	16.2	11.7	10.0	8.8
5	Hulivana ...	16.0	14.0	8.0	2.4
6	Gopalapura ...	24.5	7.5	4.4	4.4
7	Kodihalli ...	20.0	6.6	12.0	29.6
8	Malligere ...	20.0	6.0	12.0	12.0
9	Jaigundipatna ...	26.0	4.1	10.0	4.1
10	Kallahalli ...	23.8	6.0	9.0	11.4
<i>Peripheral Villages.</i>					
1	Kilara ...	34.0	18.3	22.0	13.0
2	Ummadahalli ...	30.0	18.9	14.0	16.0
3	Mallanaikanakatte ...	10.0	16.0	16.0	20.0
4	Panakanahalli ...	25.6	13.3	8.6	16.7

It will be seen that except for Kodihalli, the parasite rate is either stationary at a low figure or shows a further fall in each of the controlled villages as against the four comparative villages, where the rates are definitely higher. The increase in the parasite rate and also in the spleen rate in Kodihalli village began in 1937 and has been on the increase in spite of particular attention paid to paris-greening within the two furlong zone round this village. The two factors peculiar to this village are (1) the extensive paddy cultivation with transplantation throughout the year and (2) the close association with the Farm which is hyper-endemic for malaria, where children from this village have sought employment.

The Health Officer closely worked with the irrigation Engineers to get the suggested permanent improvements in the villages of Kyathangere, Bevinahalli and Sundahalli completed as soon as possible.

Chikmagalur.—The anti-malaria work in Chikmagalur town was continued during the quarter and the Health

Officer, Malaria Station, Mudgere, inspected the control work twice during each month. During his visit the Health Officer visited all the areas and made test collections of larvæ and adults which were all identified at Mudgere.

A detailed spleen survey of the town was made by the Health Officer in January and out of 693 children examined in the schools in the different parts of the town, 150 were found to have enlarged spleens, giving a spleen rate of 21·6. The children in the Convent Mixed Primary School showed the highest spleen rate of 26·9 whereas the children in the Urdu Primary Boys' School (Fort) showed the lowest (12·5).

Out of 2,014 larvæ collected, 356 were found to be of the carrier species. Out of 309 adult anophelines caught, only 42 were of the carrier species.

Of the 83 wells examined in the town, no mosquito breeding was noticed in 63, culex breeding in 11 and anopheline breeding in five.

A consignment of the larvicidal fish *Gambusia* was sent from Bangalore and a local nursery has been established. The fish after they multiply will be stocked in all the wells, ponds and tanks.

Sakrepatna.—Systematic paris-green spraying was continued throughout the quarter. The moat and the Thenginamaradahalla which were inaccessible were cleared for short lengths to enable spraying of paris-green. Two swamps, one behind the Areka garden and the other near the Gowrihalla, were drained by the malaria staff.

Two hand flushes, one furlong apart, were got put in through the co-operation of the Executive Engineer, Kadur, across the Basavankalve above the Kadur-Chikmagalur Road. These are simple devices and are being operated once in every four days. From the observations made, the flushing is effectively controlling anopheline breeding for about a furlong down. This length of channel has not been sprayed with paris-green.

Shimshapur.—The measures recommended for the control of malaria in Shimshapur construction colonies had not been given effect to in full owing to the lack of trained personnel. A trained Sanitary Inspector was posted towards the end of the quarter who by the close of the quarter administered mass treatment to 3,647 people, of whom only 410 were continuously at work and received the recommended full course of treatment.

Sivasamudram.—The Sanitary Inspector continued to look after the anti-malaria work also. It was found that the expansion of the old balancing reservoir had created new problems of seepage and heavy outcrops were noticed near the school and the church. The open field adjacent to the church was heavily waterlogged and numerous shallow open drains had been excavated in an attempt to drain this without success.

The situation has been brought to the notice of the local authorities.

Bangalore City.—Anti-mosquito work was continued in the city throughout the quarter. In spite of the regular oiling, there were complaints of localised mosquito nuisance. The measures recommended for reorganising the staff to give a better control of the mosquito nuisance were still under consideration of the Council.

The staff examined 3,224 wells during the quarter and restocked 1,785 wells with the larvicidal fish. The number of anophelines and culicines caught during the quarter were 74 and 412, respectively, as against 64 and 593, respectively, during the corresponding quarter of last year.

Mysore City.—The anti-malaria staff examined 756 wells and restocked all of them with fish during the quarter. In addition, larvicidal fish was stocked in four ponds which were found breeding. The oiling and paris-green spraying was continued as usual.

The adult mosquitoes caught and identified from the catching stations numbered 195, of which 17 were of the carrier group as against 207 and 16, respectively, in the corresponding quarter of the previous year.

Special Malaria Surveys.

Villages in Pavagada Taluk.—On a report of epidemic prevalence of malaria in the villages of Pavagada Taluk, Tumkur District, a detailed survey of Pavagada town and a spleen survey of some of the surrounding villages was done during the quarter. At the time of the visit, the reported epidemic had practically subsided though the after-effects were still in evidence. As is usual for this part of the State, the epidemic followed an unusual rainfall during the preceding quarter.

During the spleen examination, 79 out of 285 children examined in the town showed enlargement of spleen, giving

a spleen rate of 27·7. The dispensary figures showed a sudden jump of malaria cases treated from an average of 15 per cent to 40·4 per cent of all cases treated.

The carrier species of anophelines were found breeding in the moat and a few valleys with running water round the town.

As this is an area subject only to occasional epidemics of malaria, it was recommended that temporary treatment centres may be started for affording immediate relief.

The other villages visited where only spleen surveys were done were :—

Spleen Rates in villages near Pavagada.

Village.	Spleen Rate.		
Kurbenahalli	82'3
Nagalmadike	37'0
Sri-Rangapur	57'7
Bommuvathnahalli	21'3
Hoskote	7'8

Villages under Marconahalli Reservoir.—To study the existing conditions in the villages situated in the area to be irrigated from the Marconahalli dam, a spleen survey of all the villages was made during the quarter. There were 26 villages in this area, of which three have inhabitants. There are 16 villages which lie on the water spread and 6 villages are to be submerged. It was observed that except in the case of 7 villages, the spleen rates in all the others range from 0 to less than 10; and in these 7 villages the spleen rates vary from 10·0 to 15·5 which is the highest figure for the whole group. Thus, under the Kasauli classification of malaria endemicity, only seven villages would be moderately endemic for malaria and the others free.

Unless measures are promptly taken to have controlled irrigation in this area, it is expected that the malaria conditions usually associated with canal irrigation would repeat. Estimates, are however, under preparation for drainage and removal of surplus water in a group of villages under one distributary.

Villages served by the Bhadra Channel.—The health conditions in these villages are reported to have adversely affected the full exploitation of the land due to the incidence of malaria. As a preliminary to a detailed survey sanctioned in Government Order No. G. 8537-9—P. H. 104-38-8, a spleen survey of all the 23 villages in this area

was done. The population in these 23 villages ranges from 46 to 900, with the exception of old Bhadravati town which has a population of 5,300 where anti-malaria work is being done for the last two years.

It was found that, with one single exception, malaria is hyper-endemic in all the villages and the spleen rates would indicate that malaria is sufficiently bad to prevent any agricultural development. The establishment of a Health Unit in this area is under consideration.

French-Rocks.—A detailed malaria survey of French-Rocks town was made and it was found that the spleen rate for the whole town was 39.3, the spleen rates in different parts of the town varying from 27.5 to 53.8.

The important anopheline breeding places found were (1) the tank, (2) the small channels and waste water valleys, and (3) the abandoned wells.

Among the local anopheline carriers both *A. culicifacies* and *A. fluviatilis* were found breeding in these places and adult females of these species were caught in houses and cattle sheds.

Central Laboratory.

The services of the Entomological Assistant were utilised to study the water plankton as they developed in four pits specially dug for the purpose under the Sankey's reservoir. It was also tried to find out at what stage anopheline breeding would start in these pits. Each of these was six feet in length, two feet in width and four feet deep, with clear subsoil water at depths varying from 1½ to 2 feet.

Adult *A. stephensi mysorensis* were got from Hiriur and the eggs collected from these were raised in the Laboratory for purposes of getting laboratory-raised adult *stephensi* females. From these eggs 250 full grown larvæ, 20 pupæ and 120 eggs were obtained and sent to Madras where the susceptibility of this variety to malaria infection as compared to the type form was tried at Guindy.

A number of flies from different types of places in different localities in Bangalore were collected. As there is no information about the species of flies in the city, a preliminary attempt is being made to classify them into species.

Hookworm Campaign.

The Third Class Health Officer for Hookworm Campaign reported himself for duty during the second month of the quarter. He was given an opportunity to get himself familiar with the methods of examination of faecal samples at the Public Health Institute. The unit with the Officer in-charge and two Assistant Sanitary Inspectors was established with headquarters at Periyapatna towards the end of the quarter. A detailed programme of visits to the villages has been drawn up and it is expected that the first round of visits for propaganda and treatment will be finished before the monsoon sets in in June.

The staff is also to be made use of for making spleen survey and preparing rough sketch maps, showing all anopheline breeding places within a radius of two furlongs of each village, and to collect information about the actual malaria situation in these villages.

Guineaworm Control.

The Assistant Sanitary Inspector doing guineaworm work visited 220 villages during the quarter, of which 156 villages were visited for the first time. During these visits 108 step wells were examined, of which 16 were stocked with fish for the first time and in 36, fish were restocked.

Active guineaworm infection was noticed in only five out of the 220 villages visited all in Chitaldrug Taluk.

Control of Epidemic Diseases.

During the quarter 224 attacks with 121 deaths from plague in 71 places, and 209 attacks with 34 deaths from smallpox in 21 places were reported. On account of the expected rise in the incidence of smallpox in 1940, arrangements are being made for carrying out a State-wide vaccination drive. The State was free from cholera in the quarter under report.

According to reports received 23,457 anti-plague inoculations and 573 anti-cholera inoculations were done. Excluding Mysore District 68,433 vaccinations were done as detailed in the following statement. The percentage successes in primary vaccinations varied between 92.1 per cent and 99.6 per cent, indicating very good results with the vaccine supplied from Department.

Statistics of Primary and Re-vaccinations done in Mysore State during the quarter, January—March 1939.

District	Number of vaccinations done				Primary vaccinations					Re-vaccinations				
	Total	Unknown	Unsuccessful	Successful	Total	Unknown	Unsuccessful	Successful		Success Rate excluding unknown	Total	Unknown	Unsuccessful	Successful
								Under 1 year	Over 1 & under 6 years						All Ages
Bangalore District (Excluding City.)	6,223	289	267	5,667	5,842	180	84	2,259	3,135	93.5	381	109	183	89
Chitaldrug District	5,238	45	534	4,659	4,838	40	285	2,495	2,018	94.1	400	5	249	146
Hassan District	4,545	588	622	3,335	3,857	517	263	686	2,223	92.1	688	71	359	258
Kadur District	4,644	250	498	3,896	3,515	90	85	488	2,002	97.5	1,129	160	413	556
Kolar District	4,435	350	267	3,818	3,894	141	170	1,490	2,093	95.5	541	209	97	235
(Excluding K. G. F.)														
Mysore District														
(Excluding City.)														
Shimoga District	10,025	1,790	1,459	6,776	5,596	524	282	961	3,035	95.4	4,429	1,266	1,227	1,936
Tumkur District	6,721	399	595	5,727	6,097	809	194	2,048	2,636	96.6	624	90	401	133
Mysore State (Excluding Cities & Special Areas).	41,831	3,711	4,242	33,878	33,639	1,801	1,313	10,427	17,262	95.9	8,192	1,910	2,929	3,353
Bangalore City	4,020	229	1,714	2,077	2,292	222	42	1,436	592	98.0	1,728	7	1,672	49
Mysore City	3,888	419	1,186	2,283	1,766	125	32	1,112	497	98.0	2,122	294	1,154	674
Kolar Gold Field	12,503	1,819	3,196	7,488	1,554	19	48	719	768	96.9	10,949	1,800	3,148	6,001
H. T. C., Closepet	1,413	116	438	864	856	37	45	485	285	94.5	557	79	388	90
R. H. U., Mandya	4,538	487	510	3,541	1,737	44	21	677	946	98.8	2,801	443	489	1,869
Model Range	240	7	1	232	239	7	1	94	132	99.6	1	...	...	1
Mysore State Including Cities & Special (Areas).	68,433	6,788	11,282	50,363	42,083	2,255	1,502	14,950	20,482	96.2	26,350	4,533	9,780	12,087

TABLE I.

Spleen and Blood Examinations made in the Experimental Malaria Stations during the Quarter January—March 1939.

	0-9			10-19			20 and over			All ages		
	No. Ex.	No. Inf.	% Inf.	No. Ex.	No. Inf.	% Inf.	No. Ex.	No. Inf.	% Inf.	No. Ex.	No. Inf.	% Inf.
Spleens												
Spleens not examined	...	...	...	...	...	...	...	...	...	...	...	...
Spleen Negative	158	2	1.3	19	...	...	18	1	5.5	195	3	1.5
Palpable	9	...	...	1	...	...	1	...	...	11	...	...
1	28	4	14.3	4	1	25.0	3	...	...	35	5	14.3
2	14	1	7.1	3	...	...	1	...	...	18	1	5.5
3	5	...	...	5	...	...	1	...	...	11	...	...
4	6	1	16.6	...	...	...	...	...	...	6	1	16.6
5	1	...	...	...	...	...	...	...	...	1	...	...
All persons with palpable Spleen.	63	6	9.5	13	1	7.7	6	...	...	82	7	8.5
Grand Total—All Spleens ...	221	8	3.6	32	1	3.1	24	1	4.2	277	10	3.6
Spleen Rate ...	221	63	28.5	32	13	40.6	24	6	25.0	277	82	29.6

TABLE II.
Adult Catches in Control and Peripheral Areas.

Species	Nagenahalli		Mudgere		Hiriyur		Nagoonhalli	
	Pd. zn.	Pl. zn.	Pd. zn.	Pl. zn.	Pd. zn.	Pl. zn.	Pd. zn.	Pl. zn.
<i>A. aconitus</i>	9	16	7	21	4	9	1	10.0
<i>A. aitkeni</i>	...	...	...	...	...	...	...	...
<i>A. annularis</i>	5	77	9	88	3	6	11	...
<i>A. barbirostris</i>	...	1	...	...	...	...	...	...
<i>A. culicifacies</i>	42	95	22	20	46	99	51	...
<i>A. fluviatilis</i>	18	62	1	34	31	121	22	...
<i>A. hyrcanus</i>	3	1	...	2	1	4	...	...
<i>A. insuladorum</i>	...	...	...	...	...	...	...	...
<i>A. jamesii</i>	6	22	...	22	2	...	2	...
<i>A. jeyporiensis</i>	1	2	33	228	...	...	162	...
<i>A. karwari</i>	...	...	...	...	...	...	...	...
<i>A. leucosphyrus</i>	...	...	...	...	...	...	...	...
<i>A. maculatus</i>	...	...	...	...	...	...	...	...
<i>A. minimus</i>	...	...	...	...	...	...	...	...
<i>A. majidi</i>	...	...	...	...	...	...	...	...
<i>A. pallidus</i>	...	2	1	14	...	2	...	...
<i>A. splendidus</i>	4	2	1	2	...	1	...	...
<i>A. stephensi</i>	...	...	...	...	...	100	...	...
<i>A. subpictus</i>	22	58	81	183	48	743	38	...
<i>A. tessellatus</i>	1	...	...	1	658	1	1	...
<i>A. turkeudi</i>	...	...	...	...	3	6	...	...
<i>A. vagus</i>	16	28	12	36	29	9	27	...
<i>A. varuna</i>	...	...	2	14	...	...	...	...

TABLE III.

Species of Malaria Parasites

Nagenahalli								
Age		Total No. Inf.	B. T.		M. T.		Q.	
			No. Inf.	% Inf.	No. Inf.	% Inf.	No. Inf.	% Inf.
1		2	3	4	5	6	7	8
0-9	...	3	2	66·6	...	...	1	33·3
10-19	...	...	...	...	...	...	...	...
20 and over	...	1	...	...	...	...	1	100·0
All ages	...	4	2	50·0	...	...	2	50·0
Mudgere								
Age		Total No. Inf.	B. T.		M. T.		Q.	
			No. Inf.	% Inf.	No. Inf.	% Inf.	No. Inf.	% Inf.
9		10	11		12	13	14	15
0-9	...	1	1	100·0	...	...	...	...
10-19	...	1	1	100·0	...	...	...	...
20 and over	...	...	...	...	...	...	...	...
All ages	...	2	2	100·0	...	...	...	...
Hiriyur								
Age		Total No. Inf.	B. T.		M. T.		Q.	
			No. Inf.	% Inf.	No. Inf.	% Inf.	No. Inf.	% Inf.
16		17	18		19	20	21	22
0-9	...	3	1	33·3	2	66·6	...	...
10-19	...	...	...	...	...	...	...	...
20 and over	...	...	...	...	...	...	...	...
All ages	...	3	1	33·3	2	66·6	...	...

Typhoid investigation.—In connection with the investigation of typhoid in Bangalore City, 23 samples were examined during the quarter as shown below:—

BUREAU OF LABORATORIES.

(a) PUBLIC HEALTH INSTITUTE.

G. M. DOMINICK, M.R.C.S., D.P.H.,

Superintendent and Chemical Examiner.

