

Quarterly report of the Mysore Department of Health.

Contributors

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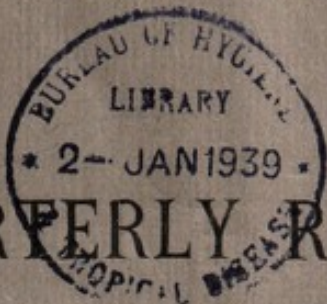
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Public Health is Purchasable. Within Natural Limitations any Community
can Determine its own Death-rate.

Vol. X]

[No. 2



QUARTERLY REPORT

OF THE MYSORE STATE

DEPARTMENT OF PUBLIC HEALTH

APRIL—JUNE, 1938

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.



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1938

**“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.

GENERAL.

The state of public health in the quarter under report was satisfactory, the State being practically free from the epidemic diseases, plague, small-pox and cholera.

In connection with the manufacture of plague vaccine at the Public Health Institute, Government have sanctioned in Government Order No. G. 9863-4—P. H. 136-37-4, dated June 11, 1938, the construction of an incubating room in the Public Health Institute at a cost of Rs. 945. Sanction has also been given for the installation of an incubator at a cost of Rs. 2,350 in Government Order No. G. 8475-6—P. H. 136-37-2, dated April 21, 1938.

The temporary staff of one chemist, two laboratory attendants and one peon in the Chemical Section of the Public Health Institute was placed on a permanent basis in Government Order No. G. 10066-7—P. H. 131-37-2, dated June 22, 1938, with the modification that the scale of pay of the chemist be changed from Rs. 75-5-100 to Rs. 75-5-150.

As per Government Order No. G. 9748-9—P. H. 23-37-16, dated June 6, 1938, the Sanitary Inspectors' Training Class has been continued for the third year of its existence at an estimated cost of Rs. 2,100. The session of 1938-39 actually commenced on August 18, 1938 with 25 students.

Dr. V. Narasimhamurthy who was on a Rockefeller Foundation Fellowship in America, returned and joined duty on August 11, 1938. He was awarded the degree of Dr. P. H.

As per Notification No. G. 9366—P. H.—92-37-7, dated May 25, 1938, Mr. G. N. Seshadri was posted as Superintendent, Bureau of Health Education, Mr. E.

Anantha Rao being posted as District Health Officer, Shimoga.

The Director was out of headquarters for 34 days during the quarter and visited 13 towns and 15 villages in seven districts in connection the inspection of sanitation, vaccination, water supply, drainage and town improvement works. He also inspected the Malaria Stations at Hiriyr, Nagenhalli and Mudgere, and attended the Representative Assembly and the Mysore Improvement Trust Board meetings in Mysore City.

BUREAU OF ADMINISTRATION.

(a) City Health Organisations.

(1) BANGALORE CITY.

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

Health Officer.

During the quarter 1,914 live births, 95 still-births, 10 plural births, 1,247 deaths and 266 infant deaths were reported. Of 1,999 parturition cases registered 20 material deaths occurred, giving a maternal mortality of 10.0 per thousand births. The computed birth-rate was 36.1 per mille of population, the death-rate was 23.5 per thousand of population and the infant mortality rate was 139.0 per thousand live births.

The City was free from plague and cholera. Small-pox accounted for 55 attacks and 14 deaths. As a preventive measure 7,381 vaccinations were done. The number of unprotected children was 1,154.

During the quarter 6 attacks and 3 deaths from typhoid were reported and 4 anti-typhoid inoculations were given.

Hydrophobia accounted for 1 attack and 1 death.

Under measles 5 attacks and 5 deaths were reported.

The following sanitary improvements were effected:—

1. Drains in Sampige Road and West Park Roads, Malleswaram, got repaired.
2. During this period, open drainage system in Link Road extension was completed.

3. One block of five flush-out latrines in Jalimohalla, one block of five urinals near mutton stalls and two urinals and one latrine in Arcot Srinivasa Char Street were constructed.
4. Two taps were opened which were closed for some months in IV Division.
5. Five new type platforms were constructed to the public fountains.
6. One thousand and thirty children bathed at Mavalli Bathing Centre, VI Division.
7. Five pits were got filled with rubbish and removal of rank vegetation was undertaken in VII Division.

The following inspections were made and action was taken wherever found necessary.

1.	No. of eating houses inspected	...	26
2.	„ aerated water factories visited	...	5
3.	„ coffee clubs and sweetmeat shops inspected	...	187
4.	„ bakeries visited	...	16
5.	„ notices issued	...	307
6.	„ notices compiled	...	85
7.	Number pending disposal at the end of the quarter	...	71

Seven cinema shows were held in different parts of the City.

During the quarter, 44 samples of ghee, 20 of butter, 7 of coffee powder, 1 of buffalo milk and 1 sample of unspecified milk were analysed. Of these 73 samples, 48 were found to be genuine and remaining 25 adulterated.

(2) MYSORE CITY.

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

Health Officer.

In Mysore City 1,332 live births and 35 still-births were reported giving a birth-rate of 42.9 in the quarter under report. The number of deaths reported was 742 with a death-rate of 23.9 per mille of population. Of these deaths, 148 were under 1 year of age with an infant mortality rate of 111.1 per 1,000 live births. Out of 1,362 parturition cases registered 11 deaths from child-birth were reported, giving a maternal mortality rate of 8.0 per 1,000 births.

The city was free from plague and cholera. During the quarter 197 anti-plague inoculations and 14 anti-cholera inoculations were done. Under the anti-rat campaign rat traps were distributed to 3,491 houses and 2,683 rats were caught and destroyed.

Only one attack of small-pox was reported. Of 2,458 vaccinations performed, 1,575, were primary and 883 re-vaccinations.

Two cases of influenza were reported.

During the quarter 13 deaths from typhoid were registered.

Nineteen houses were got disinfected as against 104 in the preceding quarter.

During the quarter 801 stray dogs were destroyed.

Malaria control work done during the quarter was on the same lines as in the previous quarter.

Under food inspection 84 visits were paid to hotels, 257 to coffee clubs, 54 to aerated water factories, 47 to bakeries and 171 to mutton stalls. During the quarter 61 notices were issued under the different sections of the Municipal Act. The samples of food stuffs analysed in the laboratory are described below:—

No.	Sample	Number of samples examined	Number of samples found genuine	Number of samples found adulterated	Number of cases prosecuted
1	Cow's milk	6	5	1	...
2	Buffalo's milk	1	1	...	1
3	Mixed milk	...	...	...	...
4	Ghee	2	2	...	...
5	Butter	2	2	...	...
6	Coffee powder	1	1	...	...
	Total	12	11	1	1

Particulars of work done at the Office laboratory are given below :—

<i>Items.</i>	<i>Number.</i>
1. Water for bacteriological examination (well 25 and tap 127) ...	152
2. Water for Chemical examination ...	17
3. Water for residual chlorine test ...	109
4. Bacteriological examination of milk samples...	2
5. Sewage effluents ...	1
6. Other samples examined ...	2
7. Rodents examined for plague ...	9
	(Negative).

(3) KOLAR GOLD FIELD.

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

Health Officer.

As per reports received 1,310 births and 556 deaths were registered during the quarter. Of the deaths reported 209 were of infants under one year of age.

During the quarter 17 attacks with 11 deaths from plague were registered. As a preventive measure 645 anti-plague inoculations were done.

Two attacks of small-pox were reported. Vaccinations performed as a routine preventive measure numbered 2,325, of which 1,462 were primary and 863 re-vaccinations. The estimated number of unprotected children was 760.

The area was free from cholera in the period under review.

Twelve fatal cases of influenza were reported.

Under food inspection the following visits were paid to hotels, markets, etc.

	<i>Visits.</i>
1. Hotels inspected ...	327
2. Mutton and fish stalls ...	271
3. Chakna stalls ...	248
4. Coffee clubs ...	282
5. Aerated water factories ...	192
6. Bakeries ...	218
7. Markets ...	36
8. Slaughter houses ...	36

During the quarter 43 houses were disinfected.

The number of stray dogs destroyed was 637.

Rats destroyed numbered 14,083.

In the office laboratory the following specimens were examined:—

<i>Items.</i>	<i>Number.</i>
1. Water analysis done	... 6
2. Sputum for T. B.	... 2
3. Blood smear for Malaria	... 3
4. Smear for G. C.	... 14
5. Motion for amoebae	... 1
6. Liver and spleen for anthrax	... 12
7. Urine for A. S:	... 10
8. Rats examined for plague	... 5
9. No. of dogs' brains sent to Coonoor	... 10
10. Motion examined for cholera	... 1
11. Motion for hookworm ova	... 5
12. Free chlorine test done	... 6

In the Maternity and Child Welfare centres the following work was done:—

1. Number of baths given to babies	... 604
2. Do visits paid to confined women	770
3. Do do pregnant women	786
4. Do confined women seen	... 927
5. Do mothers and babies that attended the clinic	... 689

Under sanitary improvements the following roads, drains and buildings were attended to:—

1. Repairs to roads inside Robertsonpet market.
2. Repairs to Gifford Road—3 furlongs.
3. Repairing the Cross Road in front of Mr. Venkatesha Chetty's Shop at Prithchard Road, Robertsonpet.
4. Repairs to tarred road in Kolar Gold Field Area.
5. Constructing a drain inside Andersonpet Town.
6. Constructing drains in Andersonpet in newly allotted sites.
7. Putting up new platforms inside Robertsonpet market.
8. Putting up a cement concrete gate-way for the Child Welfare Centre, Robertsonpet.

(b) District Health Organisations.**(1) MYSORE DISTRICT.**

A. S. VENKATACHALAM, L.M.S., D.P.H.,

Health Officer.

As this district is in the non-registration area, it is not possible to present the vital statistics of the current quarter in this report.

During the quarter 6 attacks with 5 deaths from plague were reported. A total of 3,491 anti-plague inoculations were done, of which, 239 were performed by the District Health Officer.

Small-pox accounted for 10 attacks in two places. As a routine preventive measure 12,544 vaccinations were done, of which 2,134 were performed in the Rural Health Unit, Mandya.

One attack of cholera was reported. As a preventive measure 274 anti-cholera inoculations were done, of which 106 were performed by the District Health Officer.

The bore-hole latrine work in Periyapatna Taluk was continued upto April 28. In this connection the Assistant Sanitary Inspectors visited 17 villages for propaganda work.

The District Health Officer visited 16 towns and 29 villages on inspection work. The work of Sanitary Inspectors and Vaccinators were supervised. He visited 4 schools and examined 272 children.

(2) SHIMOGA DISTRICT.

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

Health Officer.

In Government Notification No. 9366-P. H. 92-37-7, dated May 25, 1938, Mr. G. N. Seshadri, District Health Officer, was transferred to the Central Office in Bangalore. He handed over charge to Mr. E. Anantha Rao on the afternoon of June 11, 1938.

Because of centralisation of vital statistics work, statistics of births, deaths and marriages are now available for the current quarter for the whole district. In the rural area of the district, having a population of

4,73,960, 2,790 live births, 62 still-births, 259 infant deaths and 1,748 deaths from all causes were registered. The computed rates were:—birth-rate 23·5, death-rate 14·8, and infant mortality rate 92·8. Of 2,837 labour cases registered, 60 deaths from child-birth were reported, giving a maternal mortality rate of 21·0 per 1,000 births.

In the Municipalities with a population of 66,278 the rates were:—birth-rate 36·4, death-rate 14·8, infant mortality rate 76·3 and maternal mortality rate 18·7.

During the quarter one death from plague was reported.

Small-pox accounted for 20 attacks and 3 deaths. As a preventive measure 5,826 vaccinations were done.

The district was free from cholera.

Baby shows were held at Sorab, Hosanagar and Sagar at which 255 children were examined and lectures on maternity and childwelfare were given.

An institutional diet survey in the hostel attached to the Government High School is being undertaken. The data collected so far go to show that the diet is not well-balanced.

Four magic lantern lectures were given at Kudli, Harnahalli and Sagar during the jatra. Health talks were given in 3 primary schools on personal cleanliness, nutrition, etc.

Two hotels were inspected and suggestions were given for improving them.

In Shimoga Town 10 soak-pits were constructed for disposing of waste-water from the road side filter water stand-pipes.

The District Health Officer visited 6 towns and 24 villages on inspection work. He also inspected 3 model villages. He checked the work of 5 Vaccinators and verified 33 vaccinations. Suggestions were made to the President, Shimoga Municipality, regarding the improvements to the vegetable market and the sanitary method of disposal of night-soil. The District Health Officer supervised the anti-malaria operations undertaken by the Shimoga Municipality. He attended two meetings of Shimoga Municipality and one meeting of Bhadravati New Town Board.

(c) Voluntary Organisations.

RED CROSS SOCIETY.

Headquarter Grants.—(a) A sum of Rs. 720 being the grant towards the Nursery School, Mysore, for 1938, was received and paid to the Superintendent, Nursery School, Mysore, accordingly.

(b) A sum of Rs. 313, being the first half-yearly grant to the Kolar Gold Field Centre was received and paid to the Hon. Secretary, Kolar Gold Field Red Cross Branch, Robertsonpet, accordingly. A sum of Rs. 757 was received, being the first half-yearly grant to the State Branch.

University Grant.—The University of Mysore have generously sanctioned a sum of Rs. 300 towards the cost of publication of the translation of the book on 'Food' by Sir Robert McCarrison. Necessary steps are being taken to print and publish 2,000 copies of the same for propaganda purposes of the Society.

Delegation to the 16th International Red Cross Conference held in London in June 1938.—Dr. V. R. Naidu, M.B.B.S., M.Sc., a Mysore Doctor in London represented the State Branch at the above Conference held in London. He had the high honour of meeting their Imperial Majesties the King Emperor and the Queen Mary at a reception arranged in this connection. His Majesty, it is reported made kindly enquiries about the work of the Mysore State Branch and was very much pleased when he learnt the advance made by the Branch in its varied activities under the fostering care of His Highness the Maharaja of Mysore.

Equipment Grants.—The following equipment grants were sanctioned during the quarter:—

- (a) A grant of Rs. 200 towards the Maternity Home at Chandrasekarapura in Gubbi Taluk.
- (b) A grant of 300 towards the Maternity Home at Royarkoppal, Manjarabad Taluk.

Grants for Maintaining Additional Midwife.—The following grant was sanctioned towards the appointment of an additional midwife:—

A grant of Rs. 100 towards the cost of salary of the additional midwife at Kallur (Tumkur District).

Grants towards the Periodical Inspection of Maternity Homes.—A sum of Rs. 10 per mensem was sanctioned towards the conveyance allowance to the Lady Sub-Assistant Surgeon, Krishnarajnagar, for weekly visits to be paid by her to the Maternity Home at Bilikere.

Donations for the construction of Maternity Homes.—One Mr. Dasa Viswanatha Setty has donated a sum of Rs. 4,500 towards the construction of a Maternity Ward at Madhugiri.

Equipment and Maintenance of the Red Cross Buildings in the Kempe Gowda Road, i.e., Lady Willingdon Tuberculosis Dispensary and Seth Chellaram Kishindas Multani Maternity Home.—A committee of 5 members (1. *Rajamantrapravina Diwan Bahadur* Mr. K. Matthan, Chairman, Mysore State Branch of the Indian Red Cross Society, 2. the Senior Surgeon in Mysore, 3. the Municipal Commissioner, Bangalore, 4. the President, Bangalore City Municipality and 5. *Rajacharitavisarada Rao Sahib* Mr. C. Hayavadana Rao, Hon. Secretary, and Treasurer) was formed and the committee met at the Chairman's residence on March 9, 1938, to consider the above question. The conclusions arrived at by that committee are being given effect to.

Medical Examination of Sputa of Poor Patients.—Government have been requested to consider the desirability of issuing an order to the effect that sputa sent by any Registered Medical Practitioner of a patient who is poor, should be examined free of cost at the Public Health Institute, and the Victoria and the Krishnarajendra Hospitals, and the Hospitals located at all other district headquarters and the result made known also free of cost to the respective parties concerned.

Scheme for the Popularisation of the Knowledge of Tuberculosis.—Steps have been taken to arrange for a course of lectures on Tuberculosis to be delivered in the Normal Schools, Training Colleges, the Karnataka Sahitya Parishat and at the Teachers' Conference. The health of Public Health and Medical Departments have been sought for. The Director of Public Health has been requested to work out a scheme for these lectures and the concerned institutions have been addressed in the matter with a view to early action.

Appointment of an Organising Secretary.—Government have recently appointed Dr. S. V. Biligiri Iyengar,

L.M.S., as Organising Secretary for Maternity and Child Welfare.

Election of Vice-Chairman.—The Senior Surgeon was elected as the Vice-Chairman of the State Branch of the Red Cross Society.