1. **Bacteriological Section.**—During the quarter 3,748 samples were examined in the bacteriological section as detailed below :—

No.	Particulars	Positive	Negative	Special samples	Total
1	Blood for Wassermann test ...	793	1,886	...	2,679
2	Do Widal test ...	54	52	...	106
3	Do Blood count ...	...	...	11	11
4	Do Malarial parasites ...	...	14	...	14
5	Do Cultural Examination. ...	...	...	1	1
6	Do Typhoid ...	...	3	...	3
7	C. S. Fluid ...	...	...	1	1
8	Motion for Ova ...	40	173	...	213
9	Do Dysentery and Typhoid ...	...	80	...	80
10	Do Blood ...	2	...	...	2
11	Do Cholera ...	...	2	...	2
12	Smear for G. C. ...	5	14	...	19
13	Do Lepra Bacilli ...	...	2	...	2
14	Do B. pestis ...	3	6	...	9
15	Do Diphtheria ...	2	3	...	5
16	Do Microscopic Examination. ...	...	...	1	1
17	Urine ...	...	...	12	12
18	Sputum for T. B. ...	7	22	...	29
19	Water ...	...	...	538	538
20	Vomit for blood detection ...	1	...	...	1
21	Disinfectants ...	...	...	14	14
22	Pus ...	...	...	1	1
23	Section Cutting ...	...	...	1	1
24	Urine for Bile ...	1	...	...	1
25	Plural Fluid ...	...	...	3	3
Total ...		908	2,257	583	3,748

Typhoid Investigation.—In connection with the investigation of typhoid in Bangalore City, 22 samples were examined during the quarter as shown below :—

<i>Samples.</i>		<i>Positive.</i>	<i>Negative.</i>	<i>Total.</i>
1. Motion	...	3	9	12
2. Urine	...	...	7	7
3. Blood	...	1	2	3
		<hr/>	<hr/>	<hr/>
Total	...	4	18	22
		<hr/>	<hr/>	<hr/>

2. **Chemical Section.**—In the chemical section 574 samples were examined as listed below :—

<i>Samples.</i>		<i>Number Examined.</i>
1. Water for residual chlorine	...	501
2. Water for potable purposes	...	54
3. Blood calcium	...	2
4. Butter	...	2
5. Milk	...	1
6. Incrustation material	...	1
7. Grass	...	1
8. Acid liquor	...	2
9. Essences	...	5
10. Rice	...	2
11. Ghee	...	1
12. Blood sugar estimation	...	2

3. **Medico-legal Section.**—A total of 71 cases with 261 articles were examined during the quarter, *viz.*—

<i>Nature of Examination.</i>	<i>No. of Cases.</i>	<i>No. of Articles.</i>
1. Mammalian blood	33	117
2. Suspected human poisoning	27	115
3. Acid	2	5
4. Rape	6	10
5. Abortion	3	14
In 31 cases mammalian blood was detected		
" 2 " Oleander seeds	"	
" 2 " Aconite	"	
" 2 " Mercury	"	
" 2 " Dhatura	"	
" 2 " Sulphuric Acid	"	
" 3 " Spermatozoa	"	
" 1 case Cannabis Indica	"	
" 1 " Perchloride of Mercury	"	
" 1 " Veronol	"	

4. **Vaccines Issued.**—During the quarter 2,850 c.c. of anti-cholera vaccine and 648 c.c. of T.A.B. vaccine were issued.

5. **Fees.**—Fees received for the examination of specimens and supply of vaccines are detailed below :—

	Jan.—Mar. 1939.			Oct.—Dec. 1938.		
	Rs.	a.	p.	Rs.	a.	p.
1. Bacteriological section ...	31	8	0	65	12	0
2. Chemical section ...	25	0	0	70	0	0
3. T. A. B. Vaccine ...	2,492	10	0	515	7	0
4. Cholera Vaccine ...	480	0	4	149	9	0
5. Miscellaneous receipts ...	1	5	6	5	2	6
Total ...	3,030	7	10	805	14	6

The balances outstandings at the end of the quarter were :—

Items	Demand			Collection			Balance		
	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
1. Bacteriological section.	48	0	0	31	8	0	16	8	0
2. Chemical section.	305	0	0	25	0	0	280	0	0
3. T. A. B. Vaccine.	2,955	14	0	2,492	14	0	463	0	0
4. Cholera Vaccine.	18,563	13	10	480	0	4	18,083	13	6
5. Miscellaneous receipts.	251	5	6	1	5	6	250	0	0
Total ...	22,124	1	4	3,030	11	10	19,093	5	6

6. **Nutrition Section.**—Experiments on the “weight maintenance” of pigeons by feeding them with cereals, supplemented with codliver oil, refined ragi flour, etc., were continued.

Experiments were also made for estimating the relative nutritive value of differently pounded rice, viz., (a) hand-pounded, (b) yatha-pounded and (c) by wooden-grinders.

(b) VACCINE INSTITUTE.

S. R. BHOMBORE, M.B., B.S.,

Superintendent-in-charge.

During the quarter 82 samples of vaccine lymph were examined bacteriologically 425 times. Their potency was tested in serial dilutions on the rabbit and clinically in the Model Range prior to issue. Standards adopted for potency and sterility of lymph issued were continued.

The health of the calves was satisfactory and the demand for vaccine lymph was met in full during the quarter.

The following is a summary of work done at the Institute:—

<i>Particulars.</i>		<i>Number.</i>
1.	Calves waiting on January 1, 1939 ...	11
2.	Replaced against those returned during the previous quarter ...	nil
3.	Calves purchased during the quarter ...	42
4.	„ waiting died ...	nil
5.	„ available for vaccination ...	53
6.	„ returned during the quarter for replacement later on ...	4
7.	„ waiting on April 1, 1939 ...	7
8.	„ vaccinated during the quarter ...	42
9.	„ vaccinated and remained uncollected on April 1, 1939 ...	3
10.	„ vaccinated and rejected ...	2
11.	„ vaccinated and died (uncollected) ...	nil
12.	„ vaccinated and whose pulp was collected ...	39
13.	„ vaccinated and remained over for collection of lymph on April 1, 1939 ...	4
14.	Lymph produced during the quarter was 41,160 grains of pulp equivalent to ...	1,64,670 cases
15.	„ remained over on Jan. 1, 1939 enough for ...	2,61,600 „
16.	„ produced during the quarter enough for ...	1,64,670 „
17.	„ available enough for ...	4,26,270 „
18.	„ issued during the quarter enough for ...	1,27,280 „
19.	„ discarded due to defective potency from storage enough for ...	nil
20.	„ utilised for 'seed' test, etc., enough for ...	17,270 „
21.	„ remained over on April 1, 1939 ...	2,81,720 „
22.	Income realised including arrears as per accounts of this office ...	Rs. 10,731 7 0
23.	Expenditure incurred during the quarter... „	5,602 0 0

Model Range.—A total of 239 primary vaccinations with the lymph of varying age periods for clinical test on children before release for general issue were observed to give a success rate of 99·6 per cent. The oldest lymph used in this Range was preserved for about 2 months and 16 days from the date of production before use and the freshest for about two months, the average period being two months and eight days.

Percentage Success in Primary Vaccinations.—The percentages of successful primary vaccinations reported during the quarter were :—

<i>Area.</i>	<i>Percentage Success.</i>
Bangalore City ...	98'0
Mysore City ...	98'0
Kolar Gold Field ...	96'9
Health Training Centre, Closepet ...	94'5
Rural Health Unit, Mandya ...	98'8
Model Range ...	99'6
Rest of State ...	95'9
Mysore State ...	96'2

BUREAU OF HEALTH EDUCATION.

G. N. SESHADRI, L.M.S., D.P.H.,

Superintendent.

Cinema Publicity.—During the quarter cinema publicity was carried on in all the districts except Kadur, 57 cinema shows being arranged for an approximate audience of about 40,000 persons. The cinema staff travelled, as usual, in the departmental motor van, covering a total distance of 4,059 miles. The details of the shows given are mentioned below :—

<i>Place of Show.</i>	<i>No. of Shows.</i>
1. Bangalore City, C. & M. Station, Bangalore, Kunigal, Tirthahalli, Madhugiri, Mysore City, Mandya, Vadagenahalli in connection with Baby Shows ...	20
2. Shivaganga, Agumbi, Channarayapatna, Mahimapur, Vakkaleri, Kolar and Kabbal, in connection with Jatra and Cattle Fairs ...	14
3. Selected villages in Shimoga and Chitaldrug Districts ...	16
4. Health Training Centre Area, Closepet ...	2
5. Taluk Conference, Closepet ...	1
6. The Mission Hospital, Kolar ...	1
7. Kolar Gold Field Area ...	2
8. Shimshapur Project ...	1

Health Talks in Schools.—The Publicity Officer visited one Primary School and one Middle School and delivered health talks to teachers and pupils.

Lectures.—Three lectures on water, soil pollution, smallpox and vaccination and pre-natal care of mothers were delivered by the Publicity Officer at Vakkaleri, Vibhuthikere and Mandya.

Health Exhibition.—In connection with the health exhibition in connection with the baby show in Vadigenhalli, the department supplied the available health charts, posters, etc.

Newspaper Publicity.—Thirteen weekly bulletins in Kanarese in regard to the state of public health in the State were sent to the press for publication. Convictions by courts of law in Bangalore and Mysore Cities under the Prevention of Food Adulteration Act were given publicity both in English and Kanarese papers.

Distribution of Health Literature.—A total of 10,000 leaflets and pamphlets on health subjects published by the department were distributed free of cost.

Red Cross Lectures.—During the quarter the Publicity Officer delivered in 21 places short lectures on the aims and objects of the Red Cross movement in general, and the activities of the Mysore State Branch in particular.

BUREAU OF RURAL HEALTH.

(a) HEALTH TRAINING CENTRE, CLOSEPET.

T. CHANDRASEKHARAIYA, B.A., M.B.B.S., M.P.H.,

Health Officer.

On the 13th of January 1939 the Viceroy visited the Rural Welfare Centre and in the exhibition that was fitted up for the occasion the Health Centre had a prominent part.

The health of the area was generally satisfactory and the routine activities were carried on undisturbed throughout the period.

INFECTIOUS DISEASES.

Typhoid.—During the quarter four attacks with one death from typhoid were reported. Of these one attack with one death had really occurred in 1938, but had been missed being registered. The cases were all sporadic and

in every case necessary precautions were taken to prevent the spread of infection.

Dysentery.—As against 25 attacks with two deaths in the previous quarter 74 attacks with four deaths were registered during the quarter. The disease prevailed sporadically all over the area and it was nowhere in an epidemic form. Clinically the disease looked as if it was bacillary, but from the five specimens that were sent to the Public Health Institute for examination it was found that a negative report was obtained in each case.

Other Diseases.—There was a rise in the incidence of measles, 52 attacks with one death being recorded as against 15 attacks with no death in the previous quarter. The disease was limited almost entirely to Closepet town. One-hundred and eight cases of chicken-pox were reported. Four cases of pulmonary tuberculosis were also registered.

Chlorination.—According to routine all the drinking water wells—109 public and 421 private—were chlorinated.

Vital Statistics.—The checking of births and deaths by the Sanitary Inspectors was carried out satisfactorily. The figures show that for some reason the reporting by the Patels was slack as compared with that of the previous quarter. Out of 597 births (or 3·8 per cent) and out of 223 deaths 16 or (7·2 per cent) were discovered unregistered. The birth rate for the quarter was 47·8 as against 52·6 and the death-rate was 17·8 as against 21·9 during the previous quarter. There were 98 infant deaths, giving an infant mortality of 164·2 as against 162·5 during the previous quarter.

Maternal Mortality.—There were two maternal deaths and both these occurred among cases previously registered by the Nurses and deliveries conducted by the staff midwives. One had albumin in urine, and the other was anæmic. In spite of repeated advice by the staff to get themselves admitted into the hospitals for treatment, the patients refused to do so. The albuminuria case developed post eclamptic fits before death, and the other died a day after delivery probably through shock due to her extremely anæmic condition.

Vaccination.—During the quarter 1,413 vaccinations were done in the area against 3,435 during the previous quarter. Of these 856 were primary and 557 revaccinations. The primary vaccinations gave a success rate of

94.5 and the percentage of those whose reaction proceeded to the pustular stage among the re-vaccinations was 18.8.

Maternity and Child Welfare.—The work of the Public Health Nurses was satisfactory. During the quarter 66 clinics were held at which 178 pre-natals, 517 infants, 590 pre-school children and 252 others attended as against 69 clinics, 176 pre-natals, 559 infants, 595 pre-school children and 206 others in the previous quarter.

Midwives.—The midwives attached to this Centre conducted 325 (or 53 per cent) deliveries during the quarter.

School Medical Inspection.—The first medical inspection of all the schools in the area was completed during the quarter. Four-hundred and eighty-seven students were examined and of 470 referred for treatment to the local dispensaries, 197 students actually attended the dispensaries.

The details of examinations made during the quarter are given below :—

School Medical Inspection in January-March, 1939.

Particulars	Quarter.			
	January	February	March	January-March
1. No. of schools examined...	2	6	1	9
2. Population of the schools.	89	363	264	716
3. No. examined ...	58	257	172	487
4. „ defective ...	58	252	149	459
5. „ of defects found ...	293	1,057	615	1,965
6. „ of boys referred for treatment ...	46	169	149	344

Health Habit Training.—A week's course in Health Habit Training was given to the teachers in the area in January.

Parent Teachers' Association.—The Parent Teachers' Association at Mathikere, which had arranged for providing mid-day meal to the students of the school, worked fairly satisfactorily during the quarter. The arrangements, however, still need better organisation and efforts are being made to obtain the co-operation that is necessary to make the scheme a success.

Laboratory Examinations.—Six blood samples were sent to the Public Health Institute for Wassermann reaction and 65 blood smears were examined at the office laboratory for malarial parasites. Fourteen sputum smears for tuberculosis, 15 urine samples, two smears for G. C. and one smear for B. Lapræ and 45 samples of stools for hookworm ova were also examined. In connection with the systematic hookworm survey that has been taken up, 340 samples of fæces from the villages were sent for examination at the Public Health Institute.

Consultations.—Nine hundred and forty-two patients were given consultations at the Centre office and 3,684 patients were treated for minor ailments in the villages and at the office.

(b) RURAL HEALTH UNIT, MANDYA.

C. RAMASWAMI, L.M.P.,

Officer-in-charge.

Plague.—The Unit area was free from plague during the quarter except for one fatal case imported from Sunkathonnur Village, French-Rocks Taluk. Infection, however, prevailed in Beeragowdanahalli, a village outside the Unit area, in March causing one attack with nil death. As per instructions of the District Health Officer, Mysore, the village was visited by the Health Officer, and the Assistant Surgeon, Mandya Town, and 109 anti-plague inoculations were performed. The infection subsided thereafter.

Small-pox.—The Unit area was free from small-pox during the quarter.

Cholera.—The area was entirely free from cholera in the period under report.

Vaccination Work.—A survey of unprotected children in the villages of the Unit area was made in December 1938 and it was found that 2,532 children (852 below six months and 1,680 above six months) remained unprotected. As per instructions from the Director of Public Health, intensive vaccination work was undertaken, suspending all other activities, and 1,804 primary and 3,144 re-vaccinations were done during the quarter. At the end of the quarter 1,439 children (577 below six months and

852 above six months) still remained unprotected and these will be vaccinated in the coming weeks.

Midwives.—The two midwives attached to the Unit paid 170 visits to 23 villages under their jurisdiction. They paid visits to 740 pre-natals, 111 after-labour cases and two miscellaneous cases, and conducted 21 labour cases. Both the midwives of the Unit were transferred and substitutes were appointed during January.

Chlorination of Drinking Water Supplies.—The routine work of chlorinating the drinking water supplies was continued during the quarter. A total of 197 wells were got chlorinated as against 436 wells in the previous quarter. As the staff were engaged in intensive vaccination work, all the water sources could not be got chlorinated during the quarter.

General Sanitation.—The Unit staff continued to inspect new constructions of dwelling houses in the villages offering suitable suggestions to the owners. Sixteen house-building license papers were referred to this office for opinion from the Amildars and Panchayet Chairmen, and 12 of them were inspected and disposed of during the quarter. The staff also reported 14 unauthorised constructions of dwelling houses in eight villages and these have been brought to the notice of the Revenue authorities for taking necessary action.

Eleven papers regarding health problems were referred to the Unit office from the Engineering and Revenue Departments and during the quarter 15 such papers were disposed of including pending papers.

Anti-Malaria Work.—The special malaria control work in the ten selected villages by a special staff was continued during the quarter under report. Anti-malaria work in Mandya town was also continued under the supervision of the Unit staff.

Distribution of Totaquina Pills.—The Unit staff continued distributing Totaquina pills to sufferers from active malaria in all the villages they visited and also stocked some quantity with the local school masters, patels, and chairmen for emergency use. The staff of the special malaria control unit also helped in distributing these pills during their visits to villages. A total of 9,820 pills were distributed to 896 patients in all the villages of the Unit area, and out of 3,903 pills stocked 3,377 have been distributed to 616 patients, thus making a total distribution of 13,197 pills to 1,512 patients during the quarter

against 22,500 pills to 2,536 patients in the previous quarter.

Health Education.—The Unit staff gave pial talks to individual family groups on various health subjects during their visits to villages. During the quarter they gave 2,295 talks on various health subjects to about 12,000 persons.

Collection of Vital Statistics.—This activity was suspended during the quarter on account of the staff being engaged in mass vaccination work.

Baby Show and Health Exhibition.—Under the auspices of the Indian Red Cross Society, Mandya Branch, a baby show and health exhibition was organised on March 11, and 12, 1939. The Unit staff rendered co-operation in organising the health exhibition and making the show a success.

A cinema show on health subjects was arranged on March 12, by the Department of Public Health including the new film on "Tuberculosis."

Laboratory.—In the Unit laboratory six samples of urine for albumin and sugar, four sputum smears for T. B. and one spleen smear for B. P. were examined during the quarter. Eleven blood samples were sent to the Public Health Institute, Bangalore, for wassermann examination.

Consultations.—During the quarter 143 patients attended the office for consultation and they were all examined and advised regarding medical treatment.

Conference.—Five conferences of the staff were held during the quarter at which the work of the staff was discussed and instructions issued.

BUREAU OF SANITARY ENGINEERING.

N. KRISHNIENGAR, B.E.,

Sanitary Engineer.

The following is the progress secured by the Bureau of Sanitary Engineering in all its Sections in the quarter under report.

I. WATER SUPPLY.

The following water-supply works were completed during the quarter:

1. Water Supply to Jatra grounds at Yediyur,
2. Do Kengal Sri Hanumantharayaswamy Temple near Channapatna,

3. Improving water-supply to Narasimharaja Mohalla, Mysore,
4. Improving water-supply to Hassan town,
5. Water-supply to Saklespur town, and,
6. Water-supply to Kalkunike village,

The works under progress were at the following places :—

1. Improving water-supply to Kolar.
2. Do Tumkur.
3. Water-supply to Bowringpet.
4. Arkalgud.
5. Krishnarajanagar.
6. Melkote.
7. Sinking a second sunction well at Channapatna.
8. Water-supply to Belur.
9. Do Madhugiri.
10. Do Harihar.

Estimate for water-supply project for Channarayapatna was prepared and submitted.

II. DRAINAGE AND TOWN PLANNING.

(a) Mofussil Drainage.

Tumkur Drainage Works.—The construction of street drains was completed and the main drain works are in progress. The drain works in the following places were completed:

- (1) Tiptur and (2) Kankanhalli.

Works in Closepet, Channapatna, Doddballapur, Jagalur, Pavagada, Chamarajnagar, Nanjangud, Arsikere are in progress.

The construction of six units of dwelling houses for Adikarnatakas in Chitaldrug are almost completed.

Subsoil drainage work for controlling Malaria at Hiriyur is under rapid progress.

Layout of an extension for Bididi, Krishnarajnagar and Tiptur were prepared. Band stand proposed for the Park at Kolar town was also prepared.

Proposed improvements to Bangalore-Bellary Road and also Adikarnataka Colony at Devanhalli town were prepared.

Drainage schemes for Gubbi, Krishnarajnagar and Kankanhalli are under progress.

(b) Bangalore City Drainage.

During the quarter, the laying of the pipe lines in the areas where manholes had been constructed was started. The progress secured on the work are as noted below :—

			<i>Lengths of lines laid.</i>
(1) Cubbonpet and Thigalarpet areas (No. 7 Sub-main and Street sewers.)	Sub-main	12"—	633 R.ft.
	lines	9"—	1,548 „
	Street sewers	7"—	4,352 „
(2) Avenue Road portion (No. 5 Sub-main and Street sewers.)	Sub-main	12"—	150 „
	Street sewers	7"—	5,000 „
(3) Link Road Extension Street sewers.		7"—	4,863 „

The pipe laying works in all the areas of the old city sanctioned are in progress.

The comprehensive scheme for the Bangalore City Drainage was completed in all its details. Fair copies of estimates and the preparation of combined plans are being done, as office work.

III. SANITARY FITTINGS AND INSTALLATIONS.**(a) Works in Bangalore Section.**

1. Providing sanitary fittings to the Inspection Lodge at Anjanapur were completed.

2. The work of converting a portion of Examination Room of the Out-patient Dispensary into a Urinal in McGann's Hospital at Shimoga, was completed and final claims have been settled.

3. Providing additional sanitary fittings and drainage arrangements in the Administrative Block in the McGann's Hospital at Shimoga, was completed.

4. Providing sanitary fittings to the existing latrine in the compound of Deputy Commissioner's Quarters at Shimoga, was completed.

5. Providing sanitary fittings and drainage arrangements to the following Government buildings at Bangalore were completed :—

- (1) Junior Physics Laboratory of Intermediate College.
- (2) Central Block of the Central College.
- (3) New Office Club, Mysore Lancers, Mysore State Troops, Hebbal.

- (4) Forest Research Institute.
- (5) Bath Room at the building extended at Minto Ophthalmic Hospital, Bangalore.
- (6) General Maternity Hospital Building at Chikmagalur.
- (7) New Public Offices, and
- (8) Medical School, Bangalore.

(b) Works in Mysore Section.

The following sanitary installation and fittings were completed :—

- (1) Water-supply connections to the proposed Lavatory at Reserve Police Lines for being converted into Zenana Normal School, Dodpet, Mysore.
- (2) Lalitha Mahal, Mysore.
- (3) Improvements at Hostel Metropole, Mysore.
- (4) Central Police Station, Dodpet, Mysore.
- (5) Upper Primary Girls' School attached to Women's Training College, Mysore.
- (6) Latrine in Superintending Engineer's Office.
- (7) Government Silk Factory, Mysore.
- (8) Chelmsford Lodge, Karapur.
- (9) New Maternity Hospital Out-patient Dispensary, Krishnarajendra Hospital.

The following sanitary installation works are under progress :—

- (1) Railway Station Extension, Mysore.
- (2) Anatomy Block, Medical College, Mysore.
- (3) Pathology Block.
- (4) New Special Ward in Krishnarajendra Hospital.
- (5) Princess Krishnammanni Tuberculosis Sanatorium.
- (6) Indian Guest Quarters Buildings, Mysore.
- (7) New Maternity Hospital Buildings, Mysore.

IV. BORE WELLS.

Four bore wells in addition to the five that had been in progress at the end of the previous quarter were completed. All the drills were in use.

Four-hundred and seventy-nine samples of water were collected and tested for residual chlorine and 123 samples were tested bacteriologically.

V. BORE-HOLES.

The number of bore-holes drilled during the quarter was 13, including the jatra ground at Melkote.

The water supply works, the drainage works and the sanitary fittings, etc., and the expenditure thereon are described in the following statement:—

Statement showing the places where Water-Supply Works, etc., were under progress in various stages during the quarter, January-March 1939.

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
	WATER SUPPLY.	Rs.	Rs.	
1	Improving water-supply arrangement at Karapur Camp.	13,980	9,521	
2	Improvements to distribution system of Kolar Water Works.	30,000	20,668	
3	Subsidiary pumping work at Bethamangala.	20,600	4,500	
4	Extending pump house at Harihar for locating 171 for Davangere water works.	45,175	6,010	
5	Improvements of Hiriyur water works.	14,530	765	
6	Improvements of Chitaldrug water work.	16,432	328	
7	Laying 6" C. I. Main and erecting a tank at 40,000 gallons capacity for improving water-supply to Rajaput and Mahratta Block, Narasimharaja Mohalla, Mysore.	21,055	1,867	
8	Testing yield 5" dia. curb well at Chamarajnagar.	1,046	51	
9	Laying 2" sub-main in new Basa Imam Road, Lashkar Mohalla, Mysore.	489	355	
10	Laying sub-main in main road alongside 25-36 in block 2 B, Vani Vilas Mohalla, Mysore.	1,146	30	
11	Removing existing teak-wood covering planks on existing roof at filters and providing R. C. slabs.	4,835	2,075	
12	Fig cultivation at Ganjam.	13,708	3,710	
13	Providing temporary water-supply in Jatra at Talakad Panchalingadarsana.	3,840	1,634	

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
		Rs.	Rs.	
14	Improving drink water reservoir at Ganjam Gumbaz Gardens.	27,652	2,615	
15	Shifting water-supply pumps from Seringapatam to Ganjam.	27,652	53	
16	Providing water service to Coronation Building at Seringapatam.	64	28	
17	Installing new pump filters at Belagola.	19,000	87	
18	Providing water-supply to Krishnarajnagar.	26,500	4,731	
19	Shifting C. I. main ranging across Purniah's Nala, Santhepet, Mysore.	3,367	2,708	
20	Improving water-supply to Chintamani.	24,806	190	
21	Improving water-supply, Closepet.	...	532	
22	Laying new pipe in Market Road and providing two water taps for R. B. Bavan Colony, Robertsonpet.	2,470	531	
23	Mayaganahalli water-supply.	2,188	1,937	
24	Providing tap to Cheluvadikeri and Sadusettikere, Shimoga.	354	181	
25	Water-supply to Yediyur town.	1,620	376	
26	Do Saklespur town.	29,125	5,567	
27	Do Bowringpet.	11,140	1,915	
28	Do Hassan ...	1,26,210	4,126	
29	Do Shikarpur...	21,850	5,388	
30	Do Hoskote ...	17,440	2,037	
31	Improving water-supply to Malur town.	3,595	1,934	
32	Repairs and renewals of Well Boring Section.	...	3,308	
33	Water-supply to Arkalgud.	6,300	49	
34	Extending distribution sub-main, Vokkaleri water works.	2,021	1,063	

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
		Rs.	Rs.	
35	Water-supply to Whitefield Colony.	3,060	501	
36	Giving water-supply to Jatra grounds at Hemagiri.	7,007	197	
37	Giving water-supply to Mudukatore.	8,013	2,211	
38	Giving water-supply to Chunchanakatte.	7,222	1,760	
39	Giving water-supply to Bettadapura.	5,000	3,651	
40	Shifting the public fountain in T.-Narsipur Road, Mysore.	32	18	
41	Constructing a pump house at 2nd bore-well for Madhugiri town water-supply.	6,370	582	
42	Water-supply to Kengal Hanumantharayaswamy Temple near Channapatna.	1,600	175	
43	Improving Reservoir of Mandya water works.	7,000	567	
44	Constructing pump house and filters of Mandya water works.	...	1,005	
45	Water-supply to Konanur.	26,600	253	
46	Installing a stand-by pump and motor at Lalitha Gate Lodge, Mysore.	4,500	33	
47	Water-supply to Kalkunike Village.	3,600	571	
48	Distribution of water-supply to Mandya.	1,460	263	
49	Installing three galvanised tanks of 400 gallons capacity with necessary pipe connection and erecting fountain for giving water-supply to Biligiri Rangan Hills, Yelandur.	14,500	404	
50	Supplying unfiltered water from Cauvery River to Sandal Oil Factory, Mysore.	14,273	258	

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
		Rs.	Rs.	
51	Improving water-supply to Chikmagalur town.	71,381	809	
52	Improving water-supply to West Lake Building in Yelwal Road, Mysore.	286	274	
53	Installing a hand pump and an overhead tank and pipe connections from the bore-well giving water-supply to T. B., Anthar-santhe.	700	228	
54	Providing hydrants and watering the lawn in front of new Railway Office, Mysore.	1,221	105	
55	Providing water-supply to new Railway Offices.	112	489	
56	Constructing settling tank at Harihar.	45,175	9,281	
57	Providing water-supply, laying 1½" sub-main to new houses in the area adjacent to old Exhibition Building, Mysore.	2,952	224	
58	Water-supply to Melkote town.	10,000	701	
59	Purchasing and erecting a new pump at Jewell Filters, Mysore.	...	7,956	
60	Fixing meters in Mysore ...	25,000	514	
61	Giving water-supply to Harijan Colony attached to Jayanagar, Mysore.	220	118	
62	Bore-well at Alur ...	...	193	
63	Do Anekal ...	...	347	
64	Do Bettadapur ...	...	465	
65	Do Chennagiri ...	...	285	
66	Do Dodballapur ...	...	855	
67	Do Kanandur ...	...	470	
68	Do Kumsi ...	...	509	
69	Do Kakanakote ...	...	446	
70	Do Nuggehalli ...	...	472	
71	Do Oorgaum Vil-lage..	...	100	
72	Do Tubigere ...	...	286	
73	Do Haranahalli ...	...	49	

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
		Rs.	Rs.	
74	Bore-well at Belagola ...	...	153	
75	Do Arakere ...	...	13	
76	Do Hutli ...	...	153	
77	Do Kalasapur ...	...	207	
78	Do Subbiah Reddy. ...	...	81	
79	Do Hosdurga ...	...	319	
80	Water-supply to Munsiff's Court, Seringapatam.	318	194	
	ANNUAL MAINTENANCE OF WATER-SUPPLY.			
1	A. M. of Vani Vilas Water Works, Mysore.	1,55,600	77,539	
2	A. M. of Kolar Gold Field Water Works, Bethamangala	82,500	16,697	
3	A. M. of Road Watering in Mysore.	1,800	323	
4	A. M. of Chintamani ...	...	57	
5	A. M. Channapatna ...	730	1,020	
6	A. M. of Chikmagalur ...	4,806	109	
7	A. M. of Chitaldrug ...	2,807	281	
8	A. M. of Mandya ...	3,000	885	
9	A. M. of Nagamangala ...	1,200	122	
10	A. M. of Santhamarahalli...	1,233	210	
11	A. M. of Krishnarajanagar	2,493	886	
12	A. M. of French-Rocks ...	1,912	86	
13	A. M. of Seringapatam ...	3,150	85	
14	A. M. of Hoskote ...	650	75	
15	A. M. of Closepet ...	2,644	433	
16	A. M. of Kolar ...	4,156	1,063	
17	A. M. of Robertsonpet and Andersonpet.	28,700	7,380	
18	A. M. of Dodballapur ...	3,343	768	
19	A. M. of Saklespur ...	2,431	539	
20	A. M. of Konanur ...	2,813	503	
21	A. M. of Arkalgud ...	1,135	223	
22	A. M. of Kunigal ...	1,895	404	
23	A. M. of Hole-Narsipur ...	4,124	1,222	
24	A. M. of Shimoga ...	23,997	7,507	
25	A. M. of Woddarpalya. ...	1,600	141	
26	A. M. of Fig Cultivation at Ganjam.	2,644	242	
27	A. M. of Ghati Subramanyam.	730	544	

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
		Rs.	Rs.	
28	A. M. of Thornahalli Jatra.	...	16	
29	A. M. of Arsikere ...	3,610	900	
30	A. M. of Hassan ...	5,030	1,125	
	DRAINAGE.			
1	Constructing drains in Jagalur town.	13,000	1,650	
2	Constructing drains in Dodballapur.	6,250 } 12,805 }	1,221	
3	Constructing drains in Mangalvarpet, Channapatna taluk.	..	366	
4	Constructing drains in Chamarajnagar town.	10,400	6,033	
5	Constructing drains in Magadi town.	4,000	846	
6	Constructing drains in Konanur town.	1,873	338	
7	Constructing drains in Goribidnur town.	5,235	236	
8	Constructing drains in Closepet.	1,965	17	
9	Constructing drains in Kolar town.	6,722	900	
10	Constructing drains in Tumkur town.	1,54,000	22,358	
11	Constructing subsoil drains for controlling Malaria at Hiriur.	7,000	356	
12	Constructing drains in Tip-tur town.	1,914	1,173	
13	Constructing drains in Tarikere.	79,300	1,041	
14	Leading sewage from present terminal of ovoid sewer and septic tank at Sunkal Farm, and on to open flood water drain in Bangalore City.	23,500	1,812	
15	Laying sub-main sewer No. 6 between Cubbonpet and Narasimharaja Road.	70,150	804	
16	Remaining street sewers of No. 1 sub-main, Bangalore.	76,680	522	

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
		Rs.	Rs	
17	Laying street sewers No. 5 sub-main, Bangalore.	66,700	849	
18	Laying street sewer No. 6.	18,190	884	
19	Do No. 7.	93,900	3,134	
20	Laying underground sewers in conservancy lanes, Gavipur Extension.	8,550	121	
21	Laying sub-main No. 7 between Cubbonpet and Gollarpet.	93,900	888	
22	Laying street for layout of old Mental Hospital.	5,900	1,844	
23	Experimental works at Hiriyr.	100	20	
24	Laying remaining street sewers No. 2 sub-main, Bangalore.	76,680	1,377	
25	Laying sewers in Link Road, Bangalore.	14,800	4,349	
26	Laying 9" pipe sewers to lead off the effluent from the septic tank built for Railway Colony.	3,760	1,879	
BUILDINGS.				
1	Constructing office building for Superintendent, Kolar Gold Field, Bethamangala	4,120	396	
2	Constructing separate Mid-wife's quarters at Hosahalli.	...	32	
3	Constructing compound wall to Health Unit Building at Mattikere.	490	270	
4	Special repairs to Health Unit building at Mattikere, Chakkere and Bannikuppe.	3,054	70	
SURVEY CHARGES.				
1	Survey of Robertsonpet ...	...	17	
2	" Chitaldrug town.	...	91	
3	" Doddballapur ...	...	52	
4	" Bangalore drainage works.	...	502	

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
		Rs.	Rs.	
5	Survey of Hiriyuar ...	...	8	
6	" Sira ..	...	12	
7	" Nanjangud ...	...	12	
SANITARY FITTINGS.				
1	Deviating existing hot and cold water waste line for Extension at Lalithamahahal, Mysore,	830	833	Completed.
2	Providing sanitary fittings in Gate Lodge at Lalithamahahal, Mysore.	...	360	Completed.
3	Providing sanitary fittings behind bath-room at rear of Lalithamahahal, Mysore.	940	787	
4	Annual maintenance and repairs to sanitary fittings at Lalithamahahal, Mysore.	380	279	
5	Providing sanitary fittings and drains to lavatory proposed to office and Government Porcelain Factory, Bangalore.	914	706	
6	A. M. and repairs to sanitary fittings to Modern Hotel, Mysore.	48	49	
7	Providing sanitary fittings in additional bath-room opposite to one in Lalithamahahal, Mysore.	640	326	
8	Providing a new hindustani closet in place of broken ones in the Vani Vilas Ward, 1st floor, Krishnarajendra Hospital, Mysore.	...	49	
9	Providing sanitary fittings to new Railway Office, Mysore.	...	28	
10	Providing sanitary fittings and drainage to Central Block, Central College, Bangalore.	1,960	2,135	

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
		Rs.	Rs.	
11	Providing sanitary fittings and drain in bath-room in building extended in Minto Ophthalmic Hospital, Bangalore.	1,250	982	
12	Providing sanitary fittings and drain in principal lavatory room at Railway Station, Mysore.	2,700	235	
13	Providing sanitary fittings to Viceregal Lodge at Karapur.	1,350	260	
14	Providing sanitary fittings and drainage arrangement and gas connection to Forest Research Institute, Bangalore.	3,300	1,956	
15	Providing sanitary fittings to new Public Office.	2,923	2,021	
16	Providing sanitary fittings and drain for the proposed flush lavatory of Technological Institute, Bangalore.	1,580	201	
17	Providing sanitary fittings and drain in New Offices Club, Mysore Lancers, Mysore State Troops.	890	540	
18	Sanitary fittings to Inspection Lodge at Anjanapur.	1,094	895	
19	Providing sanitary fittings to new Railway Offices, B. and C. Blocks, Mysore	7,750	28	
20	Providing additional sanitary fittings and drainage arrangements in the Administrative Block, McGann Hospital, Shimoga.	509	517	
21	Improving the drainage arrangements to Lalithamahall, Mysore, during Viceregal Visit.	410	409	
22	Providing flushing arrangements to the latrine of the Superintending Engineer's Office, Mysore.	500	442	Completed.