Annual Meeting.—The annual Meeting of the Mysore State Branch of the Red Cross Society, was held at the Daly Memorial Hall, Cenotaph Road, Bangalore City, under the distinguished presidentship of Sir Mirza M. Ismail, Kt., C.I.E., O.B.E., C.St.J., Amin-ul-Mulk, Dewan of Mysore. A large and representative gathering of State Officers, members and well-wishers of the Society were present. Office-bearers were elected for 1938 and the Budget Estimates for 1938 were also approved.

OTHER CENTRES.

A description of work done in the 46 centres is given in the following statement. There appear to be no clinics held in Sisu-Vihar, Mysore City.

Centre	Work Done	Remarks
1. Bangalore
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46.

Maternity and Child Welfare Work done

No.	Place	Name of Centre	No. of Clinics held		
			Ante-natal	Post-natal	Children
1	Anekal ...	Maternity and Child Welfare Centre	...	...	...
2	Bangalore ...	Beli-mut Creche ...	8	8	8
3	Do ...	Civic and Social Progress Association, Chamarajpet.	9	5	16
4	Do ...	Deena Seva Sangha, Malleswaram	...	...	...
5	Do ...	Mahila Seva Samaj, Basavangudi	12	12	12
6	Do ...	Hebbal Child Welfare Centre ...	6	...	13
7	Do ...	Child Welfare Centre (Bangalore W. C. and Silk Mills Creche).	13	...	...
8	Bethlur ...	Bethlur Baby Clinic, Methodist Mission.	...	...	10
9	Bhadravati ...	Bhadravati Iron Works Child Welfare Centre.	...	...	...
10	Channapatna ...	Maternity and Child Welfare Centre	12	...	12
11	Chitaldrug ...	Do do	7	8	40
12	Chikballapur ...	Do do	13	...	...
13	Chikmagalur ...	Do do	12	...	12
14	Davangere ...	Do do	...	...	...
15	French-Rocks.	Do do	12	...	12
16	Kengeri ...	Gurukula Ashram	...	...	...
17	Hassan ...	Methodist Mission combined Dispensary and C. W. Centre.	13	...	12
18	Kolar ...	Champion Reefs Mines	...	...	...
19	Do ...	Mysore Mines	...	...	...
20	Do ...	Nandidroog Mines	...	...	...
21	Do ...	Oorgaum Mines	...	...	...
22	Do ...	Sanitary Board area Child Welfare Centre, Robertsonpet.	13	13	13
23	Do ...	Kolar Town Maternity and Child Welfare Centre.	...	...	...
24	Koppa ...	Maternity and Child Welfare Centre	13	13	13
25	Mysore	Civic and Social Progress Association	27	...	2
26	Do ...	Vani Vilas Maternity and Child Welfare Centre V. V. H.	14	...	13
27	Do ...	Devaraj Centre	...	...	...
28	Do ...	Gajasala Centre	...	...	...
29	Do ...	Krishnarajendra Mills Creche	...	...	...
30	Do	Mahila Seva Samaj, Ante-natal and Child Welfare Centre.	...	...	...
31	Do ...	Mallamma Centre	...	...	...
32	Do ...	Savoy Centre	...	...	...
33	Do ...	Subramanyam Centre	...	...	...
34	Do ...	Sri Vani Vilas Milk Centre,	...	...	...
35	Do ...	Vocational Institute for Women	...	...	...
36	Do ...	Toddler's School in Gajasala Centre	...	...	...
37	Do ...	Do in Nanjaraja Bahadur Chattram.	...	...	...
38	Do ...	Do in Kantharaj Urs Chowk.	...	...	...
39	Mandagadde ...	Mandagadde Child Welfare Centre.	...	...	...
40	Nanjangud ...	Maternity and Child Welfare Centre.	12	...	12
41	Sarjapur ...	Do do	...	...	...
42	Shimoga ...	Ante-natal and Baby Clinic, Methodist Mission.	18	13	...
43	Do ...	Lady Mirza Ismail Milk Centre	...	...	12
44	Sivasamudram ..	Maternity and Child Welfare Centre.	...	...	...
45	Tarikere ...	Do do	11	...	11
46	Yarnahalli ...	Do do	12	12	12
Total (Mysore State) ...			232	84	235

BUREAU OF EPIDEMIOLOGY.

J. J. SIMON, L.M.P.,

Superintendent (in charge).

During the quarter Mr. B. Ananthaswamy Rao was deputed to Singapore to attend the League of Nations Health Organisation as per G. O. No. G. 8852-3—P. H. 120-37-6, dated May 7, 1938. He was in charge of the Bureau upto May 15, when he handed over charge to Mr. J. J. Simon, the Malaria Officer.

The following places were visited by Mr. B. Ananthaswamy Rao during the quarter :—

<i>Places Visited.</i>	<i>Purpose.</i>
1. Hiriyr ...	... Joint inspection of the Engineering aspect of Malaria with the Sanitary Engineer.
2. Belur ...	... Inspection with reference to Malaria survey of the town.
3. Mudgere—Handguli—Halur.	Inspection of vaccination with the Director of Public Health.
4. Chikmagalur, Tarikere.	Discussion with the Vice-President and the Director of Public Health regarding proposals for anti-malaria work.
5. Shimoga—Jog ...	... Inspection of Project camp sites with reference to evidence of malaria.
6. Bhadravati ...	... Inspection of malaria work in Old Town and Iron Works.
7. Kolar Gold Field ...	... Inspection of anti-malaria work in the Mining Area.
8. Jog ...	... Malaria Survey.

The Superintendent in charge visited the three Study Stations, Jog, Bhadravati, Marconhalli and Tippagondanahally.

Malaria Stations.

The quarterly spleen and blood examinations in all the three study stations were done as usual, and the

results, as against those for the corresponding quarter of of the previous year, were as follows :—

<i>Station</i>	Sp. R.		P. R.	
	1938	1937	1938	1937
Nagenhalli	... 29'8	26'0	7'0	5'0
Mudgere	... 25'0	45'0	2'7	8'5
Hiriyur	... 40'0	30'0	6'6	5'0

There was practically no change in the routine work in these stations except that, in Mudgere Paris-green spraying in the river area, was slightly extended up to the belt of trees close to the river-bed towards north-east of the town, and in the other two stations it was temporarily suspended in some selected channels within the control area, for the purpose of studying the factors favouring anopheline breeding under natural conditions. In Hiriyur, the service of the elephant used for clearing the weeds in the Vedavathi river was discontinued, as it was found pulling out only the well-grown weeds in the swampy area without tackling the fresh shoots and those on hard ground as reported in the previous quarter.

In order to study the more natural conditions favouring anopheline breeding within and beyond the control area, the following special observations were taken up in the study stations during the quarter :—

- (1) Paris- green spraying in the Farm channel in Nagenhalli Farm, in the wells at Nagoonahalli Village, and in Krishnambudhi channel flowing close to the T. B. at Hiriyur was temporarily stopped for purposes of study.
- (2) Observations in regard to anopheline breeding in some selected paddy plots and channels, were made both in the control and peripheral areas.
- (3) Observations for anopheline breeding in the shaded and the non-shaded places both in the control and peripheral areas were made.

All these experiments are still under observation and it is hoped to complete and publish the results in the next quarter.

MANDYA CONTROL UNIT.

Malaria control in the group of 10 villages in Mandya Taluk was continued as usual. The half-yearly spleen and blood examinations of all the ten control and 4 comparison

villages for the first half of 1938, were done as usual in April this year, and the results as against those for the corresponding period of the previous year are given below :—

	Sp. R. 1938	Sp. R. 1937	P. R. 1938	P. R. 1937
<i>Control Villages.</i>				
1. Chikmandya	7.9	20.0	5.0	6.0
2. Satnur ...	6.4	6.9	4.0	5.2
3. Kommarahalli	17.8	20.0	8.0	10.0
4. Hanganahalli	13.0	23.3	10.0	6.6
5. Hulivana ...	7.6	25.0	6.0	8.0
6. Gopalapura	12.8	20.0	6.0	6.0
7. Kodihalli ...	25.0	34.1	6.0	15.8
8. Malligere	25.4	41.3	10.0	8.3
9. Jaigundipatna	18.2	28.6	7.0	6.6
10. Kallahalli ...	20.3	28.7	7.0	5.0
<i>Comparison Villages.</i>				
1. Kilara ...	23.6	25.7	9.0	17.7
2. Mallanaikankatte	20.0	26.7	13.0	10.0
3. Panakanhalli	31.7	40.5	20.0	12.0
4. Ummadahalli	35.3	54.9	12.0	18.0

The distribution of quinine in the unit villages was not undertaken by the staff during the quarter as the activities of the Rural Health Unit at Mandya in regard to distribution of totaquine tablets extend into all the malaria control unit villages also.

ANTI-MALARIA ENGINEERING.

Observations on larval findings in the channels and hallas having a good fall round about Bevinahalli, Kyathangere and Sundahalli treated by anti-malaria engineering methods, were continued. Regular visits by the staff were also made for similar purpose, to Kodihalli and Gopalapura, as it was proposed to construct an automatic flushing syphon and a sluice respectively in those two villages.

The half yearly spleen and blood examinations in those three villages, *viz.*, Bevinahalli, Kyathangere and

Sundahalli for the first half of 1938, were conducted during April this quarter.

MALARIA CONTROL IN CITIES.

Bangalore City.—The mosquito control work in the City was continued as usual with oil spraying. The adult collections from all the catching stations during the quarter were 220 anophelines and 400 culicines, as against 95 and 696 respectively for the corresponding quarter of the previous year. The supervising staff examined 2,998 wells and re-stocked fish in 2,173 wells. Besides the oiling and check inspections, the gang were engaged in clearing the old drains and cutting new ones to drain off stagnant water.

Mysore City.—The anti-malaria work in the City was continued as usual with oil and Paris-green during the quarter. The number of adults caught in the catching stations was 193 as against 276 in the corresponding quarter of previous year. The staff examined and re-stocked fish in 849 wells and 17 pools.

MALARIA SURVEYS.

Malaria surveys were conducted in Jog in Sagar Taluk, in P. K. T. Sanatorium in Mysore City, and in ten villages along the Shimsha channel beyond Marconhalli, during the quarter.

Jog (Sagar Taluk).—A detailed survey was conducted in Jog and it was found that the place is hyper-endemic for malaria. The spleen rate among children under 12 years of age was 96.1 per cent, and the parasite rate among 17 people with history of malaria, was 41.2 per cent. The bed of the river was found to be breeding heavily throughout, except at the falls. The culex were also breeding in large numbers at the falls and in rocky pools in the river bed. Among the carrier species of anophelines identified, *A. culicifacies* and *A. fluviatilis* were found in large numbers. Proposals for immediate control were sent up and it is hoped that the work would be taken up after the monsoon.

Princess Krishnajammanni Tuberculosis Sanatorium (Mysore City).—As the patients in the Sanatorium were subject to periodical attacks of malaria a survey was conducted for a half-mile around the Sanatorium and it

was found that the carrier species of anophelines were breeding just beyond the city malaria control limits. In Mallumia's garden close to the Sanatorium both carrier and non-carrier species were found breeding in wells and stagnant pools in the channel. The owners of the garden area were not allowing spraying in their gardens. In the villages Matikalli and Kumbarkoppal, quite close to the Sanatorium, the carrier species were found breeding. The spleen rate in the former is 40.0 per cent, and in the latter it is below 10 per cent. A scheme for effective control of the area is under preparation.

Marconhalli Area.—Spleen survey in the following villages along the Shimsha Canal from Marconhalli was conducted:—

<i>Places.</i>		<i>Spleen-Rate.</i>
1.	Hanumapura	25.0
2.	Torehalli	0.0
3.	Shanboganahalli	0.0
4.	Yachanahalli	5.0
5.	Channahalli	7.0
6.	Toobinkere	7.4
7.	Kirangur	7.3
8.	Kachuvanahalli	3.5
9.	Bettahalli	3.3
10.	Carithimmanapalya	4.3

HOOKWORM CAMPAIGN.

In connection with propaganda for the introduction of private pit-latrines 17 villages in Periyapatna Sub-Taluk were visited by two Assistant Sanitary Inspectors. They explained to 860 persons in all but response was poor.

GUINEAWORM CONTROL UNIT.

The Assistant Sanitary Inspector continued to be in charge of the Unit during the quarter. He toured in 5 taluks in the Chitaldrug District and the following is a brief statement of the work done:—

No. of days toured	... ..	46
Do villages visited for the 1st time	... ..	133
Total No. of villages visited	... ..	227
No. of villages having active G. W. cases	... ..	20
Average No. of G. W. cases per village	... ..	23

No. of step-wells examined	...	92
Do wells stocked with fish for the first time		24
Do wells re-stocked with fish	...	31
Do wells treated with perchloron	...	1

Out of 20 villages in which active guineaworm cases were found, 3 belong to Harihar Sub-Taluk, 3 to Chitaldrug Taluk, 2 to Chellakere Taluk, 2 to Davangere Taluk, and 11 to Molkalmuru Taluk. The Assistant Sanitary Inspector also took active part in guineaworm demonstrations at the District Conference in Chitaldrug and at the departmental cinema shows in the district.

CENTRAL LABORATORY.

The study of *A. culicifacies* was taken up during the quarter. The adult mosquitoes were got from Mandya and Hiriya and allowed to lay eggs. A number of larvæ were raised from the eggs, which were reared in hay infusion specially prepared for the purpose. About 14 adults were raised from the larvæ, 2 males and 12 females. Experiments for allowing them to mate in cages for raising colonies of the species are in progress.

Routine examinations of blood smears received from Mandya and Mudgere were done and the adult collections from Marconhalli were identified as shown below:—

	No. Ex.	No. Pos.	Sp. R.	P. R.
<i>Mudgere.</i> —				
Control	...	72	18	25.0 2.8
Peripheral	...	38	22	57.9 23.7
	No. Ex.	Dangerous.	Non-dangerous.	
<i>Marconhalli.</i> —				
Adults	...	54	12	42

CONTROL OF EPIDEMIC DISEASES.

The State was practically free from all the three epidemic diseases in the quarter under report, the number of deaths from plague, small-pox and cholera being 26, 20 and 3, respectively. In April, all the houses in Bethamangala including the water works colony were fumigated with cyanogas as an anti-rat measure. Anti-plague and anti-cholera inoculations done during the quarter numbered 7,486 and 605, respectively. Particulars of 58,904 anti-small-pox vaccinations done are given in the following statement:—

Statistics of Primary and Re-vaccinations done in Mysore State during the quarter April to June, 1938.

District	Number of vaccinations done				Primary vaccinations					Re-vaccinations				
	Total	Unknown	Unsuccessful	Successful	Total	Unknown	Unsuccessful	Successful			Total	Unknown	Unsuccessful	Successful
								All Ages	Under 1 year	Over 1 & under 6 years				
Bangalore District (Excluding City.)	6,132	452	1,455	4,225	5,537	306	1,040	4,191	1,797	2,226	595	146	415	34
Chitaldrug District	6,117	127	1,709	4,281	5,296	104	1,065	4,127	1,334	2,233	821	23	644	154
Hassan District	4,040	386	865	2,789	3,560	296	542	2,722	654	1,635	400	90	323	67
Kadur District	2,666	252	581	1,833	2,110	130	315	1,665	290	1,034	556	122	266	168
Kolar District (Excluding K. G. F.)	...	...	...	...	Not Received.	...	...	...	...	...	...	...	...	...
Mysore District (Excluding City).	10,410	830	2,082	7,517	8,412	580	1,010	6,822	2,788	4,034	1,988	250	1,053	695
Shimoga District	5,826	692	1,585	3,549	4,226	304	687	3,245	964	1,905	1,590	388	898	304
Tumkur District	5,832	426	1,753	3,653	4,819	337	970	3,512	1,214	2,024	1,013	89	788	141
Mysore State (Excluding Cities and Special Areas.)	41,023	3,165	10,011	27,847	33,970	2,057	5,629	26,284	9,041	15,091	7,053	1,108	4,382	1,563
Bangalore City	7,381	69	4,708	2,604	2,426	60	135	2,231	1,423	808	4,955	9	4,573	373
Mysore City	2,458	148	730	1,580	1,575	96	155	1,324	849	463	883	52	575	255
Kolar Gold Field	2,925	99	308	1,418	1,462	68	207	1,187	844	343	863	31	601	231
H. T. C., Closepet	3,583	305	2,073	1,205	1,022	50	258	714	436	260	2,561	255	1,315	491
R. H. U., Mandya	2,134	191	586	1,357	1,270	40	214	1,016	376	469	864	151	372	341
Mysore State (Including Cities and Special Areas.)	58,904	3,977	18,916	36,011	41,725	2,371	6,598	32,756	12,969	17,454	17,179	1,606	12,318	3,255

TABLE I.