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
		Rs.	Rs.	
23	Providing flushing arrangement to the latrine of the Krishnaraja Upper Primary School attached to Women's Training College, Mysore.	335	293	
24	Providing drainage arrangements of Junior Physics Hall, Intermediate College, Bangalore.	210	193	
25	Converting a portion of Examination room of the Out-patient Dispensary into urinal in the McGann Hospital, Shimoga.	94	94	
26	Providing sanitary fittings to the existing latrine in the compound of the Deputy Commissioner's Quarters, Shimoga.	1,100	675	
27	Providing flushing arrangements and water-supply connections to the proposed lavatory at Reserve Police Lines converted into Zanana Normal School, Mysore.	940	944	Completed.
28	Providing sanitary fittings and drainage arrangement with lavatory and gas connection in the Anatomy Block, Medical College.	...	457	
29	Providing sanitary fittings to the office block of silk filature building, Mysore.	840	824	Completed.
30	Providing sanitary fittings to the extension in the Maternity Block of McGann Hospital, Shimoga.	870	196	
31	Improvement of sanitary fittings at Hotel Metro-pole, Mysore.	480	478	Completed.

No.	Name of work	Amount of estimate	Outlay upto end of 31st March	Remarks
		Rs.	Rs.	
32	Providing sanitary installation in the Out-patient Dispensary attached to Cheluvamba Maternity.	2,040	1,156	
33	Providing additions and alterations to sanitary fittings with drainage arrangements at Medical School, Bangalore.	859	812	
34	Repairing flushing latrine fittings and repairs to drainage arrangements in Urdu Girl's School, Kalasipalyam.	43	41	
35	Providing sanitary fittings in the Central Police Station building, Dodpet, Mysore.	530	448	Completed.
36	Providing hydrants in P. K. T. Sanatorium.	...	519	
37	Providing sanitary fittings to the new special ward, Krishnarajendra Hospital, Mysore.	1,700	37	
38	Providing sanitary fittings to Chelmsford Lodge in Karapur Camp.	3,184	2,213	Completed.
39	Providing sanitary fittings to Her Highness' Bungalow at Karapur.	1,373	1,176	
40	Providing sanitary fittings to staff quarters, old pooja-room at Karapur camp.	1,664	1,547	Completed.
41	Constructing pit latrines at Karapur	3,103	3,107	
42	A. M. in Seshadri Memorial Hall.	225	57	
43	„ Kumara Park ...	432	50	
44	„ Carlton House ...	330	25	
45	„ Life Insurance Office.	180	45	
46	„ Old Public Offices.	898	182	
47	A. M. and repairs to sanitary fittings in the Institute for the Deaf and Blind Boys, Mysore.	47	47	Completed.

PART II.

BUREAU OF VITAL STATISTICS.*

(Central Statistical Office.)

E. R. SUNDARARAJAN, M.A. (Hons.),

*Superintendent and Assistant Registrar-General of
Births, Deaths and Marriages.*

(a) General.

The new system of registration and compilation of births, deaths and marriages has been extended to the following areas as per Government orders noted against each:—

			Births	Deaths	Marriages
1. No. L. 6683-84—	February 24,	Chikmagalur	...	...	×
MI. 114-38-14.	1939.	Town.			
2. No. L. 7305-6—	March 10,	Mandya Town	...	...	×
MI. 139-37-60.	1939.				
3. No. L. 9708-9—	June 6, 1939	Sagar Town	×	×	×
MI. 114-38-31.					
4. No. L. 9616-17—	June 1, 1939	Bangalore City	×	×	...
MI. 114-38-30.					

(b) Areas under the New System.

The monthly returns of births, deaths and marriages received from the villages are given below for each taluk, the returns from the municipalities being 100 per cent in each case.

*Returns received in the Quarter, January-March, 1939,
in Bangalore and Shimoga Districts.*

		No. of populated villages	Percentage of returns received		
			Birth returns	Death returns	Marriage returns
BANGALORE DISTRICT.					
Anekal	...	183	84.1	82.9	43.7
Bangalore (North)	...	181	79.2	78.5	54.5
Bangalore (South)	...	213	86.1	87.8	55.9
Channapatna	...	130	90.5	90.5	26.4
Closepet	...	118	96.9	95.8	62.4
Devanahalli	...	241	63.1	62.1	19.1
Dodballapur	...	271	81.2	78.8	45.6
Hoskote	...	317	65.6	66.2	19.2
Kankanhalli	...	234	92.5	92.9	47.0
Magadi	...	299	82.3	80.8	59.4
Nelamangala	...	285	82.9	82.8	50.9
Total	...	2,472	83.7	80.1	43.2

* Office of the Registrar-General of Births, Deaths and Marriages in Mysore, Bangalore.

		No. of populated villages	Percentage of returns received		
			Birth returns	Death returns	Marriage returns
SHIMOGA DISTRICT.					
Channagiri	...	186	86.2	84.2	68.1
Honnali	...	145	90.3	90.1	89.0
Kumsi	...	66	84.9	85.9	87.4
Nagar	...	199	94.5	92.8	89.1
Shikarpur	...	136	91.2	90.7	90.7
Sagar	...	252	96.3	95.7	91.8
Shimoga	...	231	64.5	63.3	34.6
Sorab	...	255	88.0	89.0	92.4
Tirthahalli	...	243	84.0	83.8	82.0
Total	...	1,713	86.4	85.8	79.4

It will be seen that birth and death returns are being received, on the average, from over 85 per cent of the villages but that in the case of marriages it is still below 50 per cent in Bangalore District.

Detailed statistics for each taluk and division (in the case of cities) are given in Tables 1 to 6. Tables 7 and 8 give the statistics of the previous quarter for all the districts including the areas under the new system.

Births, Still-births and Infant Mortality.

In the quarter under report, 11,108 live-births were reported as shown in the following statement. The computed birth-rate was 22.5 per mille of population, as compared with 26.0 in the previous quarter.

Area	Population as on July 1, 1939	Births			
		Born alive	Born Dead	Plural Births	Birth Rate
1	2	3	4	5	6
Bangalore District ...	1,008,449	3,741	90	15	14.8
Municipalities ...	79,675	476	7	5	23.9
Rural Area ...	928,774	3,265	83	10	14.1
Shimoga District ...	542,996	3,312	109	20	21.4
Municipalities ...	67,398	641	37	8	38.0
Rural Area ...	475,598	2,671	72	12	22.5
Cities ...	427,029	4,055	169	44	38.0
Bangalore City ...	217,490	1,780	93	21	32.7
Mysore City ...	126,597	1,331	38	15	42.1
Kolar Gold Field	82,942	944	38	8	45.5
Total ...	1,978,474	11,108	868	79	22.5

Area	Infants		Maternal Mortality			Deaths All causes	
	Infant Deaths	Infant Mortality Rate	No. of Parturi- tion cases	Mater- nal Deaths	Maternal Mortality Rate	Deaths	Death Rate
7	8	9	10	11	12	13	14
Bangalore District ...	305	81.5	3,816	32	8.4	2,887	11.4
Municipalities ...	27	56.7	478	4	8.3	222	11.1
Rural Area ...	278	85.1	3,338	28	8.4	2,665	11.5
Shimoga District ...	343	103.6	3,401	110	32.1	3,197	23.6
Municipalities ...	66	103.0	570	11	16.2	399	23.7
Rural Area ...	277	103.7	2,731	99	36.1	2,798	23.5
Cities ...	735	181.3	4,180	11	2.6	2,820	26.4
Bangalore City...	335	188.2	1,852	7	3.7	1,337	24.6
Mysore City ...	203	152.5	1,351	4	2.9	879	27.8
Kolar Gold Field	197	208.7	974	...	0.0	604	29.1
Total ...	1,383	124.5	11,397	153	13.3	8,904	18.0

During the quarter 79 sets of plural births were recorded, all of them being pairs of twins.

The number of still-births registered during the quarter was 368, or 3.3 per cent of live-births, as compared with 3.9 in the preceding quarter.

The number of parturition cases accounted for by the registered births was 11,397, among whom 153 died of child-birth. The maternal mortality rate was 13.3 per 1,000 births against 13.7 in the previous quarter. The variations in the rates between those for cities and those for rural areas are probably due to variations in the definition of maternal deaths. It has been circularised that hereafter all deaths of mothers at or during 30 days of labour be treated as maternal deaths. It is hoped that under this uniform definition it will be possible to have reliable rates of maternal mortality.

Deaths.

During the quarter 8,904 deaths were reported giving a death-rate of 18.0 per mille of population as against 17.9 in the previous quarter. As noted in the preceding quarterly report the death-rates for Bangalore District are very much lower than those of the Shimoga District. The distribution of the deaths under the list of causes is given below.

Area and Cause of Death

	Bangalore District		Shimoga District	
	Urban	Rural	Urban	Rural
1	2	3	4	5
Estimated population as on July 1, 1939 ...	79,675	928,774	67,398	475,598
Deaths—All causes ...	222	2,665	399	2,798
Plague ...	3	74	...	4
Small-pox ...	...	16	5	8
Cholera ...	...	26	...	31
Malaria ...	7	918	32	1,100
Typhoid ...	3	201	17	329
Other Fevers ...	52	322	126	437
Dysentery and Diarrhoea ...	13	132	17	119
Respiratory Diseases ...	15	116	50	256
Consumption ...	14	179	15	55
Leprosy ...	1	17	...	13
Child-birth ...	4	28	11	99
Suicide ...	1	7	2	2
Drowning ...	2	29	...	14
Wounds and Accidents ...	7	30	7	14
Killed by Wild Beasts ...	...	...	...	1
Snake-bite ...	...	5	1	2
Rabies ...	...	4	1	...
All Other Causes ...	100	561	115	314

	Bangalore	Mysore	K. G. F.	Total
	City	City	City	
6	7	8	9	
Estimated population as on July 1, 1939 ...	217,490	126,597	82,942	1,978,474
Deaths—All causes ...	1,337	879	604	8,904
Plague ...	5	1	3	90
Small-pox ...	...	...	12	41
Cholera ...	...	...	...	57
Malaria ...	2	23	8	2,030
Typhoid ...	18	17	6	591
Other Fevers ...	117	80	80	1,214
Dysentery and Diarrhoea ...	148	69	84	582
Respiratory Diseases ...	95	83	77	692
Consumption ...	92	56	14	425
Leprosy ...	6	1	2	40
Child-birth ...	7	4	...	153
Suicide ...	1	1	1	15
Drowning ...	2	...	8	55
Wounds and Accidents ...	30	9	5	102
Killed by Wild Beasts ...	...	...	...	1
Snake-bite ...	...	...	...	8
Rabies ...	4	3	1	13
All Other Causes ...	810	532	303	2,735

Marriages.

The total number of marriages reported during the quarter was 592 for a population of 18,95,532 as shown in the following statement. In addition to the fact that marriages are not yet being completely reported, this small number indicates that very few marriages are being celebrated in the first quarter of the year.

Area	Estimated Popula- tion as on July 1, 1939	Number of Marriages reported			
		January	February	March	Total
BANGALORE DISTRICT.					
Municipalities ...	79,675	3	30	3	36
Rural Area ...	928,774	11	107	66	184
SHIMOGA DISTRICT.					
Municipalities ...	67,398	15	30	13	58
Rural Area ...	475,598	46	114	71	231
CITIES.					
Bangalore City ...	217,490	11	26	...	37
Mysore City ...	126,597	9	32	5	46
Total ...	1,895,532	95	339	158	592

(c) Areas under the old system.

(Statistics for Quarter, October-December, 1938.)

In the quarter (October-December, 1938) 37,798 live-births, 27,981 deaths, 4,421 infant-deaths under one year of age and 857 still-births were registered. The figures given below include those of the area under the new system.

	Oct.-Dec. 1938.	July-Sept. 1938.	Oct.-Dec. 1937.
Live-births ...	37,798	37,922	38,935
Still-births ...	857	790	677
Infant-deaths (under one year)...	4,421	4,377	4,943
Deaths (excluding still-births and including infant-deaths) ...	27,981	25,761	29,311
Plague ...	1,521	1,605	2,126
Small-pox ...	168	232	183
Cholera ...	288	180	165
Malaria ..	8,997	7,476	9,645
Typhoid ...	1,550	1,296	1,518
Other Fevers ...	3,700	3,525	3,280
Dysentery and Diarrhoea ...	1,923	2,232	1,826
Respiratory Diseases ...	1,130	871	1,296
Consumption ...	1,322	1,210	1,393
Leprosy ...	221	217	268
Child-birth ...	592	577	636
Suicide ...	72	64	53
Drowning ...	229	226	239
Wounds and Accidents ...	210	165	177
Killed by Wild Beasts ...	10	12	17
Snake-bite ...	50	35	44
Rabies ...	13	13	31
All Other Causes ...	5,985	5,825	6,414

Births, Still-births, Infant deaths.

During the quarter 37,798 live-births were reported, giving a birth-rate of 22.1 as compared with 22.2 in the previous quarter. The birth-rate was highest (24.2) in the Shimoga District and lowest (16.5) in Kadur District. The rates in cities were: Bangalore City 37.1, Mysore City 47.0 and Kolar Gold Field 47.3.

The number of still-births registered was 857, it being 2.3 per cent of the total live-births reported as against 2.1 per cent in the preceding quarter. The highest percentage was 4.2 in Shimoga District and the lowest was 0.8 in Mysore District. The percentages in the cities were: Bangalore City 6.4, Mysore City 3.5 and Kolar Gold Field 4.3.

During the quarter 4,421 infants under one year of age died, giving an infant mortality rate of 117.0 per 1,000 live-births. This rate was highest (141.6) in Shimoga District and lowest (82.5) in Bangalore District. The City rates were: Bangalore City 182.9, Mysore City 123.9 and Kolar Gold Field 160.7.

Deaths.

The total number of deaths reported during the quarter was 27,981, giving a death-rate of 16.4 per mille of population. The death-rate was highest (21.2) in Shimoga District and lowest (12.2) in Bangalore District. In Bangalore City the death-rate was 27.8, in Mysore City 28.3 and in Kolar Gold Field it was 26.2.

(d) Epidemic Diseases.

Plague.—The incidence of plague was very low, the reported number of attacks and deaths being 224 and 121, respectively, in 71 places as compared with 663 attacks and 394 deaths in 110 places in the previous quarter. Shimoga and Tumkur Districts were entirely free. Bangalore City had five attacks with five deaths and Mysore City one attack with one death.

Small-pox.—Very few cases of small-pox were reported during the quarter, *viz.*, 209 attacks with 34 deaths in 21 places. The incidence was more or less the same as in the previous quarter.

Cholera.—No case of cholera was reported during the quarter.

Attacks and Deaths from Plague, Small-pox and Cholera in the Districts and Cities during the quarter, January-March 1939.

District or City	Plague				Small-pox				Cholera			
	Attacks	Deaths	Number of Places affected	Population affected	Attacks	Deaths	Number of Places affected	Population affected	Attacks	Deaths	Number of Places affected	Population affected
Bangalore District (Excluding City).	7	6	1	1,230	...	...	...	...	...	...	...	...
Chitaldrug	12	2	1	585	31	8	3	450	...	...	...	...
Hassan	50	36	20	31,459	51	9	8	3,145	...	...	...	...
Kadur	20	9	6	28,780	...	...	...	...	...	...	...	...
Kolar District (Excluding K. G. F.)	120	58	37	22,866	...	...	...	...	...	...	...	...
Mysore District (Excluding City)	9	4	4	4,448	12	2	5	4,348	...	...	...	...
Shimoga	...	...	...	...	41	4	4	7,441	...	...	...	...
Tumkur	...	...	...	...	...	...	...	...	...	...	...	...
Mysore State (Excluding Cities)	218	115	69	89,368	135	23	20	15,384	...	...	...	...
Bangalore City	5	5	1	217,490	...	...	...	...	...	...	...	...
Mysore City	1	1	1	126,597	...	...	...	...	...	...	...	...
Kolar Gold Field	...	...	...	...	74	11	1	82,942	...	...	...	...
Mysore State (Including Cities)...	224	121	71	433,455	209	34	21	98,326	...	...	...	...

(e) Parturition Cases.

Particulars of 3,270 labour cases conducted in the 32 maternity hospitals and female dispensaries in the State are given in the following statement. Of these, 209 were abortions or miscarriages and 46 mothers died giving a maternal mortality of 14·7 per 1,000 births as compared with 15·6 in the previous quarter. Of the infants born 2,864 were live-births and 258 were still-births, and 39 pairs of twins were recorded.

Parturition Cases Conducted in Maternity Hospitals and Female Dispensaries.