Spleen and Blood Examination made in the Experimental Malaria Stations during the Quarter.

Spleens	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 not examined	1	1	...
Spleen Negative	136	2	0.01	22	1	4.5	12	1	8.3	170	2	2.4
Palpable	16	...	...	...	...	...	1	...	...	17	...	...
1	17	4	23.5	3	...	...	3	1	33.3	23	5	21.8
2	8	1	12.5	5	1	20.0	1	...	...	14	2	14.3
3	4	...	...	1	1	100.0	...	...	...	5	1	20.0
4	3	...	...	...	...	...	...	...	...	3	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...
All persons with palpable Spleen.	48	5	10.4	10	2	20.0	5	1	20.0	63	8	12.7
Grand Total—All Spleens ...	184	7	3.8	32	3	9.4	17	2	11.8	233	12	0.6
Spleen Rate ...	184	48	26.0	32	10	31.3	16	5	31.3	233	63	27.0

TABLE II.
Adult Catches in Control and Peripheral Areas.

Species	Nagenhalli		Mudgere		Hiriyur		Nagoonhalli	
	Pd. zn.	Pl. zn.	Pd. zn.	Pl. zn.	Pd. zn.	Pl. zn.	Pd. zn.	Pl. zn.
	<i>A. aconitus</i>	1	8	6	5	...
<i>A. annularis</i>	9	100	3	16	7	14	7	...
<i>A. barbirostris</i>	...	...	...	...	...	...	...	...
<i>A. culicifacies</i>	11	82	26	31	18	83	8	...
<i>A. fluviatilis</i>	2	34	2	26	8	83	...	...
<i>A. hyrcanus</i>	...	...	...	1	...	...	...	...
<i>A. jamesii</i>	2	2	12	55	...	...	...	...
<i>A. jeyporiensis</i>	...	...	59	457	...	...	...	...
<i>A. karwari</i>	...	...	1	1	...	...	...	...
<i>A. leucospkyrus</i>	...	...	...	...	...	...	...	...
<i>A. maculatus</i>	...	...	...	...	...	...	...	...
<i>A. minimus</i>	...	...	...	...	...	...	...	...
<i>A. majidi</i>	...	...	1	1	...	1	...	...
<i>A. pallidus</i>	4	...	...	...	...	1	...	...
<i>A. splendendus</i>	...	...	...	...	...	1	...	...
<i>A. stephensi</i>	...	2	...	...	11	67	...	...
<i>A. subpictus</i>	17	106	23	72	191	279	30	0
<i>A. tessalatus</i>	...	...	1	4	...	12	...	...
<i>A. turkudi</i>	...	...	...	...	...	...	...	...
<i>A. vagus</i>	1	9	23	61	8	6	4	...
<i>A. varuna</i>	...	...	...	2	...	...	...	...

TABLE III.

Species of Malaria Parasites

Age			Nagenhalli						
			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	1	1	100.0	...	...	...	...
10-19	1	1	100.0	...	...	...	...
20 and over	2	1	50.0	1	50.0	...	...
All ages	4	3	75.0	1	25.0	...	...

Age			Mudgere						
			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	2	1	50.0	1	50.0	...	...
10-19
20 and over
All ages	2	1	50.0	1	50.0	...	...

Age			Hiriyur						
			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	2	...	...	1	50.0	1	50.0
10-19	2	...	...	2	100.0	...	...
20 and over
All ages	4	...	...	3	75.0	1	25.0

BUREAU OF LABORATORIES.

(a) Public Health Institute.

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

Superintendent.

1. *Bacteriological Section.*—During the quarter 2,852 specimens were examined in this section as against 2,967 in the previous quarter.

No.	Particulars	Positive	Negative	Special samples	Total
1	Blood for Wassermann reaction.	862	1,185	...	2,047
2	Do Widal	49	60	...	109
3	Do Blood count	...	...	4	4
4	Do M. P.	1	14	...	15
5	Motion for Amœba	...	20	...	20
6	Do Cholera	...	29	...	29
7	Sputum for T. B.	3	10	...	13
8	Smear for G. C.	6	12	...	18
9	Vomit for Cholera	...	1	...	1
10	Urine	...	...	21	21
11	Water for Cholera	...	2	...	2
12	„ Typhoid	...	6	...	6
13	„ Cyclops	...	2	...	2
14	„ General	...	...	559	559
15	Preparation of Auto-vaccine	...	...	3	3
16	Section cutting	...	...	1	1
17	Vondenbergh Test	...	...	1	1
18	Fluid for examination	...	...	1	1
	Total	921	1,341	590	2,852

2. *Chemical Section.*—As compared with 558 specimens in the previous quarter, 591 specimens were examined in the quarter under report.

Particulars.	Number Examined.
Water for Residual Chlorine	530
Water for potable purposes	57
Molasses	3
Wood naphtha	1

3. *Medico-legal Section.*—In the medico-legal section, 66 cases with 226 articles were examined during the quarter as compared with 58 cases with 195 articles during the previous quarter.

No.	Nature of Examination	No. of cases	No. of articles
1	Suspected Human poisoning ...	33	119
2	Mammalian Blood ...	21	85
3	Rape ...	8	11
4	Abortion ...	2	9
5	Explosives ...	1	1
6	Seeds ...	1	1
Total ...		66	226

As a result of examination madar was detected in 1 case, aconite in 2 cases, aconite roots were identified in 2 cases, dhatura in 2 cases, mammalian blood in 18 cases and spermatozoa was detected in 1 case.

4. *Vaccines Issued.*—The following quantities of vaccines were issued during the quarter :—

T. A. B. Vaccine ...	328 cc.
Anti-cholera Vaccine ...	2,150 cc.

5. *Fees.*—The amount of money collected for the examination of specimens and for supply of vaccines was as follows :—

Item	April-June			January-March		
	Rs.	a.	p.	Rs.	a.	p.
1. Bacteriological Section ...	47	11	0	21	8	0
2. Chemical Section ...	75	0	0	70	0	0
3. T.A.B. Vaccine ...	41	8	0	46	4	0
4. Cholera Vaccine ...	858	6	0	1,410	4	0
5. Other Receipts ...	6	2	0	...		
Total ...	1,028	11	0	1,548	0	0

6. *Nutrition Experiments.*—A number of biological experiments are being conducted in the Institute for

assessing the nutritive values of the common food-stuffs. Different samples of rice sold in the market such as Coimbatore sanna, Hyderabad rice, Ajmeer rice, Siam rice and Rangoon rice were experimented upon for finding out their suitability for consumption. It was found that all the samples examined, with the except of hand-pounded rice, are greatly deficient in Vitamin B₁. The effect of addition of dhal to the highly polished rice was also investigated, and it was found that the addition improves the food value of the milled rice.

Experiments were also carried out for finding the comparative food values of rice, cholam and ragi.

VACCINE INSTITUTE.

(b) Vaccine Institute.

J. A. ISWARAMURTHY, B.A., L.M.S., B.S.SC.,

Superintendent.

During the quarter 29 samples of vaccine lymph were examined bacteriologically 321 times. Their potency was tested in serial dilutions on the rabbit and clinically in the Model Range prior to issue.

The standards adopted for potency and sterility of lymph issued were continued.

A summary of work done at the Institute is given below :—

<i>Particulars.</i>	<i>Number.</i>
Calves waiting on April 1, 1938 ...	7
„ replaced against those returned during the previous quarter ...	nil
„ purchased during the quarter ...	54
„ waiting died ...	nil
„ available for vaccination ...	61
„ waiting on July 1, 1938 ...	26
„ vaccinated during the quarter ...	35
„ vaccinated and remained uncollected on April 1, 1938 ...	1
„ vaccinated and rejected ...	4
„ „ died (uncollected) ...	nil
„ „ whose pulp was collected ...	29
„ „ remained over for collection of lymph on July 1, 1938 ...	3

<i>Particulars.</i>	<i>Number.</i>
Lymph produced during the quarter was 8,872 grains of pulp equivalent to ...	114,400 cases
„ remained on April 1, 1938 enough for ...	220,750 „
„ produced during the quarter enough for ...	114,400 „
„ available enough for ...	335,150 „
„ issued during the quarter enough for ...	78,560 „
„ discarded due to defective potency from storage enough for ...	1,700 „
„ utilised for 'seed' test, etc., enough for ...	33,000 „
„ remained over on July 1, 1938 ...	221,890 „
Income realised, including arrears as per accounts of the office ...	Rs. 2,928 0 0
Expenditure during the quarter ...	„ 5,904 0 0

Model Range.—In the model range 275 primary vaccinations were done with the lymph of varying age periods, for clinical test on children before releasing for general issue, giving a success rate of 96·5 per cent. The oldest lymph used in this range had been preserved for 3 months and 27 days from the date of production and the freshest for about 2 months and 21 days, the average period being 3 months and 9 days.

The percentages of successful primary vaccinations reported during the quarter were :—

<i>Area.</i>	<i>Per cent successful.</i>
Rural Health Unit, Mandya ...	81·7
Bangalore City ...	95·7
Mysore „ ...	89·3
Rest of State ...	80·8

BUREAU OF HEALTH EDUCATION.

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

Superintendent.

In Government Notification No. G. 9366—P. H. 92-37-7, dated 25th May 1938, Mr. E. Anantha Rao, was transferred as District Health Officer, Shimoga, and G. N. Seshadri took charge as the Superintendent, Bureau of Health Education, from June 21, 1938.

Cinema Publicity.—During the quarter the cinema publicity work was carried on in the districts of Chitaldrug,

Hassan, Kolar, Shimoga and Tumkur. A total of 51 cinema demonstrations were arranged for an approximate audience of about 39,000 persons. The cinema staff travelled, as usual, in the Departmental Motor van, covering a total distance of 2,278 miles.

The details of the 51 cinema shows are given below :—

<i>Particulars.</i>	<i>No. of Shows.</i>
1. In connection with the Baby Shows ...	10
2. Do District Conference, Hassan.	2
3. Do do Kolar	1
4. Exclusively for ladies at the Mahila Seva Samaja and Sarada Sthree Samaja, Bangalore City ...	2
5. In selected parts of Bangalore City ...	7
6. In selected villages of Shimoga, Chitaldrug, Kolar and Tumkur Districts ...	29

Health Talks in Schools.—The Publicity Officer during his itineration visited two Government Primary Schools and delivered health talks to teachers and pupils.

Lectures.—Three lectures on 'House-fly' were delivered by the Publicity Officer at Doddasiddawarahalli, Kalledevapura and Haranahalli. Besides, in 27 places he delivered short lectures on the aims and objects of the Red Cross Movement in general and the activities of the Mysore State Branch of the Indian Red Cross Society in particular.

Health Exhibitions.—The Bureau helped, by lending the available health charts, posters, etc., in organising health exhibitions in connection with (a) the Baby Week organised by the Bangalore Woollen, Cotton and Silk Mills, Ltd., and (b) the exhibition arranged on the occasion of the District Conference at Shimoga. A poster exhibition was also arranged during the District Conference at Hassan.

'*The Mysore Arogya*'.—The March 1939 issue of the 'Mysore Arogya' (Diet and Health Number) was printed and published during the quarter.

Newspaper Publicity.—Thirteen (13) weekly bulletins in Kanarese in regard to the state of public health in the State were sent to Press for publication. The convictions secured 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 1,051 illustrated posters and 8,530 leaflets and pamphlets on health subjects published by the Department were distributed.

BUREAU OF RURAL HEALTH.

(a) Health Training Centre, Closepet.

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

Health Officer.

Rajkumari of Amrut Kaur, Lady Maharaja Singh, Gwalior and others, Mr. Iqubil Singh and Dr. Myers, Hon'ble Yakub Hussain, Minister of Madras, Mr. T. P. Fernandez, Nagpur Health School, C. P., visited the Unit during the quarter.

The students of the Sanitary Inspectors' Training Class, Bangalore, were given training in field work in this Unit in the month of June. They arrived here in two batches and each batch was given a fortnight's intensive practical training.

Typhoid.—There were 8 attacks with 2 deaths from typhoid as against 4 attacks with 1 death in the previous quarter. These were sporadic cases and occurred in several villages. Necessary precautions were taken to arrest the spread of the disease; 22 anti-typhoid inoculations were done.

Dysentery.—Forty-two attacks with no death due to dysentery were registered as against 68 attacks with 12 deaths in the previous quarter. June contributed the largest number of these cases, 36 attacks having occurred during this month. Settihalli, a village in the 'D' division contributed 10 cases, Checkere, also in the 'D' division, contributed 6 and Anjanapura in 'B' division contributed 6 cases. Arrangements were made to prevent the spread of the disease and treatment for the cases was arranged with the two Local Fund Dispensaries in the area.

Measles.—Twenty-two cases of measles with no death were reported against 35 with no death in the previous quarter.

Consumption.—Three cases with one death from pulmonary tuberculosis were registered in this office as against three attacks with nil death in the previous quarter.

Pneumonia.—Pneumonia showed a slight increase in its incidence. The cases were influenzal in type generally and the disease prevailed in a sporadic form all over the area. Fifteen attacks with five deaths were reported as compared with four attacks with three deaths during the previous quarter.

House Survey.—The re-survey of houses was completed and the improvements necessary for individual houses and for villages were tabulated. These are being written up in the registers provided by the Rural Welfare Centre to the Patels so that they will form a guide to them when they take up improvement work in their villages.

Chlorination.—According to routine 117 public wells and 250 private wells were chlorinated out of 1,450 in the area.

Vital Statistics.—The checking of births and deaths registers was satisfactorily carried out. The lists of the detected births and deaths were sent to the Sub-Division Officer as usual for taking necessary action. The birth-rate for the area was 52·1 and the death-rate 19·4. Fifty-six infant deaths were recorded, giving an infant mortality rate of 85·1; 52 of these deaths have been investigated by the Public Health Nurses.

Maternal Deaths.—Eight maternal deaths, giving a maternal mortality of 11·9 were recorded. All these deaths were investigated by the Public Health Nurses. The causes of these maternal deaths are given below:—

Maternal Deaths investigated in the Health Unit Area.

Name and Address	Para	Age	Delivery conducted by H. T. C. Midwife or Untrained Dhai	Date of Death	Cause of Death investigated	Had any pre-natal care?	Remarks
1. Parijan, Closepet.		22	H. T. C. Midwife.	19th April 1938	Shock and heart-failure	Registered only 12 days prior to delivery.	Advised to go to hospital, but the patient did not go.
2. Lakshmi, Kudlur	VIII	30	Untrained Dhai.	22nd do	Tetanus and Puerperal Sepsis.	Yes—2 months	Removed to hospital, but she did not stay. Returned home and died on the same night.
3. Eramma, Doddamalur.	X	28	Do	19th May 1938	Hæmorrhage, Adherent Placenta.	Yes—3 months	The people did not call the help of the staff nor did they take any medical aid. Gave some native medicines.
4. Ningi, Chimalur.	I	18	Hospital Midwife.	28th do	Anti-partum hæmorrhage.	Yes—1 month	Advised to be under hospital care. Advice not carried out. The parents refused to take her to hospital.
5. Puttathai, Abbur.	II	22	H. T. C. Midwife.	23rd do	Puerperal Mania	Yes—4 months	Had fever for 4 days prior to delivery. Refused hospital treatment.
6. Muthi, Voddarhalli.	I	18	Untrained Dhai.	15th June 1938	Heart-failure due to prolonged labour.	Do	Delivery in the 7th month. Breech presentation. Badly handled by Dhai at home. Died before delivery was complete.
7. Channi, Voddarhalli.	IX	30	Do	Do	Adherent Placenta	Yes—5 months	Did not call the assistance of the staff. Placenta was decomposed when the P. H. Nurse saw the case during her village visit. She was taken to hospital after much persuasion and the patient died after the removal of placenta in her home.
8. Lingamma, Bhairapatna.	VI	26	Do	21st May 1938	Post-partum hæmorrhage.	Do	The placenta was not delivered and the untrained Dhai removed it manually. The patient became unconscious. Had hæmorrhage and collapsed in an hour.

It is significant to note that out of 64 births and 10 deaths that have been registered as unreported, 25 births and 3 deaths have been detected in Closepet Town only. The efficiency of reporting has improved considerably in the rural areas while that in Closepet Town shows no improvement.

Vaccination.—Intensive vaccination work was carried on as usual in 'A' and 'B' divisions; 3,583 vaccinations as against 3,879 during the previous quarter were done. Of these, 1,022 were primary and 2,561 re-vaccinations. The primary vaccinations gave a success rate of 73·5 per cent and the percentage of those whose reaction proceeded to the pustular stage among the re-vaccinations was 18·3 per cent.

Maternity and Child Welfare.—The Public Health Nurses' work in all the divisions was satisfactory. The clinics were held regularly in the different places as in the previous quarter. In all, 60 clinics were held at which 107 pre-natals, 433 infants, 504 pre-school children and 116 others attended.

The five Nurses during their 5,258 home-visits, examined and registered 2,228 pre-natals, 3,376 infants and 3,043 pre-school children. The Nurses examined 751 samples of urine.

Midwives.—The Midwives attached to the Unit conducted 343 deliveries during the quarter, showing that 51 per cent of the total number of deliveries was conducted by the trained midwives of the Unit. A total of 2,698 post-partum visits were given by the Public Health Nurses and Midwives, giving an average visit of 4 per case as against 4·1 in the previous quarter.

Health League.—The intensive village improvement work progressed fairly satisfactorily in the villages in the area. In order to provide cheap, strong and satisfactory windows, experimental windows were attempted in re-inforced concrete and it is gratifying to note that the result have been very satisfactory and it is expected that very soon the village homes will be provided with these.

Health League Activities.

Particulars	Months			Total
	April	May	June	
1. Latrines	*116	*71	*23	*116
2. Soakpits	*26	8	9	*26
3. White-washing and plastering ...	252	195	44	491
4. Introduction of windows ...	58	157	38	253
5. Improvement of cattle-sheds ...	29	9	15	53
6. Removal and closing of manure pits.	9	16	16	41
7. Cleaning of and forming of kitchen, garden and back-yard.	68	30	10	108
8. Closing of other insanitary pits ...	10	...	2	12
9. Road repairs and opening of new roads.	4 furl.	4 fr. 100 ft.	...	1 mile (about)
10. Removal of dilapidated structures and encroachments.	13	21	4	38
11. Removal of rank-vegetation in (carts.)	130	55	30	215
12. Drainage	1 furl.	1 furl.	1 road	2 furl.
13. House-flooring, fencing and roofing	12	4	...	16
14. General cleaning of the villages, etc.	1	3	8	12

* Under construction.

Latrines for Schools.—It was considered desirable to introduce sanitary latrines in the primary schools in the area where it has been decided to do 'health habit training.' The Department has agreed to give the squatting plates for the construction of these latrines and the Unit prepared 20 slabs for this purpose and placed them at the disposal of the Rural Welfare authorities.

Laboratory.—Thirteen blood samples were sent to the Public Health Institute for Wassermann reaction and 55 blood smears were examined at the Unit laboratory for malaria parasites. Thirteen sputum smears for T. B., 15 samples of stools for hookworm ova and 12 urine samples and 3 throat smears for diphtheria were also examined.

During the quarter, 186 patients were given consultation at office and necessary advice was given to them, and 2,963 patients were treated at the office, clinics and villages for minor ailments.

(b) Rural Health Unit, Mandya.

C. RAMASWAMI, L.M.P.,

Officer-in-Charge.

Plague.—Two dead rats were found in one of the official quarters of the Engineering Colony in Mandya

town extension in the month of May and on microscopical examination they were found positive for plague. One dead rat was received from the Sugar Factory Colony, Mandya, in the same month and was found negative for plague.

Immediate precautionary measures were undertaken by the Unit staff to eradicate the epizootic among rats in the Engineering Colony; 35 residential quarters were disinfected; the rat burrows in the 16 blocks of 32 families and in the three officers' bungalows were fumigated with cyanogas; and 91 persons were given anti-plague inoculations. No human cases occurred in the rat-infected area.

There was no report of plague in the unit area during the quarter as against 14 attacks with 13 deaths in the previous quarter.

Small-pox.—The infection of small-pox which started in Halahalli village in the previous quarter with five attacks and nil death, prevailed in the same village in April also. There were three fresh attacks with one death and the infection was brought under control by the end of that month.

Four more villages of the unit area, namely, Holalu, Panakanahalli, Kudargundi and Gejjelgere were next infected with the disease, the sources of infection of the first cases in all these villages being traced to places outside the Unit area. In these villages 23 attacks with 3 deaths were reported.

Intensive vaccination work was taken up as a preventive measure in all the infected villages. In Halahalli, Holalu and Panakanahalli, the infection declined by the end of May. The infection in the remaining two villages is still lurking in a moderate form. In spite of opposition for vaccination work by the villagers on sentiments attempts are being made for vaccination on a mass scale.

Cholera.—In the villages of Tumbakere and Thaggalli in the Unit area and Karadikoppal outside the Unit area, a few attacks of suspected cholera occurred. These villages were immediately visited by the Health Officer. On examination of the patients they were found having acute attacks of diarrhoea and vomiting, this diagnosis being latter confirmed by laboratory examination of faecal samples. The infected houses were disinfected, and the patients were advised regarding food and proper medical-aid.

Vaccination.—The Unit staff performed 1,270 primary and 955 re-vaccinations during the quarter as against 704 primary and 218 re-vaccinations in the previous quarter. Particular attention was paid to the villages infected with small-pox. The staff also conducted a survey for unprotected children and vaccinated the children so found.

Midwives.—The two midwives attached to this Unit paid 163 visits to 29 villages in their jurisdiction. They paid 530 pre-labour, 224 post-labour and 37 miscellaneous visits. They conducted 17 deliveries. They had 850 prenatals under their care during the quarter as against 735 in the previous quarter. Four samples of urine were examined for albumin.

Chlorination of Water Supplies.—The routine work of chlorinating the water supplies of the villages once a quarter was continued. A total of 407 wells were thus chlorinated as against 476 in the previous quarter.

Dog Destruction.—During the quarter, 74 stray dogs (64 in Mandya town and 10 in Maddur town), were destroyed in the Unit area. This work was got done through the agencies of the respective municipalities.

GENERAL SANITATION.

Sivapura (Maddur Town).—In connection with the Mysore State Congress Convention held at Sivapura on the 11th, 12th and 13th of April 1938, the Unit staff paid special attention to the sanitary arrangements. All the wells and other sources of water supply were got chlorinated daily. The hotels and restaurants were frequently inspected and attention was paid to street sweeping and proper disposal of street refuse.

Maddur Town.—In connection with the annual jatra and cattle show held at Maddur town in the third week of April, the Unit staff was engaged in supervising the sanitation of the place under the guidance of the District Health Officer, Mysore.

The Unit staff also gave advice to the Patels and Chairmen of the Village Panchayets during their visits to villages regarding the proper disposal of house-sullage, cleanliness of the houses and of the village proper, removal of manure heaps from the vicinity of the dwelling quarters, and filling up of the pits with earth.

Spleen Survey.—The monthly spleen survey of Dodda-byadarahalli, Nodekoppal and Gejjelgere was conducted regularly during the quarter.

Malaria.—The incidence of malaria in the unit area was fairly on the decrease and its decline was appreciably noted in the ten villages where the control work is being undertaken.

The distribution of totaquine pills to the sufferers from active malaria by the Unit staff was continued. During the quarter 6,750 pills were distributed to 466 patients in 136 villages, and 920 pills were stocked with the Patels, Chairmen of the Village Panchayets, and School Masters for emergency distribution to patients with proper instructions.

Malaria control work in Mandya town was also continued during the quarter, the work being supervised by the Unit staff.

Vital Statistics.—In order to find out the accuracy of reporting of births and deaths by the Patels in the Unit area, a systematic monthly collection of these data was undertaken, as an experiment, by the Unit staff from May. Out of 172 villages with a population of 74,782 in the Unit area, 22 villages with a population of 14,620 were excluded for this purpose as they are far away and would occupy an unnecessary length of time for collection.

The Assistant Sanitary Inspectors visited the villages from the 6th to 16th of every month, collected the information regarding births and deaths that occurred in the previous month by a house-to-house enquiry, verified the Patels' Registers of the respective villages, noting therein the details of the detected cases. It was found that the Patels had reported only 49.3 per cent of births and 6.70 per cent of deaths.

This activity of the Unit will be carried on, on a systematic basis by the Unit staff and by establishing personal contact with the reporting agencies, attempts will be made to rectify this defective reporting.

Health Education.—The Unit staff gave 2,007 taluks on various health subjects to an audience of about 12,000 persons and distributed 200 leaflets on different health subjects to the villagers in their visits to the villages.

Health Exhibition.—In connection with the Mysore District Conference held under the presidentship of the First Member of Council on the 21st May in Mandya town a health exhibition was organised by the staff of the Rural Health Unit and the special malaria control Unit, Mandya. A special feature of the exhibition was the lay-out of a

sanitary and an insanitary village. The exhibition attracted a large crowd from villages in addition to the officers and the delegates from all over the district. The show was extended for a day more for the benefit of the women folk.

Laboratory.—The Unit laboratory made examinations of specimens got from patients in rural areas and those sent by the local medical practitioners. One blood smear for M.P., two smears of urine for albumin and sugar, one faecal sample for ova, four sputum smears for T. B., three spleen and heart smears of dead rats for B. P., were examined. One sample of faeces was sent to the Public Health Institute, Bangalore, for identification of the cholera vibrio.

Conference.—Four conferences of the staff were held during the quarter.

BUREAU OF SANITARY ENGINEERING.

N. KRISHNIENGAR, B.E.,

Sanitary Engineer.

The Bureau worked as in previous quarters in five sections, *viz.*, water supply, drainage works, sanitary fittings and house connections, Bangalore City drainage and bore wells in the State, and in the two Sub-Divisions of Vani Vilas Water Works, Mysore, and the Kolar Gold Field Water Works, Bethamangala.

I. WATER SUPPLY.

The following statement shows the total number of works undertaken by the Bureau and the total expenditure incurred up to end of the quarter on each work.

The places, where works of water supply were in progress are : Madhugiri, Hiriyur, Davangere, Chitaldrug Bowringpet, Vokkaleri, Hassan, Nagamangala, Kalkunike and Melkote. The works at Arkalgud and Saklespur were completed.

The need for any kind of drinking water supply was very keenly felt in most of the towns and villages throughout the State, specially this summer on account of the prolonged spell of hot weather and the failure of the earlier rains.

To guard against this it is considered very necessary to pursue vigorously the present policy of providing water supply schemes to towns and villages even at some extra cost. In places where such supplies are already given, the consumption of water was something extraordinarily heavy, owing to the long-drawn summer weather, and the pumping machinery had to be put under service for a far longer period every day, and it was feared that the machinery may break down in many cases; and if only such had happened the service given would have completely broken down. Almost all the moffusil pumping installations are working with a solitary unit and it is highly desirable that the local bodies go in for a duplicate set very early, so that the sets may be enabled to work alternately and the machine parts examined leisurely and the defects if any rectified in time without having to affect the normal supply. A duplicate set for Hole-Narsipur is ordered. Attempts are being made to provide such duplicate sets to the towns of Davangere and Mandya which are extending rapidly.

In Mysore City there was great anxiety felt specially during the wedding of the Prince and the Birthday Festivities, as the consumption exceeded 5 million gallons per day and all the units were working at full load for 24 hours. Proposals for placing the city system on a safe basis are already submitted and as a first instalment in this direction, orders have been placed for two extra pumps and metering the city connections has been taken up.

Water supply works were under progress in various stages during the quarter April-June, 1938.

No.	Name of Work	Amount of estimate	Outlay up to end of June 1938	Remarks
		Rs.	Rs.	
1	Water supply behind Electric Colony at Mandya.	1,410	1,286	Completed.
2	Foundation and erection for deep well pump to bore-well at Dobb's Bungalow, Tumkur.	1,890	1,841	Do
3	Arkalgud Water Supply.	6,000	4,111	Do
4	Providing and erecting a deep well pump to the well near Jail Extension at Tumkur.	3,500	2,273	
5	Sinking the existing 8" Main to the New C. I. Main on both sides of Doddabathi tank for Harihara Water Works.	2,430	1,525	
6	Constructing Settling Tank and Filter at Harihar.	45,175	12,085	
7	Laying Pipe Line to Outer Circle of White Field.	3,060	1,482	
8	Hiriyur Water Supply Improvement.	14,530	8,329	
9	Nagamangala Water Supply.	11,690	7,205	
10	Shikarpur Water Supply.	21,850	10,678	
11	Thalगतपुर Water Supply.	1,089	395	Do
12	Vokkaleri Water Supply.	202	1,167	
13	Yediyur Water Supply	1,050	431	Do
14	Constructing and incubating room in the Public Health Institute, Bangalore.	945	396	
15	Constructing dwelling Houses for Adikarnatakas at Chitaldrug.	4,056	1,434	
16	Installing electric pump to the bore-well at Bowringpet.	7,560	4,440	

No.	Name of Work	Amount of estimate	Outlay up to end of June 1938	Remarks
		Rs.	Rs.	
17	Improvements of water supply to Madhugiri town.	6,370	4,457	
18	Sinking a Bore-well at Chennagiri town.	...	756	
19	Bore-well at Alur ...	...	500	
20	Shiralkoppa ...	...	600	
21	Improving Water Supply to Malur Town.	2,616	324	
22	Improving Water Supply at Krishnarajanagar.	5,300	4,822	
23	Bhadravati Water Supply.	4,725	2,544	
24	Water Supply to Hoskote Town.	24,100	14,939	
25	Water Supply to Arkalgud.	6,300	6,113	
26	Extending Pump Houses at Harihar.	14,815	13,525	
27	Ganjam Water Supply	19,988	20,257	Completed.
28	Improving Arsikere Water Supply.	33,110	27,438	
29	Water Supply to Jatra at Chunchankatte.	7,222	6,252	
30	Closepet Water Supply	25,850	26,766	Do
31	Chintamani ...	24,806	22,198	Do
32	White-field ...	19,824	16,351	
33	Kunigal ...	10,688	12,371	Do
34	Removing the sand and stainer completely overhauling the filters at Bethamangala.	5,000	3,185	
35	Renewing the damaged of right waste weir of Bethamangala tank.	950	1,063	Do
36	Permanent installation of chlorine plant at the Mines Reservoir, Champion Reefs, K. G. F.	2,550	2,499	Do
37	Purchasing a Lathe and Drilling Machine and Cylinder for K. G. F. Water Works.	...	1,476	

No.	Name of Work	Amount of estimate	Outlay up to end of June 1938	Remarks
38	Giving Water Supply to Biligiri Rangana Hills.	2,990	3,779	
39	Laying 2½" × 2" Sub-main to give ½" water connection to Model Houses towards Karchatti Road, Mysore.	6,514	1,299	
40	Giving additional tap and installing Hydrants cattle trough at Chunchankatte.	3,130	2,857	
41	Giving additional water tap at Hemagiri village	2,045	1,755	
42	Replacing existing two 8" rising main by a 14" C. I. Main from Filter bed to High Level Reservoir, Mysore.	63,50	2,695	
43	Laying 6" C. I. Main erecting tank 40,000 gallons capacity for improving Narasimharaja Mohalla, Mysore.	21,055	12,067	
44	Laying 3" × 1½" Sub-main to give water supply to every one of model houses.	6,514	2,561	
45	Fixing meters in Mysore City.	25,000	20,184	
46	Providing fire hydrants to the Railway Central Store Yard, Mysore.	7,038	1,919	
47	Water Supply to Saklespur.	29,125	31,606	Completed.
48	Purchasing 2 tons of Travelling Crane Erection of Engine Pump etc., at Harihar for Davangere Water Works.	15,000	14,014	

No.	Name of Work	Amount of estimate	Outlay up to end of June 1938	Remarks
49	Viduraswatha Jatra Works.	3,630	2,498	Completed
50	Water Supply to Melkote town.	10,000	8,241	
51	Improving Water Supply to Distribution System at Mysore.	45,000	34,633	
52	Water Supply to Attibele.	8,000	6,216	Do
53	Improving Water Supply to Chitaldrug Town.	20,700	17,938	
A. M. OF WATER SUPPLY.				
1	Krishnarajendra Water Supply, Shimoga.	23,997	17,550	
2	K. G. F. ...	82,500	94,771	
3	Robertsonpet and Andersonpet.	28,700	32,288	
4	A. M. of Vani Vilas Water Works.	1,75,920	1,56,181	
5	Arkalgud Water Supply	600	238	
6	A. M. of Road Watering in Mysore.	2,400	2,134	
7	A. M. of Hole-Narsipur	4,124	5,284	
8	French-Rocks ...	1,912	615	
9	Channapatna ...	4,725	4,123	
10	Ghati Subrahmanyam	693	662	
11	A. M. of Konanur ...	2,813	1,972	
12	Kolar ...	4,156	4,801	
13	Chitaldrug ...	2,807	2,845	
14	Dodballapur ...	3,343	3,101	
15	Santhemarahalli ...	1,233	978	
16	Seringapatam ...	3,150	514	
17	Krishnarajanagar ...	2,493	2,695	
18	Arsikere ...	3,610	3,177	
19	Kunigal ...	2,025	1,683	
20	Mandya ...	3,000	1,942	
21	House lines for Voddarpalya.	500	486	
22	A. M. of Fig Cultivation at Ganjam.	1,800	756	
23	Closepet ...	2,644	2,003	
24	Chikmagalur ...	2,652	932	

II. DRAINAGE.

(a) *Bangalore City Drainage*.—Details for the preparation of the comprehensive scheme are being considered including surveying of portions of the City recently developed and also taking fresh levels wherever wanted, and checking the levels of the existing sewer lines.