No.	Place	Institution	Total Number of Labour cases conducted	Abortions or miscarriages	Number of Maternal Deaths	Number of births recorded		
						Live-births	Still-births	Number of pairs of twins
1	Bangalore City	Vani Vilas Hospital	1,116	10	9	1,049	82	15
2	Mysore City	Do	602	46	4	526	30	6
3	Do	Holdsworth Memorial Hospital	189	20	4	159	11	2
4	Kolar Gold Field	Maternity Hospital	351	36	6	296	24	5
5	Anekal	Female Dispensary	2	1	1	...	...	...
6	Channapatna	Do	42	2	...	38	2	...
7	Chikballapur	Do	...	...	...	...	...	...
8	Chikmagalur	Maternity Hospital	77	9	3	59	11	2
9	Chintamani	Female Dispensary	21	1	1	18	2	...
10	Chitaldrug	Do	40	2	...	37	1	...
11	Davangere	Maternity Hospital and Female Disp.	168	10	1	137	23	2
12	Dodballapur	Female Dispensary and Maternity Hospital.	61	7	...	47	4	...
13	Hassan	Female Dispensary and Maternity Hosp.	23	5	...	13	5	...
14	Do	R. F. Memorial Hospital	41	1	2	37	3	...
15	Hebbal	Female Dispensary	9	...	...	8	1	...
16	Hole-Narsipur	S. N. Maternity Hospital	58	5	...	48	7	2
17	Hunsur	Female Dispensary	17	...	...	16	1	...
18	Kolar	Do	33	2	...	30	1	...
19	Do	E. T. C. Memorial Hospital	...	Report	not	received.	...	...
20	Koppa	Female Dispensary	6	4	1	4	2	...
21	Krishnarajnagar	Female Dispensary and Maternity Hosp.	44	...	1	38	6	...
22	Mudgere	Combined Dispensary	...	...	...	...	...	...
23	Mandagadde	Maternity Hospital	...	Report	not	received.	...	...
24	Nanjangud	Female Dispensary	64	4	1	60	4	...
25	Sagar	Do	4	2	...	1	1	...
26	Saklespur	Women and Children Hospital	8	2	...	6	2	...
27	Shimoga	Maternity Hospital	76	15	7	50	15	2
28	Sira	Female Dispensary	8	1	1	6	1	...
29	Tarikere	Do	83	6	2	77	6	1
30	Tiptur	Maternity Hospital	33	6	...	27	4	1
31	Tirthahalli	Do	24	5	2	18	5	...
32	Tumkur	Do	70	7	...	59	4	1
Total (Mysore State)			3,270	209	46	2,864	258	39

TABLE 1.

Detailed Statistics of births collected under the New System in the Division of the cities of Bangalore and Mysore in the quarter, January to March 1939.

Cities	Births			Permanent residence of mother	Community of mother													
	Born alive				Born dead	At village	Outside	Tadgalet	Vokkaligar	Vaisya	Kshatriya	Brahmin	Adikarnataka	Mussalman	Jain	Christian	European	Others
	Total																	
	M	F																
BANGALORE CITY.																		
I Division	46	33	79	...	79	...	...	9	...	7	6	18	16	...	2	...	21	
II "	30	26	56	1	55	...	...	2	11	11	6	5	1	...	...	...	28	
III "	66	38	104	3	103	...	3	7	11	4	3	14	10	...	5	...	46	
IV "	34	28	62	3	65	...	2	3	6	1	6	1	8	...	1	...	37	
V "	17	22	39	2	40	...	...	1	3	1	...	...	18	...	...	...	17	
VI "	53	34	87	6	89	3	1	8	6	3	10	16	27	1	2	...	18	
VII "	25	47	72	2	74	...	5	3	2	2	21	17	3	...	...	...	21	
VIII "	42	42	84	2	84	...	3	10	...	3	28	5	4	1	2	...	17	
IX "	51	46	97	...	97	...	1	6	1	3	3	7	7	...	4	...	44	
Vani Vilas Hospital	542	499	1,041	73	1,098	4	36	80	33	66	196	37	117	3	66	...	468	
Maternity Hospital	29	30	59	2	58	3	4	2	1	8	22	9	...	...	...	...	15	
Total	935	845	1,780	93	1,842	10	55	131	65	109	338	124	211	5	82	...	732	
MYSORE CITY.																		
Mohallas. —																		
Lashkar	92	91	183	2	179	2	5	8	8	5	7	12	65	...	6	...	65	
Mandi	92	78	170	2	165	4	2	5	2	4	2	11	71	1	2	...	69	
Devaraj	14	16	29	...	29	...	2	1	3	2	10	...	3	1	...	...	7	
Chamaraj	60	59	119	2	111	7	...	26	...	2	32	23	6	...	...	...	29	
Krishnaraj	41	35	76	...	76	...	3	2	...	...	26	2	16	1	...	...	26	
Fort	7	7	14	...	14	...	4	...	...	1	8	...	...	...	...	...	1	
Nazabad	30	24	54	...	54	...	...	19	...	2	...	1	3	...	...	...	25	
Vani Vilas Hospital	282	231	513	24	513	21	35	52	17	24	120	28	62	...	20	...	181	
Palace Dispensary	3	3	6	...	6	...	1	...	...	2	1	...	1	1	...	...	...
Sawar and Barr Lines.	5	3	8	1	8	1	...	...	...	2	...	...	4	...	1	...	2	
Holdsworth Memorial Hospital.	83	76	159	7	161	3	2	13	5	8	15	9	35	1	19	2	55	
Total	709	622	1,331	38	1,316	38	54	126	35	52	221	81	266	5	52	2	460	

TABLE I—*concl.*

Detailed Statistics of births collected under the New System in the Division of the cities of Bangalore and Mysore in the quarter January to March 1939.

Cities	Age of Mother							Order of birth																
	Below 15	15-20	20-25	25-30	30-35	35-40	40-45	45 and over	Total (all ages)	Order of birth														
										1	2	3	4	5	6	7	8	9	10	Over 10	Not stated			
BANGALORE CITY.	...	15	21	22	15	6	79	14	15	15	15	13	5	1	4	4	4	2	2	...	2	...
I Division	...	10	14	13	10	6	55	11	8	15	16	5	5	2	4	4	4	2	2	...	3	...
II "	...	20	24	26	26	7	...	...	103	19	15	15	12	19	11	7	9	4	2	...	...	1	...
III "	...	10	16	21	8	8	...	...	65	8	10	10	6	10	6	6	5	5	5	...	...	...	...
IV "	...	7	8	11	10	3	...	...	40	9	13	13	17	14	2	2	2	2	...	1	...	...	...
V "	...	15	27	28	17	3	...	...	92	17	18	9	15	6	12	6	4	...	6	1	...	...	...
VI "	...	16	31	11	10	4	...	...	74	18	15	15	15	7	11	7	3	1	1	2	...	...	...
VII "	...	11	34	17	9	10	...	...	84	12	13	13	21	6	13	10	3	5	2	1	...	...	...
VIII "	...	22	28	25	13	6	...	...	97	22	13	13	21	6	13	10	3	5	2	1	...	...	...
IX "	...	259	338	288	134	52	13	2	81,102	280	206	166	121	99	58	60	40	24	18	35	...	...	...
Vani Vilas Hospital.	8	11	19	12	14	5	...	...	61	8	12	13	13	2	5	5	1	4	2	2	...	2	...
Maternity Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	8	396	560	474	266	110	28	2	81,852	418	321	303	211	182	107	106	75	54	25	50	...	...	...
MYSORE CITY.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mohallas.—	...	36	76	37	23	2	5	...	181	23	39	37	26	15	16	9	6	4	2	4	...	...	...
Lashkar	2	40	54	39	25	5	4	...	169	33	33	23	21	22	10	8	6	9	3	1	...	...	...
Mandi	1	4	6	5	9	3	...	1	29	5	2	7	2	...	3	1	1	1	1	1	...	...	...
Devaraja	...	27	37	23	22	9	...	...	118	27	10	17	16	13	11	9	7	5	2	2	...	...	...
Chamaraja	...	12	35	18	7	2	1	...	76	11	7	10	15	7	3	6	2	2	1	1	...	...	...
Krishnaraja	...	5	5	1	3	...	...	...	14	5	1	2	3	1	...	1	...	...	...	...	...	...	...
Fort	...	13	20	10	10	...	...	...	45	15	12	3	5	6	9	2	...	...	...	...	...	...	...
Nazabad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vani Vilas Hospital...	1	136	197	137	41	21	1	...	534	150	90	103	56	34	27	27	19	19	4	...	...	...	...
Palace Dispensary	...	...	2	2	...	2	...	...	6	...	1	2	2	...	1	...	...	...	...	...	...	...	...
Sawar and Barr Lines	...	1	3	3	1	...	...	1	9	...	1	2	...	...	2	1	...	...	...	...	...	...	...
Holdsworth Memorial Hospital.	...	52	45	37	17	8	3	2	164	44	37	25	16	...	8	5	...	...	...	...	...	...	...
Total	6	326	481	312	158	53	14	4	1,354	315	243	231	162	106	89	69	54	50	16	19	...	...	...

TABLE 1 (a)—*concl'd.*

Name of District	Age of Mother										Order of birth											
	Below 15	15-20	20-25	25-30	30-35	35-40	40-45	45 and over	Not stated	Total (all ages)	1	2	3	4	5	6	7	8	9	10	Over 10	Not stated
Andersonpet ...	...	18	49	24	10	7	...	...	...	108	22	22	20	7	16	4	8	4	1	3	1	...
Robertsonpet ...	...	17	25	20	8	2	2	...	...	74	14	14	9	9	10	7	5	1	1	1	3	...
Champion Reefs	1	14	23	29	19	8	2	...	...	96	14	17	18	12	7	9	7	7	1	1	3	...
Nandidrug Mines	...	20	26	30	18	12	1	...	...	107	19	26	12	14	16	8	4	1	2	1	4	...
Oorgaum do ...	1	14	39	19	16	14	...	1	...	104	17	25	18	8	9	7	7	2	8	...	3	...
Mysore do ...	2	35	43	43	22	14	3	2	...	164	28	39	24	18	16	12	10	7	2	3	5	...
Nandidrug Mines	...	2	2	4	...	2	...	...	...	10	1	2	2	1	2	1	1	...	...	...	...	...
Maternity Hospital.	...	24	126	102	46	9	1	...	...	308	78	70	35	37	31	15	12	10	10	7	3	...
K. G. F. Hospl.	...	...	1	...	1	1	...	...	...	3	1	1	1	...	...	...	...	...	...	...	...	...
K. G. F. Electrical Department.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
E. D. Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Civil Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	4	144	334	271	140	69	9	3	...	974	194	216	139	106	107	63	54	32	25	16	22	...

TABLE 2.
Detailed Statistics of deaths collected under the New System in each Division of cities of Bangalore and Mysore
in the quarter January to March 1939.

	Deaths		Permanent residence	Conjugal condition at time of death				Community								Others							
	M F			Total	At Village	Outside	Single	Married	Widowed	Divorced	Not stated	Lingayat	Vokkaligar	Vaisya	Kshatriya		Brahmin	Adikarnataka.	Musallman	Jain	Christian	European	
	M	F																					
BANGALORE CITY.																							
I Division	51	29	80	80	...	42	31	7	...	77	1	6	10	2	12	19	15	...	3	...	22		
II do	75	75	150	150	...	40	28	5	...	69	2	...	11	9	8	8	6	...	2	...	103		
III do	114	98	212	211	...	64	53	26	...	...	5	...	11	14	10	10	38	...	11	...	105
IV do	62	65	127	127	...	59	35	33	...	...	2	...	10	4	14	...	6	...	1	...	86
V do	24	21	45	45	...	28	28	7	...	...	...	...	3	...	...	...	14	...	...	...	26
VI do	55	53	108	104	...	58	26	22	...	...	2	...	1	...	10	11	19	...	...	...	43
VII do	40	56	96	96	...	39	33	20	...	...	2	...	...	4	25	6	10	...	...	...	34
VIII do	25	31	56	56	...	29	25	1	...	...	1	...	...	...	27	...	3	...	...	...	18
IX do	38	43	81	81	...	44	27	8	...	...	2	...	...	...	19	11	5	...	...	...	31
Vani Vilas Hospital	68	65	133	133	...	108	15	...	...	10	3	...	7	5	26	9	7	...	...	...	61
Victoria Hospital	107	98	205	145	...	7	20	1	...	117	1	...	1	...	...	...	14	...	...	...	117
E. D. Hospital	33	28	61	60	...	5	28	19	...	9	1	...	...	...	...	...	10	...	...	...	43
Maternity Home	1	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Martha's Hospital	19	113	32	32	...	8	...	2	...	13	...	...	...	...	...	...	...	...	...	...	...
Mental Hospital	9	1	10	9	...	5	4	...	...	1	...	...	1	...	2	...	1	...	...	...	1
Total	721	616	1,337	1,330	7	537	843	152	...	305	19	57	45	48	155	75	148	11	63	9	707		
MYSORE CITY.																							
Lashkar Mohalla	77	81	158	158	...	75	50	32	...	1	5	6	6	5	7	19	72	...	6	...	32		
Mandy do	85	89	174	173	...	66	78	23	...	7	1	5	...	2	1	16	77	...	2	...	70		
Devaraj do	26	22	48	46	...	18	16	13	...	1	2	3	7	1	9	...	7	...	...	...	19
Chamaraj do	49	42	91	91	...	43	32	16	...	...	...	19	...	3	18	25	2	...	...	...	23
Krishnaraj Mohalla	45	49	94	94	...	41	42	11	...	...	...	5	1	7	25	2	8	...	...	...	42
Fort do	13	12	25	25	...	10	4	9	...	...	3	2	...	2	13	...	...	...	...	...	5
Nazarbad do	22	24	46	46	...	20	12	13	...	...	1	2	...	6	2	2	5	...	...	...	20
Vani Vilas Hospital	16	21	37	37	...	26	4	...	...	1	6	2	...	1	9	2	2	...	...	...	12
Krishnarajendra Hospl.	101	41	142	140	...	50	88	2	...	2	...	10	...	...	...	...	21	...	...	...	114
Epidemic Diseases "	10	2	12	12	...	3	4	1	...	4	1	...	...	...	...	...	1	...	...	...	7
P. K. T. Sanatorium	3	4	7	7	...	3	2	...	...	...	...	...	...	...	...	...	2	...	...	...	8
Sawar and Barr. Disy.	1	2	3	3	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Holdsworth's Memorial Hospital.	10	28	38	35	...	13	17	2	...	6	1	...	3	...	4	1	6	...	9	...	10		
Sacred Heart Dispensary	1	3	4	4	...	...	3	...	...	1	1	...	...	...	2	...	...	...	...	...	1
Total	459	420	879	871	8	869	353	123	...	34	25	57	17	29	92	67	204	...	28	2	358		

TABLE 2--*contd.*

	Age at death										Total all ages				
	Under 1 week	1 week to 1 month	1 month to 6 months	6 months to 1 year	Total under one year of age	1-5 years	5-10	10-15	15-20	20-30		30-40	40-50	50-60	60 and over
BANGALORE CITY.															
I Division	5	3	4	9	20	19	2	4	2	5	2	1	8	21	80
II do	9	6	15	16	46	28	6	1	6	11	9	5	5	30	150
III do	15	7	16	15	53	53	12	2	6	11	12	15	11	35	212
IV do	4	6	7	7	24	25	7	2	1	4	6	9	13	26	127
V do	3	2	7	3	15	9	...	...	1	5	3	...	3	9	45
VI do	3	5	4	10	22	19	7	3	3	10	6	12	5	21	108
VII do	2	1	4	3	10	15	6	3	5	5	8	3	6	35	96
VIII do	4	4	1	4	13	9	2	3	1	5	1	2	5	15	56
IX do	6	6	8	4	24	12	4	...	3	8	8	2	6	14	81
Vani Vilas Hospital	63	16	17	9	105	10	7	2	1	4	32	...	...	1	133
Victoria Hospital	...	...	...	1	1	8	9	8	14	22	20	23	18	10	145
E. D. Hospital	...	...	...	...	...	...	...	2	2	18	...	6	3	10	61
Maternity Home	1	...	...	...	1	...	...	2	7	4	4	3	2	...	1
St. Martha's Hospital	...	...	...	1	1	...	...	...	...	...	...	...	...	9	32
Mental Hospital	...	...	...	...	...	...	...	...	...	3	...	2	...	5	10
Total	115	56	83	81	335	207	62	80	52	115	114	83	85	254	1,337
MYSORE CITY.															
Lashkar Mohalla	14	4	17	12	47	20	5	2	9	11	5	5	8	46	158
Mandy do	8	7	6	16	37	14	10	8	3	20	15	15	11	41	174
Devaraj do	1	...	5	2	8	5	2	2	1	5	2	6	2	15	48
Chamaraj do	5	3	7	6	21	13	3	4	8	9	4	6	4	24	91
Krishnaraj do	...	1	7	5	13	16	6	1	4	11	6	9	1	27	94
Fort do	...	...	2	3	5	5	...	1	1	1	...	...	1	11	25
Nazarabad	2	1	5	3	11	6	1	1	2	3	5	...	3	14	46
Vani Vilas Hospital	28	4	...	...	32	...	...	1	...	2	...	1	...	1	37
Krishnarajendra Hospital	2	3	...	6	11	14	11	3	9	11	24	23	17	19	142
Epidemic Hospital	...	...	...	...	...	...	...	3	...	2	3	1	1	2	12
P. K. T. Sanatorium	...	...	...	...	...	...	...	4	...	1	2	...	...	...	7
Sawar and Barr. Lines	...	...	1	...	1	...	...	...	...	...	...	...	1	1	3
Holdsworth's Memorial Hospital.	8	1	4	3	16	3	1	...	4	5	4	4	...	1	38
Sacred Hearts Dispensary.	...	...	...	1	1	...	...	...	2	...	1	...	...	...	4
Total	68	24	54	57	203	96	39	30	38	81	71	70	49	202	879