Five out of 13 estimates were returned with observations having been sanctioned by Government aggregating to Rs. 3,50,760; action was taken to start the construction of manholes in the old City portion lying between the Cubbonpet area and Narasimharaja Road and between the Avenue Road and the Sir K. P. Puttanna Chetty Town Hall.

Of the remaining estimates four were revised as per instructions of the Chief Engineer.

The question of utilising the avoid sewer line laid up to its present terminal and allowing the sewage to flow in it and further into the main flood water drain, was under consideration of the Bangalore City Drainage Committee.

(b) *Other Drainage Works*.—During the quarter drainage works in Hassan, Kolar, Jagalur, Anekal, Sarjapur, Nanjangud, Bannur, Chamarajanagar, Closepet, Channapatna, Goribidnur, Dodballapur and Pavagada were under progress and the Government given grants were fully worked out. The drainage works at Chikballapur, Chintamanai, Magadi, and Arsikere were completed.

Drainage Project for French-Rocks was prepared.

Tumkur Drainage Works.—The construction of street drains are nearing completion. The expenditure under this items was about Rs. 25,000. The construction of main drains is taken up.

Drainage Works under progress in the quarter April June, 1938 :—

No.	Name of Work	Amount of estimate	Outlay up to end of June 1938	Remarks
1	Tumkur Drainage Works.	1,54,000	24,932	
2	Closepet ...	1,965	826	
3	Nanjangud ..	8,015	4,785	
4	Jagalur ...	13,000	7,678	
5	Anekal ...	2,350	1,236	

No.	Name of Work	Amount of estimate	Outlay up to end of June 1938	Remarks
6	Channapatna ...	2,350	2,182	
7	Kankanhalli ...	1,206	886	
8	Chikballapur ...	4,870	3,855	
9	Kolar ...	6,722	2,571	
10	Hassan ...	17,000	7,313	
11	Goribidnur ...	5,235	1,102	
12	Sarjapur ...	1,625	820	
13	Bannur ...	1,873	829	
14	Pavagada ...	4,512	1,133	
15	Chamarajanagar ...	5,055	650	
16	Dodballapur ...	6,250	5,949	
17	Arsikere ...	12,000	8,664	
18	Chintamani ...	3,000	2,506	
19	Dodballapur 2nd stage.	12,805	4,389	
20	Laying main sewers and outfall works, Bangalore.	1,84,705	2,06,923	
21	Laying street sewers to sub-main No. 1.	76,680	72,116	

Of the total of 191 samples of water collected 52 were examined bacteriologically and 139 chemically.

III. SANITARY FITTINGS AND INSTALLATIONS.

The progress on works both in Bangalore and Mysore Cities are as noted below :—

Bangalore Works.

1. Old Public Offices.—

- (a) Providing sanitary fittings to the lavatory at the office of the General Secretary—Estimate Rs. 553—Executed Rs. 548.
- (b) Providing sanitary fittings to Development Secretary's old room converted to Princes' Administrative Training Room, Estimate Rs. 710—Executed Rs. 700.
- (c) Providing sanitary fittings to the Development Secretary's present room, Estimate Rs. 556, Executed Rs. 550.
- (d) Providing sanitary fittings to the Local Self-Government Secretary's room—Estimate Rs. 360, Executed Rs. 361.
- (e) Improving the underground latrines near the Band Stand in Cubban Park—Estimate Rs. 800, Executed Rs. 752.

2. Deviation of stoneware pipe sewers near the officer's quarters at the Mysore Lancers. The work was completed—Estimate Rs. 386—Executed Rs. 385.

3. Providing sanitary fittings and water supply arrangements to the quarters of the Superintendent, Serum Institute. The work was completed—Estimate Rs. 693, Executed Rs. 717.

4. Providing sanitary fittings and drainage arrangements to Shanker Mutt, Bangalore. The work was completed, Estimate Rs. 700—Executed Rs. 864.

5. *Victoria Hospital*.—Providing sanitary fittings to the remaining wards 3, 4, 7 and 8 were completed before June end. Executed Rs. 1,662—Estimate Rs. 4,055.

Mysore Works.

1. *Krishnarajendra Hospital*.—

(a) Providing sanitary fittings to the new special ward. The work was completed but as later glazed tiles were ordered to be fixed, the sanitary fittings were removed. Estimate Rs. 1,498, Executed Rs. 463.

(b) Providing sinks and waste water connection and drainage arrangement to New Kitchen. The work was completed and handed over. Estimate Rs. 1,000, Executed Rs. 972.

(c) Providing lavatory basin etc., in the Consulting Room of Resident Medical Officer. The work was completed. Estimate Rs. 126—Executed Rs. 122.

2. *Medical College*.—

(a) Deviating underground pipe drain at the Anatomy Block. The work was completed to enable building work to proceed.

(b) Providing lavatory fittings with gas taps in the pharmacology block of Medical College. The work was completed.

3. *Law Court Buildings*.—Providing sanitary fittings with drainage arrangements to the Chambers of Additional Sub-Judge. The work was completed and handed over.

4. *Maharaja's College Hostel*.—Three latrines of the ordinary type were converted to flush type with automatic flush arrangements.

5. *Maharaja's College*.—Porcelain urinals with necessary connections were installed for the general latrine.

6. *Maharaja's High School*.—The general latrine and urinals were improved to automatic flushing type.

Shimoga Works.

McGann Hospital.—Providing sanitary fittings to the extension of Maternity Block was done.

Hassan Works.

Sri Chamarajendra Hospital.—Sanitary installation with drainage and sewage disposal arrangements. The drainage work was started and eight manholes built.

IV. TOWN PLANNING AND SURVEYS.

Plans for town improvements of Hole-Narsipur and Anekal were prepared during the quarter.

Layout plans of Kengeri and Goribidnur and Shandy Maidan at Sira town were also prepared and submitted.

Village Surveys.—For the Closepet Health Training Centre, the following villages in Channapatna and Closepet Taluks were surveyed: Kalli Hosur, Thittumaranhalli, Patlu, Mainakanahalli, Basavanapura, Sanga Basavana Doddi, Kethohalli and Madapura. In all 36 villages have been surveyed and 31 village maps have been prepared, of which 21 have already been supplied to the Secretary Closepet Rural Reconstruction Centre.

Dwelling Houses for Adikarnatakas at Chitladrug.—Type design 2 A was adopted and six blocks were under construction.

V. BORE-WELLS.

During the quarter four bore-wells were completed and six new ones were started, the number of drills under operation being 14. The progress of work done is described in the following statement:—

No.	Place, Taluk	Depth bored		Total depth bored	Remarks
		In soil	In rock		
1	Chinkurli, Krishnarajpet	18'	82'	100'	Work completed. Yield found to be 1,500 gls. per hour.
2	Nuggehalli, Channaraya-patna.	8'	149'	157'	Work under progress.
3	Kulagurki, Kolar ..	15'	230'6"	245'6"	Work completed and the drill shifted. Yield 100 gallons per hour.
4	Dodballapur Town ...	25'	176'	210'	Work in progress Bore-well has been blasted.
5	Lakkavalli, T. P. No. 74, Tarikere.	...	102'	102'	Work completed and drill shifted to Sagar.

No.	Place, Taluk	Depth bored		Total depth bored	Remarks
		In soil	In rock		
6	Belagola, Mysore ...	38'	187'	225'	Blasting work will have to be taken up.
7	Anekal No. 4 ...	9'	73'6"	82'6"	Work is in progress.
8	Hudi, Bangalore ...	89'	108'	197'	Blasted the bore-well and cleaning work is going on.
9	Harnahalli, Shimoga ...	10'	173'	183'	Work in progress (since stopped for want of further deposit).
10	Oorgaum, Kolar Gold Field.	30'	169'	199'	Work in progress.
11	Mrs. E. Cooke's Estate, Bangalore.	90'	15'6"	115'6"	Work closed temporarily.
12	Virajpet Municipality No. 3, Coorg.	43'	112'	155'	Work completed. Yield found to be 950 gls. per hour.
13	Antarasanthe, Heggaddevankote.	10'	115'	125'	Work in progress.
14	Alur, Hassan ...	65'	32'	97'	Work in progress.
15	Channagiri Town, (Shimoga District).	...	...	...	Drill is under erection. Work since started.
16	Jog Falls Dam site, Sagar.	...	16'	16'	Work has been stopped on account of floods.
17	Tubigere, Bangalore ...	78'	46'6"	124'6"	Work is in progress.
18	Bettadapura, Pariyapatna	...	...	...	Drill is under erection.
19	Arakere, Seringapatam.	...	20'	20'	Work is in progress.

VI. BORE-HOLE LATRINES.

During the quarter 12 bore-holes for latrines were excavated as detailed below :—

Spice College, Whitefield Road ...	10 bore-holes.
Imperial Dairy Farm, Bangalore ...	2 ,,

CENTRAL STATISTICAL OFFICE.

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

Superintendent.

(a) Registration Area.

The new system of centralization of compilation work has worked satisfactorily. The following figures indicate that, on the average, more than 80 per cent of the returns are being received from the villages. So far as the municipalities are concerned nearly 100 per cent of the returns are being received :—

	Per cent of returns received						Average per month
	Jany.	Feby.	March	April	Ma	June	
<i>Shimoga District (1,713).</i>							
Birth ...	86.2	88.9	86.9	87.0	85.5	86.1	86.7
Death ...	86.6	89.1	86.8	87.8	85.9	85.6	87.0
<i>Bangalore District (2,472).</i>							
Birth ...	82.3	80.8	80.8	77.8	79.6	78.7	80.0
Death ...	82.1	81.1	79.9	78.1	78.7	78.1	79.7

There is, however, some variation from taluk to taluk in the completeness of the returns sent, as shown in the following statement:—

**Returns of Births and Deaths received in each month from
January 1, 1938.**

Taluks	No. of populated villages	January		February		March	
		B	D	B	D	B	D
1	2	3	4	5	6	7	8
Bangalore District...	2,472	2,036	2,031	1,997	2,006	1,998	1,976
1 Anekal ...	183	150	152	151	155	157	158
2 Bangalore ...	394	315	317	350	344	328	324
3 Channapatna ...	130	119	120	122	122	118	113
4 Closepet (Sub) ...	118	115	116	118	118	113	114
5 Devanhalli ...	241	151	145	145	138	148	149
6 Dodballapur ...	271	235	240	224	220	225	224
7 Hoskote ...	317	223	215	198	212	201	206
8 Kankanhalli ...	234	220	218	202	205	216	205
9 Magadi ...	299	256	250	243	244	249	245
10 Nelamangala ...	285	252	258	244	248	243	238
Shimoga District ...	1,713	1,476	1,484	1,522	1,527	1,489	1,487
1 Channagiri ...	186	164	169	157	156	161	157
2 Honnali ...	145	129	131	128	133	128	127
3 Kumsi ...	66	58	57	58	54	53	53
4 Nagar ...	199	192	194	200	198	193	192
5 Sagar ...	252	236	236	247	248	243	240
6 Shikarpur ...	136	125	124	126	125	124	125
7 Shimoga ...	231	163	163	168	169	153	158
8 Sorab ...	255	186	187	224	226	231	225
9 Tirthahalli ...	243	223	223	219	218	208	210

Taluks	April		May		June	
	B	D	B	D	B	D
	9	10	11	12	13	14
Bangalore District...	1,924	1,933	1,969	1,945	1,945	1,933
1 Anekal ...	143	141	158	156	155	148
2 Bangalore ...	324	325	328	325	326	320
3 Channapatna ...	109	115	114	108	105	105
4 Closepet (Sub) ...	115	115	116	116	108	116
5 Devanhalli ...	142	145	146	144	141	146
6 Dodballapur ...	218	215	214	213	220	222
7 Hoskote ...	195	198	199	200	210	202
8 Kankanhalli ...	199	203	216	210	215	208
9 Magadi ...	240	237	238	236	230	240
10 Nelamangala ...	239	239	240	237	235	226
Shimoga District ...	1,490	1,504	1,464	1,472	1,475	1,467
1 Channagiri ...	160	163	164	164	151	152
2 Honnali ...	128	131	132	132	129	125
3 Kumsi ...	60	60	59	60	58	59
4 Nagar ...	202	203	192	194	196	197
5 Sagar ...	236	233	225	224	222	220
6 Shikarpur ...	124	124	125	123	125	125
7 Shimoga ...	155	154	135	140	149	146
8 Sorab ...	220	224	222	229	226	227
9 Tirthahalli ...	205	212	204	206	219	216

The compiled figures in respect of these taluks and the municipalities therein, and the Cities of Bangalore and Mysore are given in Tables 1 to 6, 5 (a) and 6 (a) being the statements in respect of the two districts of Shimoga and Bangalore for the first quarter of the current year.

Births, Still-births and Infant Mortality.

In what may be called the *registration area* consisting of rural and urban areas of Shimoga and Bangalore districts and the Cities of Bangalore and Mysore, with an estimated population of 18,72,998, the number of live-births registered was 11,892 in the quarter under report, giving a birth-rate of 25·4. The rates for the urban and rural areas are given in the following table and it will be seen that as a result of the new system, both in urban and rural areas, the birth-rates registered are not less than 20 per 1,000 of population. This fact indicates that the reporting has improved considerably in the registration area:—

Area	Population as on July 1, 1938	Born alive	Born dead	No. of plural births	No. of Parturition cases
1	2	3	4	5	6
BANGALORE DISTRICT.					
Municipalities ...	79,271	528	14	2	540
Rural area ...	9,17,144	4,725	61	16	4,770
SHIMOGA DISTRICT.					
Municipalities ...	66,278	603	39	4	638
Rural area ...	4,73,960	2,790	62	15	2,837
CITIES.					
Bangalore City ...	2,12,080	1,914	95	10	1,999
Mysore City ...	1,24,265	1,332	35	5	1,362
Total ...	18,72,998	11,892	306	52	12,146

Area	Maternal deaths		Birth rate	Infant deaths	Infant mortality rate	Deaths	Death rate
	Number	Rate					
	7	8	9	10	11	12	13
BANGALORE DISTRICT.							
Municipalities ...	7	12·9	26·6	25	47·3	241	12·2
Rural area ...	59	12·3	20·6	285	60·3	2,090	9·1
SHIMOGA DISTRICT.							
Municipalities ...	12	18·7	36·4	46	76·3	246	14·8
Rural area ...	60	21·0	23·5	259	92·8	1,748	14·8
CITIES.							
Bangalore City ...	20	10·0	36·1	266	139·0	1,247	23·5
Mysore City ...	11	8·0	42·9	148	111·1	742	23·9
Total ...	169	13·9	25·4	1,029	86·5	6,314	13·5

There were 52 plural births reported in this area in respect of 12,146 parturition cases, showing that 99·6 per cent of the mothers give birth to single births and that a negligible percentage of 0·4 exhibit a tendency towards plural births.

During the quarter 306 still-births were registered as against 11,892 live-births, the percentage of still-births being 2·6 per 100 live births.

Out of 12,146 mothers who gave birth to 12,198 births (including still-births), 169 died of child-birth, giving a maternal mortality of 13·9 per 1,000 births.

So far as infant mortality is concerned the rate of 86·5 per 1,000 live births is too low a rate to be true. Except in the cities, where also it is low, the reported infant mortality in the rural and urban areas of Shimoga and Bangalore Districts is very low. In Bangalore District urban area, it is the lowest, *viz.*, 47·3. The reporting is obviously not satisfactory in any area in respect of infant deaths. This is reflected in the death-rates discussed below.

Deaths.

During the quarter, 6,314 deaths from all causes were registered in the registration area, giving a death-rate of 13·5. Obviously, this is still rather low. The rate for the rural area of Bangalore District is too low to be true, *viz.*, 9·1. It may be inferred, therefore, that, although the reporting has improved in all directions, as the reporting of infant mortality remains still unsatisfactory, the registered death-rates are low. This can certainly improve gradually as a result of frequent inspections and propaganda. Detailed instructions have already been issued in this behalf.

Marriages.

In the case of marriages, the reporting is optional in rural areas and minor municipalities, and compulsory in town municipalities in the District of Shimoga and the Cities of Bangalore and Mysore.

As per reports received, the number of marriages celebrated in the first half-year of the current year in the registration area was 7,920 as shown below :—

Area	Popula- tion as on July 1, 1938	No. of Marriages reported		
		Jan.	Feb.	Mar.
1	2	3	4	5
BANGALORE DISTRICT.				
Municipalities	79,271	5	11	29
Rural area	9,17,144	22	48	256
SHIMOGA DISTRICT.				
Municipalities	66,278	6	17	13
Rural area	4,73,960	14	51	74
CITIES.				
Bangalore City	2,12,080	0	12	41
Mysore City	1,24,265	11	21	38
Total	18,72,998	58	160	451

Area	No. of Marriages reported		
	April	May	June
	6	7	8
BANGALORE DISTRICT.			
Municipalities	32	100	113
Rural area	487	1,768	1,422
SHIMOGA DISTRICT.			
Municipalities	24	152	109
Rural area	106	1,290	896
CITIES.			
Bangalore City	63	134	170
Mysore City	40	124	221
Total	752	3,568	2,931

Although, May and June are the months in which marriages usually take place in large numbers it is obvious that the number of marriages reported so far is too low. Efforts are being made to make the reporting as complete as possible.

(b) **Non-Registration Area.**

(Statistics for Quarter, January-March 1938.)

In the non-registration area, *viz.*, the Districts of Chitaldrug, Hassan, Kadur, Kolar, Mysore and Tumkur and the municipalities in these districts, the compilation of births and deaths is being done in the Offices of the Amildars and Deputy Commissioners as heretofore. Even optional marriage registration is not introduced in this area. In respect of this area statistics for the current quarter are not available, and even those of the previous quarter are only provisional figures and the department is not aware as to the number of villages and towns that have sent in returns and the regularity with which they are being sent.

The following are the reported figures for the quarter January-March, 1938, including those of the registration area for the same period.

	Jan.-March 1938.	Oct.-Dec. 1937.	Jan.-March 1937.
Births (excluding still-births) ...	35,833	38,935	31,960
Still-births ...	716	677	516
Deaths— all causes (excluding still-births) ...	26,178	29,311	25,317
Plague ...	1,748	2,126	409
Small-pox ...	183	183	398
Cholera ...	178	165	2,031
Malaria ...	8,591	9,645	7,884
Typhoid ...	1,468	1,518	1,264
Other Fevers ...	3,098	3,280	2,767
Dysentery and Diarrhoea	1,368	1,826	1,512
Respiratory Diseases ...	1,488	1,296	1,359
Consumption ...	1,170	1,393	1,122
Leprosy ...	219	268	176
Child-birth ...	656	636	588
Suicide ...	51	53	55
Drowning ...	177	239	191

Jan.-March 1938. Oct.-Dec. 1937. Jan.-March 1937.

Wounds and Accidents...	208	177	180
Killed by Wild Beasts ...	18	17	15
Snake-bite ...	34	44	26
Rabies ...	21	31	27
All other causes ...	5,502	6,414	5,313

Births, Still-births, Infant Deaths.—During the quarter 35,833 live births were reported giving a birth-rate of 21·0 as against 23·0 in the preceding quarter. The highest birth-rate was 26·8 for Shimoga District and the lowest *viz.*, 15·3, was reported in Mysore district. Bangalore City had a rate of 39·5, Mysore City 40·1 and Kolar Gold Field 62·8.

As against 35,833 live births 716 still-births were reported, the number of still-births per 100 live-births being 2·0. This percentage was highest (3·2) in Shimoga District and lowest (0·8) in Mysore District. In Bangalore City it was 6·4, in Mysore City 4·0 and in Kolar Gold Field 0·7.

The number of infant deaths under one year of age was 3,895 in the quarter under report, giving an infant mortality rate of 108·7 per 1,000 live births. The rate was highest (127·0) in Kolar District and lowest (88·0) in Bangalore District. Bangalore City had a rate of 187·3, Mysore City 129·2 and Kolar Gold Field 152·4 respectively.

Deaths.—During the quarter 26,178 deaths from all causes were reported. The computed death-rate was 15·3 per mille of population as against 17·3 in the previous quarter. The death-rate was highest (24·6) in Shimoga District and lowest (10·7) in Tumkur District. Bangalore City had a rate of 24·4, Mysore City 25·8 and Kolar Gold Field 32·9.

(c) Epidemic Diseases.

In the quarter under report 35 attacks with 26 deaths from plague in 11 places, 175 attacks with 20 deaths from small-pox in 22 places, and 4 attacks with 3 deaths from cholera in 2 places were reported as detailed in the accompanying statement.

Attacks and Deaths from Plague, Small-pox and Cholera in the Districts and Cities of the Mysore State during the quarter April-June 1938.

District or City	Plague		Number of Places affected	Population affected	Small-pox		Number of Places affected	Population affected	Cholera		Number of Places affected	Population affected
	A.	D.			A.	D.			A.	D.		
Bangalore (Excluding City) ...	1	1	1	172	...	...	...	...	...	...	...	...
Chitaldrug ...	...	...	...	...	64	1	6	5,327	...	...	...	...
Hassan ...	4	4	3	7,147	...	...	...	...	3	3	1	274
Kadur ...	...	...	...	...	2	0	1	...	...	...	...	...
Kolar (Excluding K. G. F.) ...	7	4	2	1,767	...	...	...	...	...	...	...	...
Mysore (Excluding City) ...	6	5	3	3,795	10	0	2	1,347	1	0	1	962
Shimoga ...	0	1	1	2,440	20	3	5	30,861	...	...	...	...
Tumkur ...	...	...	...	...	21	2	5	5,434	...	...	...	...
Mysore State (Excluding Cities)	18	15	10	15,321	117	6	19	42,969	4	3	2	1,236
Bangalore City ...	...	...	...	...	55	14	1	2,12,080	...	...	...	...
Mysore City ...	...	...	...	...	1	0	1	1,24,265	...	...	...	...
Kolar Gold Fields ...	17	11	1	83,201	2	0	1	83,201	...	...	...	...
Mysore State (including Cities) ...	35	26	11	98,522	175	20	22	4,62,515	4	3	2	1,236

Plague.—As compared with 657 attacks with 373 deaths in the previous quarter only 35 attacks with 26 deaths occurred in the State showing a complete decline in the incidence of plague. The number of places affected was 11 as against 166 in the previous quarter. Bangalore City and Mysore City were free from this disease whilst Kolar Gold Field reported 17 attacks with 11 deaths.

Small-pox.—The decline of small-pox reported in the previous quarter was continued in the current quarter also. Out of 175 attacks with 20 deaths reported 55 attacks with 14 deaths occurred in Bangalore City, 1 attack in Mysore City and 2 attacks in Kolar Gold Field.

Cholera.—As against 26 attacks with 3 deaths from cholera in 4 places in the previous quarter 4 attacks with 3 deaths were reported in 2 places in the present quarter, of which 3 attacks with 3 deaths occurred in one place in Hassan District and 1 attack in one place in Mysore District.

(d) Parturition Statistics.

In estimating the true rate of maternal mortality the statistics of parturition cases conducted in maternity hospitals and female dispensaries in the different parts of the State were collected as shown in the accompanying statement.

Parturition Cases conducted in Maternity Hospitals and Female Dispensaries.

No.	Place	Institution	Number of Labour cases conducted	Number of Maternal Deaths
1	Bangalore City	Vani Vilas Hospital	1,220	21
2	Mysore City	Do	532	6
3	Do	Holdsworth Memorial Hospital.	154	2
4	Kolar Gold Fields	Maternity Hospital	370	2
5	Anekal	Female Dispensary	3	...
6	Channapatna	Do	27	...
7	Chikballapur	Do	7	...
8	Chikmagalur	Maternity Hospital	67	4
9	Chintamani	Female Dispensary	4	...
10	Chitaldrug	Do	46	1
11	Davangere	Maternity Hospital and Female Dispensary.	127	1

No.	Place	Institution	Number of Labour cases conducted	Number of Maternal Deaths
12	Hassan	Female Dispensary and Maternity.	27	2
13	Do	R. F. Memorial Hospital.	38	2
14	Hebbal	Female Dispensary	3	...
15	Hole-Narsipur	S. N. Maternity Hospital	55	...
16	Hunsur	Female Dispensary	4	...
17	Kolar	Female Dispensary	30	3
18	Do	E. T. C. Memorial Hospital.	20	...
19	Koppa	Female Dispensary	7	...
20	Krishnarajnagar	Female Dispensary and Maternity.	56	...
21	Mudgere	Combined Dispensary	3	...
22	Mandagadde	Maternity Hospital	12	1
23	Nanjangud	Female Dispensary	77	1
24	Sagar	Do	7	...
25	Saklespur	Women and Children Hospital.	22	...
26	Shimoga	Maternity Hospital	88	1
27	Sira	Female Dispensary	34	...
28	Tarikere	Do	96	1
29	Tiptur	Maternity Hospital	27	...
30	Tirthahalli	Do	12	3
31	Tumkur	Do	88	5
Total (Mysore State)			3,263	56

As compared with 3,124 labour cases with 53 maternal deaths in the previous quarter 3,263 parturition cases with 56 maternal deaths were reported during the quarter. The computed maternal mortality was 17·2 per 1,000 births as against 17·0 in the preceding quarter.

TABLE I.

Detailed statistics of births collected under the new system in each division of the Cities of Bangalore and Mysore in the quarter April to June 1938.

Cities	Births			Permanent residence of mother		Community of mother											
	Born alive		Born dead	Place of Birth		Outside	Lingayet	Vokkaliga	Vaisya	Kshatriya	Brahmin	Adikarnataka	Musliman	Jain	Christian	European	Others
	M	F		Total													
BANGALORE CITY.																	
I Division	42	32	74	3	72	2	1	2	3	3	7	18	21	1	...	...	23
II "	44	51	95	1	96	...	7	1	8	14	4	4	11	...	...	...	53
III "	54	58	112	2	114	...	1	3	6	6	19	...	6	...	...	...	59
IV "	29	27	56	2	54	2	1	3	...	8	...	...	8	3	...	...	30
V "	14	12	26	2	25	1	...	1	...	...	...	...	10	...	...	...	13
VI "	61	44	105	1	104	2	2	4	...	25	6	...	29	1	...	...	20
VII "	40	44	84	2	84	...	2	5	...	21	...	...	7	3	...	...	39
VIII "	53	43	96	2	96	2	2	8	...	51	...	...	6	1	...	...	28
IX "	45	35	80	1	79	2	...	5	2	25	...	...	3	...	...	...	29
Vani Vilas Hospital	560	568	1,128	79	1,205	1	39	35	28	225	28	...	141	3	60	...	570
Maternity Home	31	27	58	...	58	...	7	3	9	20	...	...	...	1	3	...	14
Total	973	941	1,914	95	1,987	12	61	58	60	402	106	242	7	72	...	...	878
MYSORE CITY.																	
Lashkar	118	124	242	1	232	10	10	11	5	7	37	85	3	14	...	...	61
Mandi	68	51	119	1	111	8	...	1	5	2	11	33	...	1	...	...	56
Devaraja	38	23	61	...	55	6	...	7	1	14	3	5	1	...	...	...	19
Chamaraja	78	88	166	...	135	27	4	...	1	50	48	2	1	1	...	...	19
Krishnaraja	36	34	70	2	71	...	1	...	2	23	...	11	...	...	...	...	29
Fort	8	5	13	...	12	1	1	...	1	6	...	4	...	...	...	...	1
Nazarbhad	21	21	42	...	39	3	...	...	2	3	1	7	...	...	...	...	16
Palace Dispensary	...	2	2	...	2	...	...	...	1	1	...	...	...	...	...	...	...
Vani Vilas Hospital	238	239	477	24	495	2	17	13	13	145	30	53	1	26	...	...	153
Sawar and Barr	...	4	4	...	3	1	...	...	1	...	...	...	...	1	...	...	2
Lines.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Holdsworth Memorial Hospital.	84	52	136	7	122	20	3	3	2	19	11	44	1	14	2	...	31
Total	689	643	1,332	35	1,294	78	36	149	34	270	141	244	7	57	2	...	387

Detailed statistics of deaths collected under the new system in each Division of the Cities of Bangalore and Mysore in the quarter April to June 1938.

	Deaths		Permanent residence of the deceased		Conjugal condition at time of death						Community										
	M	F	Total	Place of death	Outside	Single	Married	Widowed	Divorced	Not stated	Lingayat	Vokkaliga	Vaisya	Kshatriya	Brahmin	Adikarna-taka	Mussalman	Jain	Christian	European	Others
BANGALORE CITY.																					
I	27	38	65	65	...	34	19	12	...	...	...	...	...	...	...	...	...	...	...	...	...
II	65	75	140	140	...	74	37	24	5	...	...	...	...	...	...	...	...	...	...	...	...
III	102	110	212	212	...	130	80	2	...	...	...	...	...	...	...	...	...	...	...	...	...
IV	51	69	120	120	...	77	29	14	...	...	...	...	...	...	...	...	...	...	...	...	...
V	28	41	69	69	...	30	21	15	...	...	...	...	...	...	...	...	...	...	...	...	...
VI	45	56	101	101	...	59	24	18	...	...	...	...	...	...	...	...	...	...	...	...	...
VII	37	38	75	75	...	46	16	13	...	...	...	...	...	...	...	...	...	...	...	...	...
VIII	26	27	53	52	...	24	13	16	...	...	...	...	...	...	...	...	...	...	...	...	...
IX	27	35	62	62	...	29	20	13	...	...	...	...	...	...	...	...	...	...	...	...	...
Vani Vilas Hospital	63	57	120	119	...	98	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Victoria Hospital	102	58	160	160	...	4	...	...	156	...	...	...	...	...	...	...	...	...	...	...	...
E. D. Hospital	20	8	28	28	...	13	7	8	...	...	...	...	...	...	...	...	...	...	...	...	...
Mental Hospital	13	8	21	21	...	8	10	1	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Martha's Hospital	11	10	21	21	...	7	12	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	617	680	1,297	1,245	2	633	313	138	7	156	25	49	89	31	152	68	174	7	42	2	656
MYSORE CITY.																					
Laskar Mohalla	60	61	121	121	...	50	49	22	...	...	...	...	...	...	...	...	...	...	...	...	...
Mandy do	39	58	97	97	...	38	36	23	...	...	...	...	...	...	...	...	...	...	...	...	...
Devaraj do	20	24	44	44	...	27	9	7	1	0	...	...	...	...	...	...	...	...	...	...	...
Chamaraj do	47	60	107	107	...	71	23	13	...	...	...	...	...	...	...	...	...	...	...	...	...
Krishnaraj Mohalla	49	65	114	114	...	44	46	24	...	...	...	...	...	...	...	...	...	...	...	...	...
Fort	7	12	19	19	...	7	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Nazarbad	20	16	36	36	...	17	14	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Vanivilas Hospital	13	14	27	26	...	21	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Palace Dispensary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Krishnarajendra Hos-pital	84	29	113	113	...	22	16	1	...	74	...	...	...	...	...	...	...	...	...	...	...
Epidemic Hospital	15	6	21	21	...	7	3	4	...	...	...	...	...	...	...	...	...	...	...	...	...
P. K. T. Sanatorium	4	2	6	6	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sawar and Barr. Line	2	3	5	5	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Holdsworth's Memorial Hospital.	12	20	32	32	...	22	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	872	870	742	741	1	329	220	107	1	85	17	53	9	4	98	74	144	4	14	1	324