TABLE 2—*concl'd.*

	Causes of death												All other causes										
	Plague	Small-pox	Cholera	Malaria	Typhoid	Other Fevers	Dysentery and Diarrhoea	Respiratory diseases	Consumption	Leprosy	Child-birth	Suicide		Drowning	Wounds & accidents	Killed by wild beasts	Snake-bite	Rabies					
BANGALORE CITY.																							
I Division	10	11	1	5	..	..	..	..	..	..	..	..	53					
II do	13	20	6	17	..	..	..	..	..	..	..	..	89					
III do	14	36	7	18	..	..	..	..	..	..	..	..	136					
IV do	1	1	11	15	11	..	..	..	..	..	..	..	..	..	86			
V do	2	2	6	4	2	..	..	..	..	..	..	..	..	31				
VI do	1	19	17	7	8	..	..	..	..	..	..	..	..	55				
VII do	1	..	6	5	8	4	..	..	..	..	..	..	..	..	69			
VIII do	10	2	6	7	1	..	..	..	..	..	..	..	27					
IX do	8	10	10	1	..	..	..	..	..	..	..	..	46					
Vani Vilas Hospital	2	4	7	7	3	..	..	..	..	..	..	..	..	106				
Victoria Hospital	10	14	9	23	5	..	..	..	..	..	..	..	..	67				
E. D. Hospital	5	..	..	..	1	..	3	3	21	5	..	..	..	..	..	..	..	22
Maternity Home	1					
St. Martha's Hospital	1	6	5	2	..	..	..	..	..	..	..	..	..	15				
Mental Hospital	2	..	..	..	..	..	..	..	..	..	..	7					
Total	5	..	..	2	18	117	148	95	92	6	7	1	2	80	..	..	4	810	
MYSORE CITY.																							
Lashkar Mohalla	3	1	5	11	11	7	..	..	..	..	..	..	..	..	118			
Mandy do	7	..	20	11	12	14	1	..	..	..	..	..	..	..	106			
Devaraj do	1	3	8	3	5	4	..	..	..	..	..	..	..	..	23			
Chamaraj do	2	2	4	9	6	5	..	..	..	..	..	..	..	..	62			
Krishnaraj Mohalla	1	..	9	12	8	11	..	..	..	..	..	..	..	..	53			
Fort do	1	1	2	2	1	..	..	..	..	..	..	..	..	..	18			
Nazarbad do	4	..	3	10	5	4	..	..	..	..	..	..	..	..	20			
Vani Vilas Hospital	1	..	1	..	..	..	..	..	..	..	..	..	..	33				
Krishnarajendra Hospital	4	7	25	7	27	..	..	2	..	..	..	..	..	..	67			
Epidemic Disease Hospital	1	..	..	..	..	1	3	1	3	..	..	..	..	5	..	..	..	3
P. K. T. Sanatorium	7	..	..	..	..	..	..	..	..	..
Sowar and Barr Disp.	1	..	..	..	..	..	..	..	..	..	..	..	1					
Holdsworth's Memorial Hospital	1	2	1	4	1	..	..	..	..	..	..	..	..	26				
Sacred Hearts Dispensary	1	..	..	1	..	..	..	..	..	..	..	..	..	2				
Total	1	..	..	23	17	80	69	83	56	1	4	1	..	9	..	..	3	532	

Table 2 (a).
Detailed Statistics of Deaths collected under the New System in each Division of Kolar Gold Fields in the quarter January to March 1939.

Name of District	Serial No.		Sex	Permanent residence		Conjugal Condition at time of death				Community													
	M	F		Total	At villages	Outside	Single	Married	Widowed	Divorced	Not stated	Lingayet	Vokkaligay	Vaisya	Kshatriya	Brahmin	Adikarnataka	Musalman	Jain	Christian	European	Others	
KOLAR GOLD FIELDS.																							
Robertsonpet	43	33	76	76	...	58	19	4	...	...	1	...	...	1	3	1	28	7	...	...	8	...	27
Andersonpet	32	30	62	62	...	28	14	3	...	17	...	...	...	...	...	...	32	4	...	...	12	...	14
Mysore Mines, K. G. F.	46	37	83	82	1	51	22	10	...	...	...	...	...	...	...	1	58	...	...	...	18	...	6
Champion Reefs	46	36	82	82	...	27	24	5	...	26	...	...	...	...	1	...	50	7	...	...	15	...	9
Oorgaum Mines	38	41	79	79	...	51	21	6	...	1	...	...	...	...	...	...	61	...	...	...	8	...	10
Nandidrug Mines	18	15	33	35	...	20	8	4	...	1	...	...	...	...	...	...	25	2	...	...	2	...	4
Nandidrug Mines Balghat Section.	13	15	28	28	...	14	7	7	...	...	...	...	...	...	...	...	17	1	...	...	6	...	4
Electric Colony	2	1	3	3	...	3	..	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2
E. D. Hospital, K. G. F....	14	13	27	27	...	18	9	...	...	...	...	...	...	...	...	...	2	7	...	...	1	...	17
Maternity Hospital	29	16	45	45	...	26	5	...	...	14	...	...	...	...	...	3	18	4	...	...	5	...	15
Civil Hospital	28	15	43	43	...	19	22	...	...	2	...	...	...	...	...	...	...	3	...	...	9	...	31
Mining Hospital	32	...	32	30	2	7	21	...	...	4	...	1	...	1	...	...	15	1	...	...	3	1	10
Chief Inspector of Mines, K. G. F.	11	...	11	11	...	8	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	2	9
Total	352	252	604	601	3	325	172	39	...	68	1	1	1	1	5	5	306	36	...	...	88	3	158

TABLE 2 (a)—*contd.*

Name of District	Age at death										Total of all ages				
	Under 1 week	1 week to 1 month	1 month to 6 months	6 months to 1 year	Total under all ages	1-5 years	5-10	10-15	15-20	20-30		30-40	40-50	50-60	60 and over
KOLAR GOLD FIELD.															
Robertsonpet ...	13	1	13	7	34	15	...	...	2	2	3	5	5	10	76
Andersonpet ...	12	3	6	6	27	12	1	1	...	3	2	4	4	8	62
Mysore Mines ...	4	5	8	6	23	21	1	1	1	3	9	2	6	16	88
Champion Reefs ...	7	4	7	5	23	25	2	1	...	3	4	5	5	14	82
Oorgaum Mines ...	5	6	8	4	23	26	2	...	1	2	7	3	6	9	79
Nandidrug Mines ...	1	1	5	3	10	6	1	1	1	2	3	1	6	2	33
Nandidrug Mines Balghat Section.	1	3	2	1	7	7	...	...	1	1	1	2	1	8	28
Electric Colony ...	1	...	...	...	1	...	1	...	1	...	...	...	...	...	8
E. D. Hospital, K. G. F. ...	...	2	...	1	3	7	3	1	2	3	2	2	2	2	27
Maternity Hospital ...	39	1	...	...	40	...	...	...	1	2	1	1	...	...	45
Civil Hospital ...	...	...	2	4	6	5	3	...	5	9	9	4	1	1	43
Mining Hospital ...	...	...	...	...	...	1	1	...	3	9	5	7	3	3	32
Chief Inspector of Mines, K. G. F.	...	...	...	...	...	...	...	...	8	3	...	...	...	...	11
Total ...	83	26	51	37	197	125	15	5	26	42	46	86	39	73	604

TABLE 2 (a)—*concl.*

Name of District	Causes of death											Total						
	Plague	Small-pox	Cholera	Malaria	Typhoid	Other Fevers	Dysentery and Diarrhoea	Respiratory Diseases	Consump- tion	Leprosy	Child-birth		Suicide	Drowning	Wounds and accidents	Killed by wild beasts	Snake-bite	Rabies	All other causes
KOLAR GOLD FIELD.																		
Robertsonpet	2	11	7	...	...	...	...	...	...	...	...	...	56
Anderscnpet	1	5	9	13	...	...	...	1	...	...	...	...	...	33
Mysore Mines	1	1	16	10	7	2	...	...	...	...	...	...	...	...	46
Champion Reefs	2	...	13	10	11	2	...	...	...	...	...	...	...	...	44
Oorgaum Mines	1	2	18	21	11	4	...	...	...	...	...	...	...	...	22
Nandidrug Mines	2	...	5	10	4	...	...	...	...	...	...	...	...	...	12
Nandidrug Mines Balghat Section	3	6	4	...	...	...	...	...	...	...	...	...	15
Electric Colony	1	...	...	1	...	...	...	...	...	...	...	1
E. D. Hospital, K. G. F.	3	12	...	1	...	...	2	1	1	...	...	...	...	...	...	...	...	7
Maternity Hospital	3	...	...	...	...	...	...	...	...	...	42
Civil Hospital	15	2	11	...	...	...	...	...	2	...	...	...	13
Mining Hospital	1	2	3	2	5	5	1	...	...	...	1	...	...	...	12
Chief Inspector of Mines, K. G. F.	8	2	...	...	1	...
Total	3	12	...	8	6	80	84	77	14	2	...	1	8	5	...	...	1	303

TABLE 3.—Detailed Statistics of Births collected under the new system in the Municipalities of Bangalore and Shimoga Districts in the quarter January to March 1939.

Name of District	Births			Permanent residence		Community										
	Born alive		Total	At village	Outside	Lingayet	Vokkaligar	Vaisya	Kshatriya	Brahmin	Adikarnataka	Musalman	Jain	Christian	European	Others
	M.	F.														
BANGALORE DISTRICT.																
Anekal	27	10	37	37	...	1	6	1	3	3	1	8	...	1	...	18
Channarayana	35	41	76	76	...	3	2	1	1	13	...	41	...	...	...	11
Closepet	40	26	66	65	...	...	2	...	...	8	6	27	...	2	...	17
Devanahalli	11	7	18	18	...	2	2	...	...	4	2	3	...	...	...	5
Dodballapur	49	39	88	92	2	3	2	4	...	19	1	14	...	1	...	48
Hoskote	23	18	41	38	1	...	...	...	2	1	1	8	...	...	...	28
Kankanhalli	11	9	20	19	1	...	1	1	1	2	...	3	...	...	...	11
Magadi	19	10	29	29	10	1	1	4	2	4	1	10	...	...	...	7
Nelamangala	10	6	16	17	...	3	3	1	1	2	...	5	...	...	...	5
Sarjapur	7	9	16	15	...	1	...	...	...	1	...	2	...	...	...	5
Tyanganondlu	21	19	40	34	1	2	2	7	1	2	5	9	...	...	...	11
Vadigenahalli	8	6	14	11	3	...	1	3	...	2	...	3	...	...	...	5
Yelahanka	11	4	15	15	...	...	...	1	...	...	2	5	...	...	...	7
Total	272	204	476	470	8	16	21	23	15	61	22	138	...	4	...	178
SHIMOGA DISTRICT.																
Bhadravati	42	41	83	87	1	3	...	...	1	3	...	16	...	9	...	56
Channarayana	25	25	50	52	...	3	...	1	8	2	2	26	...	...	...	10
Honnali	25	22	47	47	1	4	...	...	1	6	...	7	...	...	...	28
Kumsi	5	11	16	15	1	3	...	...	1	2	...	4	...	...	...	6
Hosanagar	6	8	14	14	...	...	...	...	3	2	...	1	...	1	...	7
Nyamathi	19	21	40	39	...	22	...	...	...	...	...	5	...	...	...	12
Sagar	33	22	55	57	...	...	...	...	...	...	...	11	...	1	...	43
Shikarpur	16	18	34	36	...	5	1	...	1	4	3	10	...	...	...	12
Shimoga	113	109	222	187	41	20	8	10	13	54	10	44	...	15	...	54
Shiralkoppa	14	15	29	33	...	4	...	2	1	2	...	11	...	...	...	13
Sorab	12	4	16	16	...	3	...	...	1	1	1	...	...	...	...	10
Tirthahalli	17	23	40	43	...	...	5	2	1	15	3	5	...	2	...	10
Total	327	314	641	626	44	67	14	15	31	95	19	140	...	28	...	261

TABLE 3—*concl.*

	Age of mother										Total of all ages	Order of birth										
	Below 15	15-20	20-25	25-30	30-35	35-40	40-45	45 and over	Not stated	1		2	3	4	5	6	7	8	9	10	Over 10	Not stated
BANGALORE DISTRICT.																						
Anekal	...	5	9	8	8	3	4	...	...	37	9	1	4	6	6	2	3	3	2	...	...
Channarayana	...	8	16	27	12	6	1	...	...	76	14	8	9	9	8	7	5	2	4	3	...
Closetpet	...	21	13	7	18	4	1	...	...	65	16	7	4	9	1	11	6	4	2	3	...
Devanahalli	...	3	8	6	...	...	1	...	...	18	3	1	4	9	1	...	...	...	...	...	...
Dodballapur	...	20	29	25	13	...	...	...	...	94	22	14	8	12	2	...	10	3	1	2	...
Hoskote	...	9	11	9	5	3	1	...	...	39	10	6	6	4	2	5	3	2	...	...	...
Kankanhalli	...	5	8	4	1	1	1	...	...	20	5	5	5	2	1	1	3	...	...	...	...
Magadi	...	5	7	7	7	2	1	...	...	29	5	3	5	1	1	4	3	...	...	...	...
Nelamangala	...	5	1	9	1	1	...	...	...	17	2	4	1	2	1	4	...	...	...	...	...
Sarjapur	...	2	4	3	5	1	...	...	...	15	1	3	8	1	2	2	...	...	...	...	...
Tyagaraj	...	3	11	12	8	4	1	...	...	39	2	4	6	8	3	6	2	...	...	...	...
Vadigenahalli	...	5	2	1	4	2	...	...	...	14	5	2	2	...	2	1	...	...	...	...	...
Yelahanka	...	2	7	3	2	...	1	...	...	15	3	3	...	...	1	...	...	...	...	...	7
Total	3	93	126	121	84	34	12	...	5	478	97	61	53	61	40	50	34	22	25	10	13	12
SHIMOGA DISTRICT.																						
Bhadravati	...	13	28	27	14	2	2	2	...	88	20	17	12	10	9	10	3	2	1	2	...	
Channarayana	...	14	23	10	3	2	...	...	...	52	14	9	8	5	7	3	1	1	1	3	...
Honnali	...	10	17	7	4	8	2	...	...	48	12	10	3	3	4	6	4	1	1	4	...
Kunsi	...	6	2	2	3	1	2	...	...	16	5	2	1	2	1	2	...	1	...	...	...
Hosangar	7	6	...	...	...	...	...	14	2	2	2	4	...	...	...	...	...	...	...
Nyamathi	...	8	9	10	4	7	...	...	...	39	7	7	10	3	2	...	...	3	3	...	...
Sagar	...	17	19	11	8	...	2	...	...	67	16	4	4	4	2	7	4	...	...	...	...
Shikarapur	...	6	9	16	1	4	...	...	...	36	7	4	4	10	5	4	...	2	2	...	...
Shimoga	...	63	58	50	35	13	7	...	...	228	59	32	34	26	23	13	17	7	8	3	...
Shirakoppa	...	7	8	9	5	2	2	...	...	83	5	2	10	5	3	1	2	2	1	1	...
Sorab	...	2	6	6	2	...	...	...	...	16	3	4	1	2	1	4	...	1	...	...	...
Tirthahalli	...	9	10	11	4	8	...	...	...	43	11	6	2	8	7	3	1	...	...	...	...
Total	3	155	196	165	83	48	18	2	...	670	161	99	99	79	64	56	34	24	20	13	15	6

TABLE 4.
Detailed Statistics of Deaths collected under the New System in the Municipalities of Bangalore and Shimoga
Districts the quarter (ending) January to March 1939.

Name of District	Deaths		Permanent residence		Conjugal condition at time of death				Community													
	M	F	Total	At village	Outside	Single	Married	Widowed	Divorced	Not stated	Lingayet	Vokkaligar	Vaisya	Kshatriya	Brahmin	Adikarna-taka	Mussalman	Jain	Christian	European	Others	
BANGALORE DISTRICT.																						
Anekal	11	14	25	25	...	4	20	1	...	2	...	...	1	3	4	1	...	...	...	...	...	14
Channarayana	27	18	45	45	...	14	26	5	...	...	...	...	2	1	6	5	18	...	...	...	...	11
Closepet	11	2	13	13	...	3	10	...	...	...	...	...	...	1	...	...	7	...	...	...	...	8
Devanahalli	5	2	7	7	...	1	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Dodballapur	7	10	17	17	...	3	14	...	...	...	...	...	...	1	1	...	...	...	...	...	...	6
Hoskote	10	4	14	14	...	4	8	2	...	...	...	...	3	4	...	...	...	...	...	...	...	7
Kankanhalli	8	7	15	15	...	5	8	2	...	...	...	...	...	1	...	...	...	...	...	...	...	6
Magadi	7	9	16	16	...	6	7	3	...	...	...	...	...	1	2	...	...	...	...	...	...	8
Nelamangala	8	3	11	11	...	4	7	...	...	...	...	...	...	...	...	...	...	...	2	...	...	7
Sarjapur	7	8	15	15	...	8	5	2	...	...	...	...	1	...	1	...	...	...	...	...	...	3
Tyamaragondlu	6	10	16	16	...	4	8	4	...	...	...	...	1	1	...	...	...	...	...	...	...	6
Vadigenahalli	7	7	14	14	...	...	14	...	...	...	...	...	1	...	...	...	...	...	...	...	...	11
Yelahanka	9	5	14	14	...	6	5	3	...	...	...	...	...	...	...	...	...	...	...	...	...	12
Total	123	99	222	222	...	62	138	22	...	17	8	10	12	21	13	46	2	1	1	...	91	
SHIMOGA DISTRICT.																						
Bhadrapati	26	31	57	57	...	32	32	3	...	3	...	...	...	2	1	3	6	...	...	2	3	37
Channarayana	8	10	18	18	...	6	8	4	...	3	...	...	1	...	...	...	...	...	...	...	...	7
Honnali	15	10	25	25	...	13	6	6	...	1	...	...	...	...	...	...	...	...	...	...	...	16
Kumsi	14	14	28	28	...	7	13	8	...	2	...	...	...	...	...	...	...	...	...	...	...	19
Hosanagar	3	4	7	7	...	5	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	4
Nyamathi	11	9	20	20	...	9	6	5	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Sagar	24	12	36	36	...	13	22	1	...	...	...	...	...	...	...	...	...	...	...	...	...	29
Shikarpur	13	13	26	26	...	6	13	7	...	...	...	...	...	2	2	...	...	...	...	...	...	9
Shimoga	74	51	125	118	...	71	37	17	...	...	...	...	4	9	19	6	29	...	...	...	...	46
Shiralkorpa	10	6	16	16	...	7	6	3	...	...	...	...	1	...	...	...	...	...	...	...	...	4
Sorab	14	5	19	19	...	7	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
Tirthahalli	13	9	22	22	...	10	5	6	...	...	...	...	...	1	...	...	...	...	...	...	...	3
Total	225	174	399	392	7	186	152	60	...	31	3	7	16	36	18	83	...	9	3	...	193	

TABLE 4--contd.

Name of District	Age at death										Total (all ages)				
	Under 1 week	1 week to 1 month	1 month to 6 months	6 months to 1 year	Total under 1 year of age	1-5 years	5-10	10-15	15-20	20-30		30-40	40-50	50-60	60 and over	Not stated
BANGALORE DISTRICT.															
Anekal	...	...	...	2	2	...	...	...	2	3	2	2	3	10	...
Channarayana	1	1	3	2	7	6	1	1	...	...	7	4	4	13	...
Closepet	...	1	...	1	2	1	...	...	...	...	...	4	1	4	...
Devanahalli	...	1	...	...	...	...	...	1	2	...	...	...	...	5	...
Dodballapur	...	...	...	1	...	3	1	1	1	2	...	1	3	2	...
Hoskote	...	...	...	...	1	2	1	1	1	2	...	1	2	5	...
Kankanhalli	...	2	1	...	4	1	...	1	...	4	1	1	1	3	...
Magadi	1	...	1	...	1	...	1	2	...	1	...	1	2	3	...
Nelamangala	...	...	1	...	3	1	2	2	...	2	...	1	...	4	...
Sarjapur	2	1	...	...	2	...	...	...	...	2	4	1	1	6	...
Tyamaragondlu	2	...	...	...	2	...	...	...	...	2	2	1	2	8	...
Vadigenahalli	...	...	...	2	3	3	...	...	...	...	1	1	...	5	...
Yelahanka	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	7	6	6	8	27	18	7	8	6	21	23	21	19	72	222
SHINOGA DISTRICT.															
Bhadravati	1	1	5	3	9	15	2	1	3	8	10	2	3	4	57
Channarayana	...	...	1	2	8	1	...	...	1	3	...	4	3	8	18
Honnali	3	...	...	...	3	3	2	2	...	4	...	3	1	8	25
Kumsi	2	...	...	1	1	1	3	...	...	...	6	7	1	7	28
Hosangar	...	...	...	...	1	5	1	...	...	...	...	...	2	...	7
Nyamathi	...	...	...	...	...	2	1	1	...	2	5	...	2	4	20
Sagar	2	...	...	3	5	2	...	1	4	4	7	4	5	4	36
Shikarpur	4	...	...	1	5	1	...	1	...	3	2	6	...	8	26
Shinoga	12	2	4	14	32	19	3	1	5	14	12	9	10	20	125
Shiralkoppa	1	...	...	1	2	1	...	1	4	2	...	...	2	4	16
Sorab	...	...	...	...	...	...	...	...	1	1	1	...	...	14	19
Tirthahalli	3	1	...	...	4	4	...	1	1	2	1	3	...	4	22
Total	27	4	10	25	66	53	11	9	19	46	44	40	31	80	899

TABLE 4—concl'd.

Name of District	Causes of death																Total		
	Plague	Small-pox	Cholera	Malaria	Typhoid	Other Fevers	Dysentery and Diarrhoea	Respiratory diseases	Consumption	Leprosy	Child-birth	Suicide	Drowning	Wounds and accidents	Killed by wild beasts	Snake-bite		Rabies	All other causes
BANGALORE DISTRICT.																			
Anekal	3	...	9	6	1	2	...	2	...	...	1	...	...	...	...	12
Channarayana	8	...	5	2	...	...	...	...	1	...	...	...	...	21
Closetpet	6	...	1	2	...	...	...	...	1	...	...	...	...	3
Devanahalli	3	...	...	2	1	...	...	...	2	...	...	...	...	3
Dodballapur	2	...	1	...	2	1	...	...	...	...	1	...	...	...	...	9
Hoskote	6	...	2	...	...	2	...	...	1	...	...	...	...	2
Kankanhalli	4	...	2	...	...	...	...	...	1	...	...	...	...	3
Magadi	1	...	1	3	...	...	2	...	...	1	...	...	...	...	9
Nelamangala	3	...	...	...	...	...	...	...	...	...	2
Sarjapur	4	...	...	...	...	...	...	...	...	...	...	...	...	3
Tyaganondlu	1	2	2	...	...	2	...	...	1	...	...	...	...	...	...	8
Vadigenahalli	4	1	1	1	...	...	...	...	...	...	...	...	...	7
Yelahanka	1	...	4	2	...	1	...	...	...	...	1	...	...	...	...	5
Total	3	...	...	7	8	52	13	15	14	1	4	1	2	7	...	...	...	100	...
SHIMOGA DISTRICT.																			
Bhadraavati	1	...	35	3	8	2	...	2	...	...	...	...	...	...	...	6
Channarayana	3	...	2	...	...	1	...	1	...	...	1	...	...	...	...	11
Honnali	2	1	10	1	2	1	...	...	...	...	...	...	1	...	...	6
Kumsi	5	1	10	1	8	2	...	...	...	...	...	...	...	...	...	1
Hosanagar	...	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Nyamathi	8	...	...	...	...	1	...	...	2	...	...	...	...	8
Sagar	2	11	6	1	2	2	...	...	1	...	1	...	...	...	...	10
Shikarpur	1	3	...	8	1	...	1	...	...	1	...	...	...	...	15
Shimoga	...	1	...	8	2	23	10	22	2	...	5	...	...	1	...	...	...	...	61
Shirakoppa	13	...	...	1	...	...	...	...	...	...	...	...	...	2
Sorab	11	...	5	...	...	...	...	...	...	...	1	...	...	...	...	2
Tirthahalli	11	1	5	3	...	1	...	...	...	...	...	...	...	1
Total	...	5	...	32	17	126	17	50	15	...	11	2	...	7	...	1	1	115	...

TABLE 5.
Detailed Statistics of Births collected under the new system in the Taluks of Bangalore and Shimoga Districts in the quarter January to March 1939.

Name of District	Births		Born dead	Permanent residence of Mother		Community of mother											
	Born alive			At Village	Outside	Lingayet	Vokkaligar	Vaisya	Kshatriya	Brahmin	Adikarnataka	Musalman	Jain	Christian	European	Others	
	M	F															Total
BANGALORE DISTRICT																	
Anekal	112	97	209	5	177	37	7	26	...	2	4	43	9	...	...	...	125
Bangalore (North)	121	100	221	2	192	31	10	59	...	...	1	46	4	...	...	...	94
Bangalore (South)	183	136	269	4	210	62	5	54	...	...	5	39	10	...	7	...	151
Channarayana	191	210	401	12	312	100	9	220	...	11	2	53	8	...	...	...	99
Closepet	172	157	329	13	206	135	18	156	...	4	6	42	20	...	...	...	94
Devanahalli	81	79	160	5	129	36	2	76	...	...	3	28	...	...	...	...	57
Dodballapur	146	154	300	11	249	59	21	90	...	...	9	45	...	...	1	...	133
Hoskote	95	111	206	8	185	29	10	44	...	...	9	32	15	...	...	...	103
Kankanhalli	238	243	481	9	336	153	27	197	...	1	8	67	17	...	3	...	167
Magadi	178	149	327	8	243	90	40	124	...	1	10	42	16	...	...	...	97
Nelamangala	177	185	362	6	311	56	52	144	...	...	6	51	31	...	...	...	110
Total	1,644	1,621	3,255	83	2,550	788	201	1,170	6	19	62	488	139	5	18	...	1,230
SHIMOGA DISTRICT																	
Channagiri	265	246	513	7	457	60	218	...	1	1	9	38	38	...	...	...	212
Honnali	277	258	535	5	469	69	196	1	...	3	2	35	22	...	...	...	276
Kumsi	54	44	98	2	92	8	22	...	...	...	5	11	20	...	...	...	42
Hosnagar	59	71	130	13	180	13	16	...	...	...	11	9	2	...	3	...	701
Sagar	121	120	241	10	212	37	5	15	...	2	59	14	9	...	2	...	134
Shikarpur	142	139	281	7	259	28	83	2	...	...	1	18	17	...	...	...	166
Shimoga	137	144	281	4	263	20	80	4	...	...	7	32	30	...	...	...	129
Sorab	202	169	371	16	326	60	63	13	...	...	22	38	14	...	1	...	929
Tirthahalli	114	107	221	8	187	41	1	18	...	...	34	15	2	...	3	...	155
Total	1,371	1,300	2,671	72	2,895	336	687	53	4	6	150	210	154	14	9	...	1,444

TABLE 5—concl'd.

Name of District	Age of mother							Order of birth														
	Below 15	15-20	20-25	25-30	30-35	35-40	40-45	45 and over	Not stated	Total	1	2	3	4	5	6	7	8	9	10	Over 10	Not stated
BANGALORE DISTRICT.																						
Anekal	...	30	55	61	26	30	10	2	...	214	38	44	34	30	20	23	10	10	2	2	1	...
Bangalore (North)	...	29	64	63	34	22	7	1	...	223	35	41	47	34	18	23	13	7	3	...	...	1
Bangalore (South)	...	39	86	57	42	31	14	2	...	272	49	61	39	26	29	24	16	15	15	...	...	1
Chennapatna	4	66	109	123	70	26	11	2	...	412	84	81	79	55	47	32	17	5	2	...	...	1
Closetpet	...	52	85	105	57	30	7	1	...	341	65	58	61	58	42	29	12	8	3	4	...	...
Devanahalli	...	18	53	85	25	18	10	4	...	165	30	36	19	21	20	16	6	3	5	...	...	...
Dodballapur	...	55	66	87	59	28	6	...	...	308	68	57	59	41	24	24	15	7	4	...	...	...
Hoskote	...	19	57	59	48	24	8	...	...	214	36	41	37	30	22	23	11	3	2	...	...	...
Kankanhalli	...	5	84	137	85	32	14	1	...	489	113	96	81	68	46	36	13	14	10	...	...	...
Magadi	...	2	100	92	70	18	6	1	...	333	63	69	61	51	28	26	14	10	5	...	...	...
Nelamangala	...	2	99	97	61	26	5	5	...	367	73	70	52	58	44	23	15	13	8	...	...	...
Total	14	507	898	916	577	285	93	21	27	3,388	654	654	569	472	340	279	142	96	50	27	34	22
SHIMOGA DISTRICT.																						
Channagiri	...	8	80	162	121	99	37	12	2	517	111	102	82	79	57	27	20	17	7	5	6	4
Honnali	...	3	68	147	155	105	41	11	4	538	87	105	84	79	54	44	27	17	11	8	8	14
Kumsi	15	34	29	10	12	...	...	100	22	23	16	4	14	6	6	4	3	...	...	...
Hosnagar	...	1	22	98	54	17	10	...	...	143	36	32	21	24	8	10	9	5	1	...	...	...
Sagar	...	1	46	70	83	30	15	4	...	249	46	60	47	37	23	19	10	7	...	...	...	...
Shikarpur	...	1	49	70	75	51	28	5	1	287	65	57	42	54	24	17	6	8	5	...	...	...
Shimoga	...	5	55	91	65	38	21	5	...	283	75	59	44	41	26	16	6	12	3	...	...	...
Sorab	...	2	51	119	109	69	26	10	...	386	88	67	88	51	33	23	5	2	5	...	...	...
Tirthahalli	...	1	32	72	59	37	22	1	8	228	58	56	33	83	15	21	7	2	1	...	...	...
Total	17	418	803	750	456	212	49	7	19	2,731	588	561	457	402	254	183	96	77	34	18	22	89

TABLE 6.
Detailed Statistics of Deaths collected under the new system in the Taluks of Bangalore and Shimoga Districts in the quarter January to March 1939.

Name of District	Deaths		Permanent residence of the deceased		Conjugal condition at time of death				Community												
	M	F	Total	At village	Outside	Single	Married	Widowed	Divorced	Lingayet	Vokkaligar	Vaiya	Kshatriya	Brahmin	Adikarna-taka	Mussalman	Jain	Christian	European	Others	
BANGALORE DISTRICT.																					
Anekal	95	105	200	184	16	60	119	14	7	9	16	1	...	3	32	9	...	...	1	...	129
Bangalore (North)	95	77	172	164	8	41	110	14	7	5	47	...	...	1	39	13	...	...	3	...	64
Bangalore (South)	132	103	235	212	23	64	144	15	12	7	39	...	...	2	42	7	...	...	5	...	132
Chennapatna	138	128	266	255	11	84	171	6	5	3	143	1	8	4	30	8	...	...	...	...	69
Closetpet	106	111	217	181	36	78	133	3	3	23	96	...	...	3	22	10	...	...	...	...	63
Devanahalli	80	81	161	151	10	42	106	8	5	2	65	...	...	1	28	2	...	...	1	...	62
Dodballapur	153	139	292	278	14	82	189	11	10	26	86	...	...	2	53	8	...	...	...	...	116
Hoskote	93	99	192	184	8	68	110	11	3	11	35	...	...	4	32	11	...	...	1	...	98
Kankanhalli	199	151	350	316	34	105	226	10	9	26	147	2	3	3	44	12	1	1	...	...	111
Magadi	157	138	295	235	60	91	174	15	15	32	104	1	...	9	34	20	4	...	...	...	81
Nelamangala	153	132	285	266	19	86	181	11	7	25	97	...	...	5	50	13	1	...	...	...	94
Total	1401	1264	2665	2426	239	801	1663	118	83	169	875	5	13	37	406	113	6	12	...	...	1029
SHIMOGA DISTRICT.																					
Channagiri	179	179	358	357	1	134	199	22	1	130	2	...	...	3	27	35	...	...	...	...	161
Honnali	178	154	332	332	...	131	179	15	...	114	2	7	...	1	29	22	...	...	...	...	160
Kumsi	66	49	115	114	1	36	57	20	...	26	1	...	...	1	13	20	3	...	...	...	51
Nagar	124	105	229	224	5	76	138	16	...	21	1	...	...	15	18	2	1	2	...	...	166
Sagar	162	144	306	273	33	82	208	14	...	11	17	...	...	37	26	10	24	1	...	...	178
Shikarpur	172	137	309	308	1	90	189	23	...	109	2	...	...	...	14	22	...	...	...	...	162
Shimoga	173	128	301	293	8	110	171	9	...	87	1	...	...	1	36	42	...	...	...	...	133
Sorab	295	264	559	559	...	185	322	33	...	80	12	...	...	18	54	18	...	...	...	...	377
Tirthahalli	156	133	289	285	4	91	179	17	...	4	19	4	...	32	12	5	...	...	1	...	212
Total	1505	1293	2798	2745	53	935	1637	169	1	682	57	5	7	108	129	176	30	4	...	...	1500

TABLE 6—*contd.*

Name of District	Age at death														Total of all ages	
	Under 1 week	1 week to 1 month	1 month to 6 months	6 months to 1 year	Total under 1 year of age	1-5 years	5-10	10-15	15-20	20-30	30-40	40-50	50-60	60 and over		Not stated
BANGALORE DISTRICT.																
Anekal	8	2	5	7	22	11	13	11	5	20	23	24	15	56	...	200
Bangalore (North)	10	3	3	...	16	14	2	3	5	16	21	21	10	61	3	172
Bangalore (South)	9	6	7	4	26	18	10	5	9	16	19	14	34	81	3	235
Chennapatna	13	4	6	6	29	24	9	7	7	22	25	27	24	86	6	266
Closetpet	20	11	5	3	39	22	5	5	5	20	21	28	23	48	1	217
Devanahalli	5	3	2	2	12	16	7	1	6	15	19	12	13	60	...	161
Dodballapur	7	4	3	7	21	31	11	5	9	22	33	41	21	98	...	292
Hoskote	5	1	9	6	21	14	12	5	7	17	13	11	18	74	...	192
Kankanhalli	9	7	8	3	27	33	16	12	13	32	29	39	38	110	1	350
Magadi	6	8	9	6	29	30	11	11	6	24	26	31	27	97	3	295
Nelamangala	9	6	12	9	36	23	6	6	9	24	22	30	22	109	1	285
Total	101	55	69	53	278	236	102	71	78	228	251	278	245	880	18	2665
SHIMOGA DISTRICT.																
Channagiri	6	8	15	13	42	45	11	16	7	39	46	35	33	83	1	358
Honnali	4	2	14	12	32	47	10	8	9	35	46	51	31	64	9	332
Kumsi	8	3	3	...	14	2	1	3	2	21	15	15	18	23	1	115
Nagar	10	4	3	5	22	4	7	8	11	38	42	37	22	36	2	229
Sagar	13	2	8	4	27	9	8	7	21	46	53	46	50	49	...	306
Shikarpur	11	8	5	5	23	15	11	14	13	30	51	52	42	52	...	309
Shimoga	12	5	7	8	32	26	15	14	13	31	42	47	25	52	4	301
Sorab	26	9	6	11	52	44	20	20	17	95	79	78	66	84	4	559
Tirthahalli	12	6	6	3	27	15	8	6	14	55	45	42	30	43	4	289
Total	102	47	67	61	277	207	91	96	107	390	419	393	307	486	25	2798