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	1	1	6	5	13	14	..	4	3	5	4	3	3	16	65
II do	6	6	9	9	30	27	10	3	7	9	6	12	10	26	140
III do	3	3	16	14	36	70	8	8	5	24	4	11	12	34	212
IV do	3	7	15	8	33	31	6	3	4	13	8	1	4	17	120
V do	1	1	2	4	8	13	3	1	5	6	7	6	7	13	69
VI do	7	8	5	9	29	20	5	1	2	9	2	5	4	24	101
VII do	3	2	9	6	20	14	4	4	3	4	4	4	4	14	75
VIII do	3	1	4	2	10	12	..	..	..	4	4	2	2	14	75
IX do	3	1	3	5	12	11	1	3	..	7	3	2	5	18	62
Vani Vilas Hospital	39	19	7	7	72	23	2	..	3	12	7	1	..	..	120
Victoria Hospital	..	..	..	2	2	9	5	5	13	31	35	22	13	25	160
E. D. Hospital	..	..	..	1	1	1	1	..	3	5	4	9	3	1	28
Mental Hospital	..	..	..	..	..	..	..	1	3	5	7	3	1	1	21
St. Martha's Hospital	..	..	..	..	..	..	..	1	..	6	5	3	4	2	21
Total	69	49	76	72	266	245	45	34	51	140	100	84	78	204	1,247
MYSORE CITY.															
Laskar Mohalla	5	2	7	4	18	19	5	2	5	14	7	9	8	34	121
Mandy do	1	2	8	3	14	16	6	..	11	11	7	5	5	22	97
Devaraj do	..	..	8	3	11	10	2	1	1	3	3	1	3	9	44
Chamaraj do	..	3	11	4	27	31	5	3	8	9	7	3	2	17	107
Krishnaraj do	3	5	7	4	19	18	4	..	8	9	10	10	8	28	114
Fort	..	..	1	1	2	3	2	..	..	2	..	1	3	6	19
Nazarabad	2	2	2	1	6	6	1	2	3	3	1	1	6	7	36
Vanivilas Hospital	15	5	..	..	20	..	..	..	..	2	4	..	..	..	27
Palace Dispensary	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Krishnarajendra Hospital	1	1	5	4	11	12	6	6	5	20	24	13	8	8	113
Epidemic Hospital	1	1	..	..	2	1	..	..	1	6	4	1	5	1	21
P. K. T. Sanatorium	..	..	..	..	..	..	..	..	1	3	..	2	..	..	6
Sawar and Barr. Line	1	3	..	..	1	1	1	..	..	..	..	..	..	..	5
Holdsworth's Memorial Hospital.	6	3	5	3	17	3	2	..	4	1	2	..	..	1	32
Total	44	24	54	26	148	120	35	1+	42	83	69	48	48	135	742

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	1	1	3	16	11	..	..	1	..	..	2	..	..	..	30
II do	..	1	..	..	..	3	20	25	20	..	3	..	..	2	..	..	..	67
III do	..	8	..	..	..	4	54	32	8	..	1	..	..	2	..	..	..	107
IV do	..	1	..	..	..	1	20	11	20	..	1	..	..	..	..	..	..	58
V do	..	1	..	..	..	..	10	8	14	..	..	..	..	..	..	..	..	35
VI do	..	1	..	1	1	2	18	21	5	..	..	..	1	..	..	..	..	52
VII do	..	1	..	1	..	1	12	10	9	..	..	..	..	..	..	..	..	40
VIII do	5	5	4	..	..	..	..	..	..	..	..	39
IX do	1	..	4	3	9	3	..	1	..	..	..	..	..	..	41
Vani Vilas Hospital	1	8	11	..	..	8	..	..	..	..	..	..	91
Victoria Hospital	2	11	..	12	31	..	..	3	1	..	12	..	..	..	88
E. D. Hospital	..	3	..	..	..	..	7	10	1	..	1	1	..	..	..	..	..	5
Mental Hospital	6	1	..	..	..	..	..	..	..	..	..	13
St. Martha's Hospital	1	..	..	8	..	..	..	..	..	..	..	..	..	12
Total	..	15	..	5	15	19	191	193	84	1	20	3	3	18	..	1	1	678
MYSORE CITY.																		
Laskar Moballa	2	..	8	12	26	8	..	1	..	1	2	..	..	..	64
Mandy do	..	1	..	1	..	2	7	23	7	..	1	..	..	1	..	..	..	55
Devaraj do	2	2	7	7	4	..	..	..	..	..	..	..	..	21
Chamaraj do	1	..	4	18	18	2	..	..	..	..	2	..	..	..	68
Krishnaraja Moballa	1	1	..	1	19	10	17	..	2	..	..	..	..	..	..	63
Fort	5	2	4	..	..	..	..	1	..	..	..	7
Nazarbad	1	9	4	3	..	..	..	1	1	..	..	..	17
Vanivilas Hospital	1	..	..	4	1	..	..	..	..	..	..	21
Palace Dispensary	5	2	7	5	27	1	..	2	..	..	7	..	..	..	57
Krishnarajendra Hospital	3	11	..	..	..	..	..	..	..	..	..	7
Epidemic Hospital	4	1	..	..	..	..	..	..	..	..	1
P. K. T. Sanatorium	1	1	..	..	..	..	..	..	..	..	..	3
Sawar and Bar Line	2	1	5	5	1	..	4	..	..	..	..	..	..	14
Holdsworth's Memorial Hospital
Total	..	1	1	9	6	26	92	133	43	4	11	..	2	14	..	..	2	398

TABLE 3.—Detailed statistics of births collected under the new system in the Municipalities of Bangalore and Shimoga Districts in the quarter April to June 1938.

	Births		Permanent residence of mother		Community of Mother											
	Born alive		Born dead	Place of Birth	Outside	Lingayet	Vokkaliga	Vaisya	Kshatriya	Brahmin	Adikarnataka	Musalman	Jain	Christian	European	Others
	M.	F.															Total
BANGALORE DISTRICT.																
1. Anekal	15	19	34	33	2	3	4	1	3	3	2	6	1	..	..	18
2. Chennapatna	50	32	82	81	2	1	4	1	10	8	8	46	..	..	..	16
3. Closepet	32	24	56	54	2	1	4	1	5	5	2	11	..	..	..	21
4. Devanahalli	29	17	46	46	1	4	..	..	10	2	4	4	..	..	..	27
5. Doddballapur.	38	28	66	65	4	6	2	..	12	5	12	12	..	1	..	31
6. Hoskote	12	13	25	17	8	1	..	..	9	..	5	5	..	..	10	10
7. Kankanhalli.	20	13	33	32	2	4	3	..	2	..	6	..	..	..	19	19
8. Magadi	19	31	50	44	7	8	4	4	5	1	9	8	..	..	15	15
9. Nelamangala	16	20	36	35	1	7	2	1	5	1	8	..	..	..	11	11
10. Sarjapur	9	10	19	20	..	1	..	1	1	3	4	..	..	..	8	8
11. Tyamagondhu	20	16	36	34	2	1	..	..	2	3	8	..	..	..	8	8
12. Vadigenahalli	13	9	22	22	1	2	1	..	1	3	5	..	..	..	11	11
13. Yelahanka	11	12	23	24	..	..	1	2	3	3	2	..	..	..	13	13
Total	284	244	528	508	32	39	34	17	8	71	34	126	1	1	1	208
SHIMOGA DISTRICT.																
1. Bhadravati	16	14	30	30	..	..	..	..	1	3	1	4	..	..	..	23
2. Chanugiri	30	22	52	48	4	7	2	3	3	5	..	21	..	..	..	16
3. Honnali	25	22	47	44	5	4	..	..	4	4	7	3	..	..	..	33
4. Kumsi	13	5	18	17	2	3	..	..	..	..	..	..	..	..	..	9
5. Hosanagar	6	5	11	11	..	1	..	..	..	..	..	..	..	..	..	6
6. Nyamathi	22	15	37	33	4	19	..	..	..	..	..	..	1	..	..	12
7. Sagar	29	27	56	56	..	..	..	..	..	..	..	..	..	..	..	50
8. Shikarpur	16	20	36	33	3	4	1	..	6	..	6	..	..	..	..	12
9. Shimoga	124	125	249	210	65	18	3	9	4	60	9	13	..	..	12	93
10. Shiralkoppa	8	10	18	18	..	1	..	1	1	1	5	..	..	..	..	10
11. Sorab	4	7	11	11	1	1	..	..	1	1	4	..	..	..	..	5
12. Tirthahally	17	21	38	41	2	..	2	..	11	1	7	..	7	..	..	14
Total	310	293	603	552	86	58	8	13	5	94	15	141	1	20	1	283

TABLE 3—concl'd.

	Age of mother										Total (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	...	6	9	11	6	3	...	...	...	1	35	2	6	5	...	1	3	1	1	2	...
Chennapatna	...	11	27	22	9	12	...	...	...	1	83	13	12	12	4	11	2	1	...	1	...
Closepet	...	3	11	19	5	2	1	4	...	...	56	8	12	3	1	4	3	...	...	1	...
Devanhalli	9	6	9	3	...	...	...	...	47	7	8	5	2	3	...	...	...	1	...	
Dodballapur	20	15	14	3	...	...	...	...	70	13	8	8	1	2	...	...	...	...	...
Hoskote	25	15	7	1	...	...	...	...	25	17	2	2	1	1	...	...	...	...	...
Kankanhalli	4	1	7	1	...	...	...	...	7	6	2	2	1	1	...	...	...	...	...
Magadi	9	13	4	1	...	...	...	...	34	6	7	2	2	3	...	...	...	...	...
Nelauangala	11	6	7	5	...	...	...	...	51	17	5	2	7	1	...	...	...	...	...
Sarjapur	12	5	4	2	...	...	...	...	36	14	4	2	5	1	...	...	...	...	...
Tyaganondlu	6	5	7	3	...	...	...	...	20	8	3	4	1	2	...	...	...	...	...
Vadigenahalli	10	6	4	3	...	...	...	...	36	9	3	7	...	1	...	...	...	...	...
Yelahanka	5	4	5	3	...	...	...	...	23	5	5	2	1	2	...	...	...	...	...
Yelahanka	5	7	...	1	...	...	...	...	24	10	1	2	...	...	...	...	...	...	...
Total	7	119	162	118	82	40	6	5	1	540	76	72	53	25	34	19	21	6	10	9	9	
SHIMOGA DISTRICT.																						
Bhadravathi	...	4	7	8	10	...	1	...	...	30	3	2	6	2	3	1	2	...	...	1	...
Channagiri	19	11	11	...	...	...	...	52	14	1	3	1	9	4	...	...	...	3	...	
Honnaji	13	11	6	4	...	...	...	49	6	4	3	2	5	4	...	...	...	4	...	
Kumsi	2	4	2	...	...	...	...	19	4	1	3	...	...	...	...	...	...	1	...	
Hosanagar	3	3	...	3	...	...	...	11	...	...	1	1	...	...	...	...	...	...	...
Nyamathi	18	7	6	1	...	...	...	37	...	...	5	2	...	...	...	...	...	...	...
Sagar	13	26	6	1	...	...	...	9	10	10	4	6	8	1	...	...	...	...	...
Shikarpur	8	11	5	3	...	...	...	36	2	4	4	4	4	...	...	...	...	...	...
Shimoga	91	58	35	15	...	...	...	275	41	26	24	21	12	12	6	6	8	...	...
Shirkoppa	8	2	1	...	...	...	...	18	4	4	...	...	...	...	...	...	...	...	...
Sorab	6	2	2	1	...	...	...	12	3	2	...	...	...	...	...	...	...	...	...
Tirthahally	11	15	4	3	...	...	...	43	10	5	2	1	...	...	...	...	...	...	...
Total	2	150	193	158	88	31	11	...	5	638	99	60	56	45	33	26	16	14	15	...	...

TABLE 4.
Detailed statistics of deaths collected under the new system in the Municipalities of Bangalore and Shimoga Districts in the quarter April to June 1938.

Name of District	Deaths		Permanent residence of the deceased	Conjugal condition at time of death				Community											
	F	M		Total	Single	Married	Widowed	Divorced	Lingayat	Vokkaliga	Vaisya	Kshatriya	Brahmin	Adikarnataka	Musalmans	Jain	Christian	European	Others
BANGALORE DISTRICT.																			
Anekal	10	10	20	5	12	3	2	1	3	...	...	1	5	3	20	...	...	...	15
Chennapatna	26	19	45	13	30	...	...	1	1	...	...	1	5	2	9	...	...	...	14
Closepet	7	11	18	8	13	...	...	...	1	...	...	2	3	2	2	...	...	...	8
Devanahalli	11	11	22	9	13	...	...	...	1	...	...	...	3	2	2	...	...	...	16
Dodballapur	12	7	19	11	7	...	...	...	...	...	...	1	2	2	1	...	...	...	12
Hoskote	10	4	14	4	8	...	...	...	...	...	...	...	2	...	2	...	...	...	7
Kankanhalli	7	11	18	5	9	...	...	...	...	...	...	...	1	...	1	...	...	...	13
Magadi	7	8	15	3	6	...	...	...	...	...	...	...	1	...	1	...	...	...	7
Nelavangala	3	5	8	3	5	...	...	...	...	...	...	...	1	...	1	...	...	...	3
Sarjapur	9	4	13	4	4	...	...	...	...	...	...	...	1	...	1	...	...	...	8
Tyamasogndin	8	9	17	14	1	...	...	...	...	...	...	...	...	1	2	...	...	...	11
Vadigenahalli	10	10	20	7	12	...	...	...	...	...	...	...	1	...	3	...	...	...	12
Yelahanka	5	7	12	6	4	...	...	...	...	...	...	...	...	2	2	...	...	...	7
Total	125	116	241	89	119	30	3	14	11	7	3	19	14	42	1	2	...	128	
SHIMOGA DISTRICT.																			
Bhadravathi	5	4	9	3	6	...	...	...	...	...	...	...	1	...	3	...	...	...	4
Channagiri	9	7	16	3	8	...	...	...	...	...	...	...	2	...	1	...	...	...	10
Honnali	12	14	26	15	6	...	...	...	...	...	...	...	4	...	6	...	...	...	14
Kumsi	9	...	9	3	6	...	...	...	...	...	...	...	...	...	1	...	...	...	8
Hosanagar	3	3	6	3	3	...	...	...	...	...	...	...	...	...	1	...	...	...	3
Nyamathi	6	5	11	4	6	...	...	...	...	...	...	...	5	...	4	...	...	...	1
Sagar	17	6	23	13	10	...	...	...	...	...	...	...	...	...	2	...	...	...	21
Shikarpur	6	5	11	...	6	...	...	...	...	...	...	...	...	...	4	...	...	...	6
Shimoga	50	52	102	41	37	...	...	...	...	...	...	...	4	...	4	...	...	...	47
Shiralakoppa	5	10	15	8	3	...	...	...	...	...	...	...	2	...	7	...	...	...	5
Sorab	4	6	10	4	3	...	...	...	...	...	...	...	1	...	1	...	...	...	6
Tirthahalli	4	4	8	1	5	...	...	...	...	...	...	...	...	...	1	...	...	...	3
Total	130	116	246	99	97	39	11	19	2	4	1	17	3	57	2	13	...	128	

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
BANGALORE DISTRICT.															
Anekal	...	...	...	...	...	1	...	...	1	2	1	4	4	7	20
Chennapatna	...	...	...	...	...	5	...	...	4	3	2	4	4	16	45
Closepet	1	1	...	...	...	1	...	...	...	2	1	1	1	4	18
Devanhalli	...	...	...	...	...	0	...	...	2	2	1	1	1	11	22
Dodballapur	1	1	...	...	...	5	...	...	1	2	...	3	3	5	19
Hoskote	...	...	...	...	...	...	...	...	1	1	...	...	...	7	14
Kankanhalli	...	...	...	...	...	3	...	...	2	2	...	...	...	4	18
Magadi	...	...	...	...	...	1	...	...	...	4	...	...	...	5	15
Nelamangala	...	...	...	...	...	2	...	...	...	2	...	...	...	5	15
Sarjapur	...	...	...	...	...	3	...	...	...	2	...	...	...	...	8
Tyaganondlu	1	2	...	...	...	2	...	...	...	...	...	...	...	5	13
Vadigenahalli	2	1	...	...	...	2	...	...	1	...	...	...	...	1	17
Yelahanka	1	2	...	...	...	1	...	...	...	2	...	...	...	8	20
Total	6	2	7	10	25	26	8	5	12	23	17	29	20	76	241
SHIMOGA DISTRICT.															
Bhadravathi	...	...	...	2	2	1	...	...	...	...	3	1	...	2	9
Channagiri	...	...	...	4	...	3	...	...	1	3	1	1	1	7	16
Honnali	4	4	...	...	12	2	...	...	...	...	1	...	...	5	26
Kumsi	1	...	1	...	2	...	...	...	...	...	1	...	...	2	9
Hosanagar	...	...	...	...	...	1	...	...	...	1	1	...	...	1	6
Nyamathi	...	...	...	...	...	2	...	...	...	2	1	5	...	1	11
Sagar	7	...	...	...	7	3	...	...	...	1	3	...	...	5	23
Shikarpur	...	...	...	...	...	...	...	...	...	3	2	1	...	4	11
Shimoga	2	2	6	5	...	18	...	...	6	11	16	7	9	16	102
Shirakoppa	5	1	1	1	6	3	...	...	...	3	1	...	...	3	15
Sorab	...	...	...	...	...	3	...	...	...	1	2	...	...	...	10
Tirthahalli	...	...	...	...	...	...	...	...	...	...	3	...	...	5	8
Total	19	6	9	12	46	33	6	4	7	27	33	22	17	51	246

TABLE 4—*concl'd.*

Name of District	Causes of death																		
	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	1	3	1	7	..	..	..	..	..	..	..	..	..	8
Chennapatua	2	..	14	2	4	6	..	2	1	..	..	..	..	..	..	14
Closepel	1	1	5	1	3	2	..	2	..	..	..	..	..	..	..	2
Devanhalli	4	2	1	1	..	..	..	..	..	..	..	..	..	12
Dodballapur	2	5	3	3	3	..	..	..	..	..	..	..	..	..	..	8
Hoskote	6	..	1	..	2	..	..	..	..	3	2	..	..	..	..	3
Kankanhalli	2	1	1	4	..	2	..	2	..	..	..	..	..	7
Magadi	1	2	1	1	..	1	..	2	..	..	..	..	..	6
Nelamangala	1	..	1	1	..	1	..	..	2	..	..	..	..	2
Sarjapur	1	..	1	..	..	..	..	..	..	..	..	..	..	4
Tyanganondlu	1	2	8	1	..	..	..	..	..	..	..	..	..	..	..	5
Vadigenahalli	2	4	..	..	..	..	..	..	..	..	..	..	..	14
Yelahanka	4	1	..	1	..	..	..	..	..	..	..	..	..	6
Total	1	..	..	12	8	55	20	17	23	2	7	1	5	4	..	..	..	..	86
SHIMOGA DISTRICT.																			
Bhadra vathi	..	2	..	..	..	2	..	3	..	..	..	..	..	..	..	..	..	..	2
Channagiri	..	1	..	3	..	4	..	3	..	..	..	..	..	..	..	..	..	..	6
Honnali	1	..	7	3	1	3	..	1	..	..	..	..	..	..	..	10
Kumsi	8	..	..	..	..	..	..	..	1	..	..	..	..	1
Hosanagar	1	2	2	1	..	..	..	..	..	..	..	..	..	..	1
Nyamathi	1	..	6	1	2	..	..	1	..	..	..	..	..	..	..	2
Sagar	5	1	2	..	..	..	..	..	..	..	..	..	..	14
Shikarpur	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	8
Shimoge	..	1	1	4	2	15	6	2	4	..	8	..	..	1	1	..	..	..	56
Shiralakoppa	1	1	..	6	1	1	..	..	1	..	..	..	..	1	..	..	6
Sorab	4	1	1	..	..	1	..	..	..	..	..	..	..	4
Tirthahally	2	..	1	..	..	..	..	1	..	..	1	..	..	..	..	8
Total	4	1	1	13	8	61	13	14	8	..	12	..	..	8	1	1	..	..	112

TABLE 5.