TABLE 6—*concl'd.*

Name of District	Causes of death													Snake-bite	Rabies	All other causes		
	Plague	Smallpox	Cholera	Malaria	Typhoid	Other Fevers	Dysentery and Diarrhoea	Respiratory diseases	Consumption	Leprosy	Child-birth	Suicide	Drowning				Wounds and accidents	Killed by wild beasts
BANGALORE DISTRICT.																		
Anekal	31	...	2	47	15	26	3	7	15	...	2	1	3	2	...	2	...	47
Bangalore (North)	3	...	...	67	12	16	10	11	12	...	2	1	...	...	...	...	1	33
Bangalore (South)	1	1	...	67	11	62	6	17	13	...	2	1	...	1	...	...	1	48
Chennapatna	1	11	...	88	20	17	21	19	13	1	2	1	...	2	...	...	...	69
Closetpet	...	...	5	71	17	28	16	6	10	...	2	1	...	6	...	...	1	53
Devanahalli	4	...	3	45	6	19	...	9	13	3	2	...	...	...	...	2	1	41
Dodballapur	1	3	6	105	25	46	23	6	20	...	2	...	...	...	...	...	...	50
Hoskote	27	1	1	52	18	22	...	7	10	3	2	1	...	1	...	1	...	46
Kankanhalli	...	...	1	183	27	22	22	6	16	5	7	3	...	3	...	...	...	55
Magadi	...	...	5	91	27	30	18	16	27	2	7	...	6	4	...	...	...	62
Nelamangala	6	...	3	92	23	34	13	12	20	2	3	...	2	8	...	...	...	57
Total	74	16	26	918	201	322	132	116	179	17	28	7	29	30	...	5	4	561
SHIMOGA DISTRICT.																		
Channagiri	...	4	3	160	31	63	13	31	3	...	10	...	3	4	...	...	...	33
Honnali	...	2	8	121	25	42	13	60	7	...	6	1	1	3	...	...	...	43
Kumsi	...	...	...	33	12	7	3	17	2	1	4	...	1	2	...	...	...	33
Nagar	1	...	3	112	39	20	9	13	5	...	6	...	...	1	...	1	...	19
Sagar	...	...	...	153	32	31	21	20	7	...	16	1	...	2	...	...	...	21
Shikarpur	...	...	3	153	41	56	13	23	6	...	8	...	1	...	...	...	...	31
Shimoga	3	...	3	93	40	35	11	48	7	...	...	...	...	...	1	1	...	47
Sorab	...	1	6	180	70	147	22	38	13	2	20	...	3	1	...	...	...	57
Tirthahalli	...	1	7	125	39	36	14	6	5	1	21	...	3	1	...	...	...	30
Total	4	8	31	1100	329	437	119	256	55	13	99	2	14	14	1	2	...	314

TABLE 8.

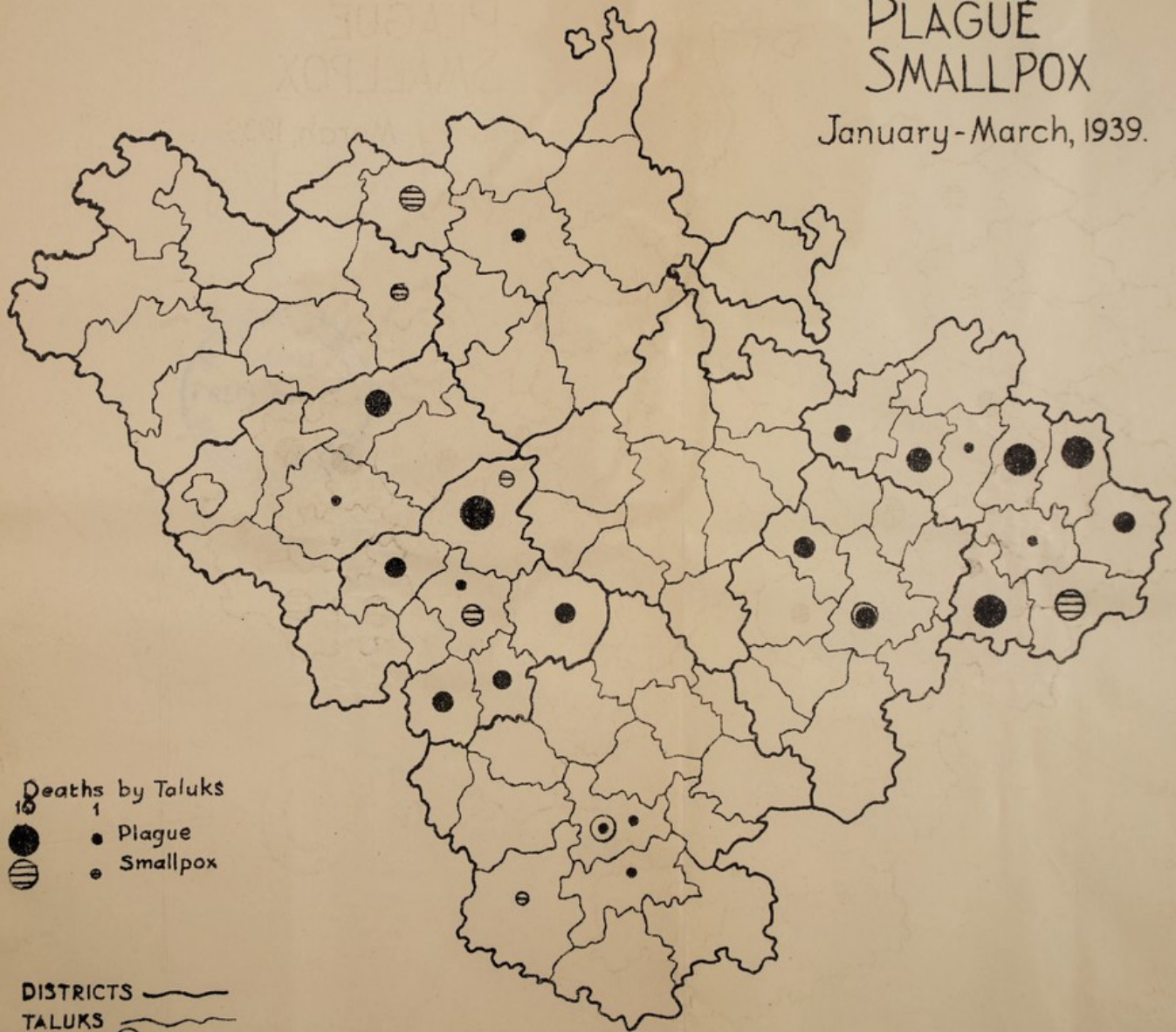
Reported deaths in the Districts and Cities of the Mysore State in the quarter October-December 1938, classified according to the Chief Causes of Death.

District	Plague	Small-pox	Cholera	Malaria	Typhoid	Other Fevers	Dysentery and Diarrhoea.	Respiratory Diseases.	Consumption	Leprosy	Child birth	Suicide	Drowning	Wounds and accidents	Killed by wild Beasts	Snake-bite	Rabies	Total Deaths		
																		All other Causes	October-December 1938.	July-September 1938.
Bangalore District (Excluding City).	186	11	28	808	144	361	209	114	231	19	45	10	48	34	1	6	...	794	3,049	3,064
Chitaldrug District ...	...	36	19	889	152	367	158	101	70	27	40	5	18	21	...	5	1	489	2,398	2,321
Hassan do ...	163	10	141	1,149	94	509	159	69	91	31	56	6	14	18	1	6	3	375	2,895	2,826
Kadur do ...	118	...	8	816	123	218	81	75	24	12	70	4	9	17	...	1	1	190	1,757	1,551
Kolar do ...	184	8	16	1,115	156	434	142	98	184	31	57	11	43	13	...	7	2	657	3,158	2,950
(Excluding K.G.F.).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mysore District ...	804	74	26	1,932	365	579	376	251	241	40	102	20	36	32	2	9	5	679	5,573	4,779
(Excluding City).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shimoga District ...	20	17	33	1,053	215	407	196	185	66	24	112	6	12	21	3	8	1	482	2,861	2,523
Tumkur District ...	11	11	17	1,184	229	460	315	140	273	36	85	5	41	27	3	8	...	534	3,379	2,585
Mysore State (Excluding Cities).	1,486	167	258	8,946	1,478	3,335	1,636	1,033	1,180	220	567	67	221	183	10	50	13	4,200	25,080	22,599
Bangalore City ...	6	...	...	10	34	171	151	44	75	1	7	2	4	5	...	...	...	965	1,475	1,624
Mysore City ...	29	...	...	33	33	89	79	20	59	...	15	1	...	6	...	...	...	516	880	888
Kolar Gold Field ...	...	1	...	8	5	105	57	33	8	...	3	2	4	16	...	...	...	304	546	650
Mysore State (Including Cities).	1,521	168	288	8,997	1,550	3,700	1,923	1,180	1,322	221	592	72	229	210	10	50	13	5,985	27,981	25,761

MYSORE STATE

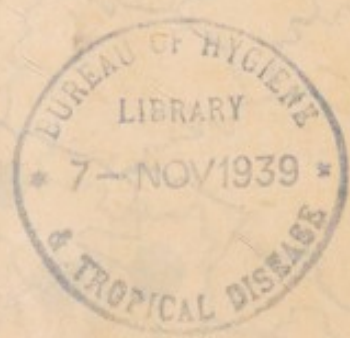
PLAGUE SMALLPOX

January - March, 1939.



WY20RE 2


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SMALLPOX



General by Table
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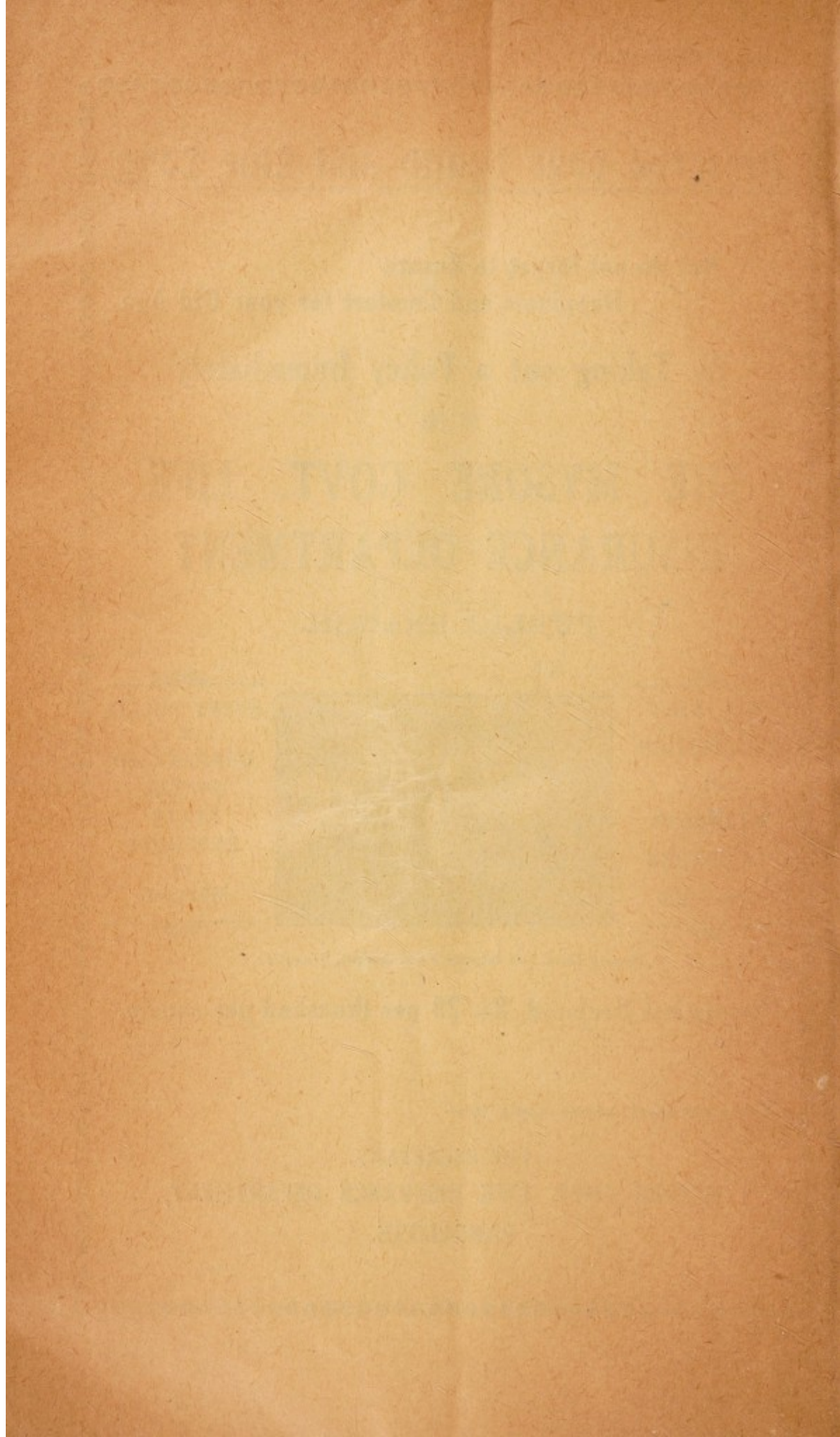
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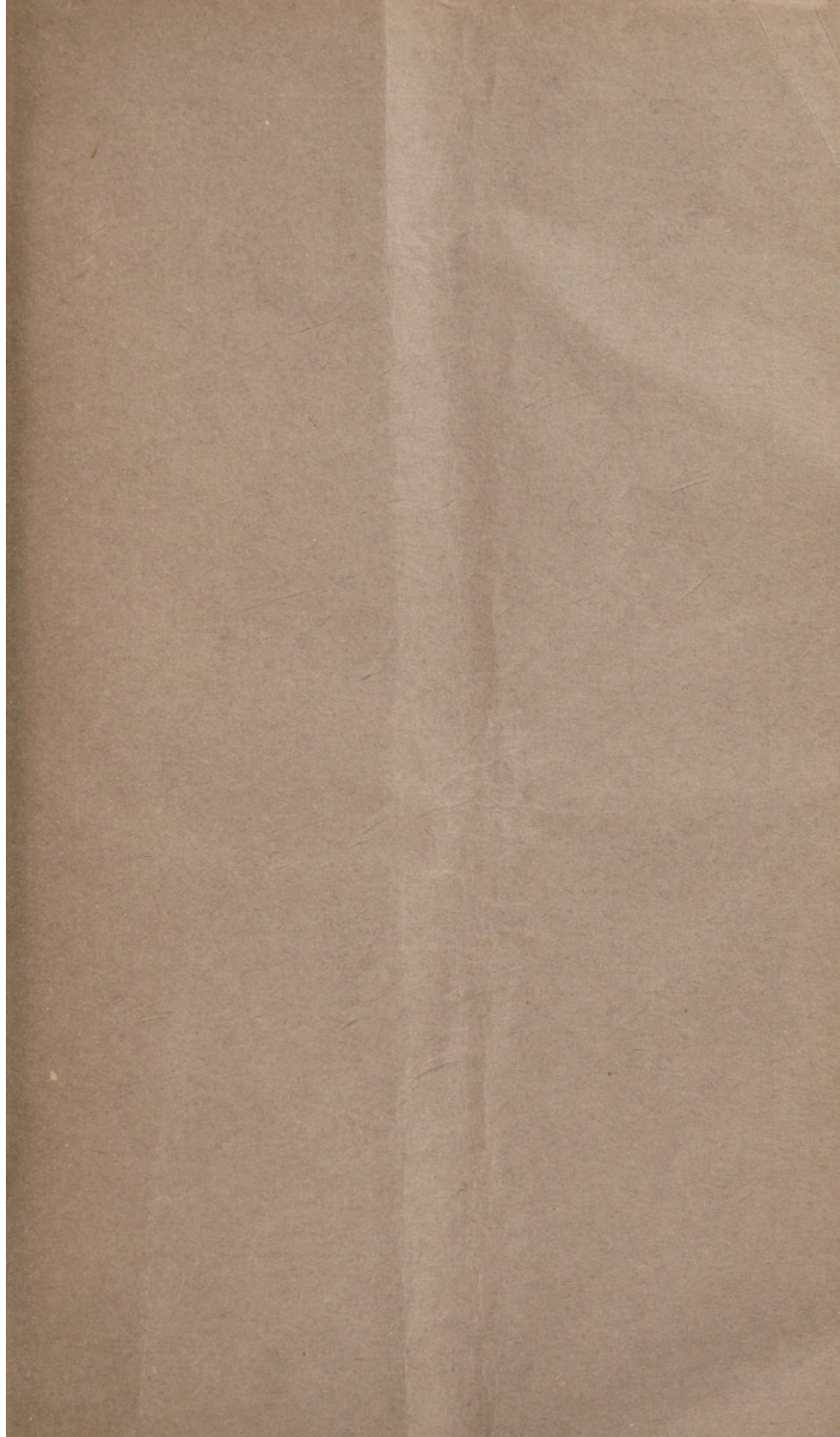
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* Not available.