Detailed statistics of births collected under the new system in each Taluks of Bangalore and Shimoga in the quarter April to June 1938.

Name of District	Births			Permanent residence of Mother		Community of mother										
	Born alive		Born dead	Place of birth	Outside	Lingayet	Vokkaliga	Vaisya	Kshatriya	Brahmin	Adikarnataka	Musalmann	Jain	Christian	European	Others
	M	F															Total
BANGALORE DISTRICT.																
Anekal	184	193	377	4	317	62	43	1	4	10	101	11	...	1	...	207
Bangalore	865	356	721	7	579	146	170	...	...	14	132	24	...	23	...	330
Channapatna	216	268	484	12	338	155	267	...	1	11	87	15	...	...	...	102
Closepel	263	258	521	4	324	201	240	...	...	9	64	32	1	...	...	140
Devanhalli	127	111	238	6	208	35	103	...	...	10	45	10	...	...	...	75
Dodballapur	192	182	374	4	301	76	92	2	...	9	62	8	...	1	...	167
Hoskote	239	154	393	2	338	54	96	2	4	7	73	26	...	1	...	171
Kankanhalli	305	307	613	7	429	191	43	2	1	5	91	13	...	8	...	211
Magadi	275	276	551	7	428	118	176	2	...	14	76	30	5	...	...	163
Nelamangala	237	226	463	8	385	85	131	2	...	9	78	15	...	...	...	181
Total	2,404	2,321	4,725	61	3,647	1,123	1,564	11	10	98	809	184	6	34	...	1,747
SHIMOGA DISTRICT.																
Channagiri	298	280	578	3	513	66	231	...	1	7	34	39	2	...	...	265
Honnali	257	270	527	7	478	53	203	...	...	2	37	23	...	...	...	263
Kumsi	30	34	64	1	60	5	10	...	...	4	7	...	...	...	...	44
Nagar	88	90	178	2	141	39	19	...	...	34	12	1	...	1	...	113
Sagar	146	114	260	9	191	77	15	...	...	42	12	4	13	1	...	164
Shikarpur	198	139	337	13	298	49	109	2	2	3	12	26	...	1	...	192
Shimoga	123	121	244	2	205	40	72	...	...	7	26	25	...	3	...	112
Sorab	195	192	387	19	328	75	81	...	...	4	36	13	...	...	...	235
Tirthahalli	122	93	215	6	137	82	16	...	...	...	14	4	...	...	...	146
Total	1,457	1,333	2,790	62	2,351	486	745	...	8	157	190	185	15	6	...	1,535

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 all ages	1	2	3	4	5	6	7	8	9	10	Over 10	Not stated	
BANGALORE DISTRICT.																							
Anekal	2	72	111	93	61	29	5	6	...	379	85	87	70	56	32	19	12	4	10	4	...	...	...
Bangalore	1	127	208	193	114	54	24	4	...	725	153	137	123	109	85	51	24	21	12	4	...	...	...
Chennapatna	5	70	131	147	77	32	4	5	...	493	118	82	75	70	52	27	15	17	3	...	...	...	...
Closepet	2	147	134	134	84	45	9	3	...	525	117	102	82	74	40	46	24	16	10	...	...	...	...
Devanahalli	1	43	74	71	27	16	7	3	...	243	63	54	35	42	19	17	4	4	2	...	...	...	...
Dodballapur	...	69	89	94	66	37	15	4	...	377	86	73	79	48	38	19	9	12	2	...	...	...	...
Hosakote	1	73	89	103	69	38	10	3	...	392	81	91	62	46	43	88	9	13	2	...	...	...	...
Kankanbally	7	103	174	176	96	36	18	10	...	620	134	128	116	81	73	48	17	13	3	...	...	...	...
Magadi	1	108	128	150	93	50	12	4	...	546	113	113	87	77	53	46	15	11	10	...	...	...	...
Nelamangala	5	85	127	117	80	32	16	6	...	470	99	86	79	59	46	37	22	15	13	...	...	...	...
Total	25	865	1,278	1,278	767	369	120	48	20	4,770	1,049	952	809	632	481	348	151	126	67	37	59	29	29
SHIMOGA DISTRICT.																							
Channagiri	2	120	182	133	82	43	12	4	1	579	158	109	93	65	57	34	22	16	13	...	...	...	...
Honnali	5	80	163	130	97	50	4	2	...	531	114	102	76	62	62	41	26	18	10	...	...	...	...
Kumsi	2	18	23	14	7	4	2	...	...	65	21	7	17	7	6	1	2	3	...	...	...	...	...
Nagar	1	31	60	56	17	13	1	...	...	180	58	41	82	18	9	10	5	3	...	...	...	...	...
Sagar	...	42	83	78	47	14	4	...	...	268	57	59	48	43	23	16	11	7	...	...	...	...	...
Shikarpur	2	54	100	99	63	21	7	1	...	347	78	78	61	46	29	22	13	1	8	...	...	...	...
Shimoga	3	54	65	62	34	18	5	4	...	245	64	59	32	34	22	8	7	9	4	...	...	...	...
Sorab	1	52	133	114	70	24	7	2	...	403	88	86	82	51	32	19	18	10	8	...	...	...	...
Tirthahalli	1	29	71	74	27	15	2	...	...	219	55	50	32	32	20	16	5	4	...	...	...	...	...
Total	17	475	880	760	444	202	44	13	2	2,887	693	591	470	358	260	167	109	71	47	23	26	22	22

TABLE 6.
Detailed Statistics of Deaths collected under the new system in Taluks of Bangalore and Shimoga Districts in the quarter April to June 1938.

Name of District	Deaths			Permanent residence of the deceased		Conjugal condition at time of death					Community										
	M	F	Total	Death	Outside	Single	Married	Widowed	Divorced	Not stated	Tingayt	Vokkaliga	Vaisya	Kshatriya	Brahmin	Adikarna-taka	Musallman	Jain	Christian	European	Others
BANGALORE DISTRICT.																					
Anekal	89	84	173	257	16	66	102	5	..	..	10	19	..	1	3	40	6	..	1	..	98
Bangalore	162	171	353	311	42	145	183	25	..	..	7	95	..	..	5	59	21	..	10	..	156
Chennapatna	115	112	227	183	44	85	130	12	..	..	5	103	..	4	4	31	6	..	..	..	74
Closepet	75	88	163	113	50	45	108	10	..	..	16	73	..	..	2	22	11	..	..	..	39
Devanahalli	58	55	113	104	9	40	67	6	..	..	1	37	..	..	3	27	2	..	..	..	43
Dodballapur	134	134	268	226	40	93	149	26	..	..	15	75	..	..	7	56	2	..	..	..	113
Hosakote	71	83	154	143	11	73	75	6	..	..	2	40	..	..	4	29	9	..	..	..	69
Kankanhally	90	97	187	174	13	69	111	5	2	..	13	79	..	4	20	4	4	..	4	..	63
Magadi	125	106	231	188	43	95	115	16	5	..	18	92	..	..	7	30	7	..	..	..	80
Nelamangala	107	114	221	203	18	68	141	12	..	..	17	76	..	..	7	33	8	..	..	..	79
Total	1046	1044	2090	1804	286	779	1181	123	7	..	104	689	2	10	38	347	76	..	15	..	809
SHIMOGA DISTRICT.																					
Channagiri	126	115	241	222	19	101	106	30	1	3	104	2	..	..	2	22	13	..	..	..	98
Sonnali	131	132	263	244	19	118	136	9	..	..	98	..	..	..	..	21	11	..	..	..	130
Kumsi	28	14	42	41	1	15	23	3	..	..	11	..	..	..	..	2	7	..	..	..	22
Sagar	63	64	127	109	18	49	73	5	..	..	9	1	..	..	11	7	1	..	..	..	98
Sagar	113	89	202	144	58	93	95	12	..	2	13	12	..	..	21	17	5	..	..	..	134
Shikarpur	156	130	286	266	20	120	146	19	1	..	108	2	..	..	4	16	15	..	..	..	139
Shimoga	77	85	162	151	11	54	105	3	..	..	47	4	..	..	1	15	19	..	..	..	72
Sorab	131	135	266	222	44	102	141	21	..	2	53	11	..	..	9	31	11	..	..	..	144
Tirthahalli	80	79	159	122	37	64	87	7	..	1	1	6	..	..	16	9	4	..	..	..	122
Total	905	843	1748	1521	227	717	912	109	2	8	444	38	..	15	63	140	86	2	1	..	959

TABLE 6—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 one 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	4	5	10	2	21	20	9	12	7	20	21	10	16	37	..	173
Bangalore	14	7	18	5	44	51	19	13	15	31	21	40	30	89	..	853
Chennapatna	12	7	8	8	35	20	12	11	4	17	14	19	23	66	..	227
Closepet	10	1	5	2	18	13	6	5	11	16	14	11	15	54	..	163
Devanhalli	2	5	2	2	11	10	7	5	3	11	11	12	8	34	1	113
Dodballapur	15	11	4	5	35	30	7	5	13	29	26	21	17	88	2	288
Hoskote	12	4	6	5	27	26	6	9	12	12	8	11	9	42	2	154
Kankanhalli	11	10	3	6	30	16	13	6	6	21	15	17	22	41	..	187
Magadi	8	3	11	9	31	35	11	6	3	23	13	25	21	60	4	231
Nelamangala	10	6	7	10	33	18	9	6	3	22	17	22	17	73	1	221
Total	98	59	74	54	285	239	99	78	67	202	166	187	178	579	10	2090
SHIMOGA DISTRICT.																
Channagiri	5	4	18	8	35	38	11	7	8	23	19	32	21	47	..	241
Honnali	5	10	15	14	44	41	8	12	7	32	23	17	24	55	..	263
Kumsi	1	1	1	1	4	1	2	4	2	5	5	4	6	9	..	42
Nagar	8	6	1	3	18	7	1	3	9	29	24	11	7	18	..	127
Sagar	11	7	9	3	30	27	7	4	12	14	32	28	21	27	..	202
Shikarpur	18	8	13	4	43	31	14	13	16	38	37	35	31	28	..	286
Shimoga	9	4	2	4	16	16	5	8	6	22	24	23	23	25	..	162
Sorab	17	13	10	3	43	13	12	5	9	46	35	31	29	41	2	266
Tirthahalli	9	6	5	6	26	6	4	11	7	35	23	18	11	17	1	159
Total	83	59	74	43	259	174	64	67	76	244	222	199	173	267	3	1748

TABLE 6—concl'd.

Name of District	Causes of death																		
	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	Snake-bite	Rabies	All other causes	
BANGALORE DISTRICT.																			
Anekal	12	...	...	36	8	19	10	8	15	3	5	...	3	3	...	...	...	51
Bangalore	5	...	3	101	13	49	13	21	35	1	9	1	8	5	...	...	1	84
Chennapatna	...	...	3	70	15	18	12	14	15	4	8	3	1	6	...	...	...	58
Closepet	...	...	...	43	22	23	6	7	12	...	7	2	3	1	...	...	...	37
Devanahalli	4	1	...	19	5	14	5	6	14	3	3	...	3	4	...	...	...	32
Dodballapur	1	4	2	83	18	27	17	9	27	7	3	1	1	2	...	...	...	70
Hoskote	...	...	...	59	6	23	3	6	6	1	7	1	2	1	...	...	...	35
Kankanhally	...	...	...	87	6	18	6	10	8	2	3	1	10	1	...	...	...	35
Magadi	...	...	4	61	15	25	18	2	27	2	8	2	7	3	...	...	...	57
Nelsamangala	...	1	4	57	16	26	15	5	21	5	6	...	4	5	1	...	...	53
Total	22	6	16	616	124	242	105	88	180	28	59	11	42	31	1	6	1	512	
SHIMOGA DISTRICT.																			
Channagiri	...	2	3	92	23	31	13	18	12	...	4	...	2	...	...	1	...	40
Honnali	...	3	5	91	21	31	17	23	5	...	6	1	1	...	...	...	...	59
Kumsi	...	...	1	11	...	8	...	7	1	...	3	...	1	1	...	...	...	8
Nagar	...	...	4	75	7	10	6	1	1	1	9	1	...	2	...	...	...	10
Sagar	...	1	1	95	23	31	9	8	13	3	7	2	...	2	...	...	...	12
Shikarpar	...	2	1	105	17	40	15	15	8	3	8	1	3	...	...	...	...	56
Shimoga	...	1	1	59	16	18	4	22	1	1	1	...	...	3	...	...	...	26
Sorab	...	...	2	83	35	61	12	15	8	...	7	1	...	...	...	...	...	42
Tirahalli	...	...	2	74	21	21	4	4	5	1	9	2	...	...	...	...	...	16
Total	13	9	20	685	163	251	80	108	54	9	60	8	7	8	...	4	1	269	

TABLE 7.

Reported number of births, deaths and infant deaths in the districts and cities of the Mysore State in the quarter January-March 1938.

District or City	Estimated population as on 1st July 1938	Births (Exclusive of Still-births)				Deaths (Exclusive of Still-births)				Deaths under one year of age				Still-births							
		Jan.	Feb.	March	Total	Rate per 1000 of Population	Jan.	Feb.	March	Total	Rate per 1000 live births	Jan.	Feb.	March	Total	Rate per 100 live births					
																	Rate per 1000 of Population	Rate per 1000 live births	Rate per 100 live births		
Bangalore District (Excluding City).	9,96,415	1,796	1,671	1,716	5,183	20.8	1,238	878	923	3,039	12.2	207	129	120	456	8.80	34	43	19	96	1.9
Chitaldrug District...	7,17,394	1,416	1,281	1,386	4,083	22.8	729	578	763	2,070	11.5	162	107	115	384	94.0	26	15	21	61	1.5
Hassan do	6,06,519	986	908	1,004	2,898	19.1	1,171	830	787	2,788	18.4	123	96	96	315	108.7	23	17	18	58	2.0
Kadur do	3,68,178	512	461	505	1,478	16.5	561	409	531	1,501	16.8	72	35	43	160	101.5	24	11	9	44	3.0
Kolar do	8,07,695	1,086	1,041	1,234	3,361	16.6	1,376	1,054	1,092	3,522	17.6	170	144	113	427	127.0	13	19	17	49	1.5
(Excluding K.G.F.).																					
Mysore District (Excluding City).	14,66,454	1,922	1,864	1,823	5,608	15.3	1,852	1,314	1,512	4,678	12.8	233	132	135	500	89.2	15	17	15	47	0.8
Shimoga District	5,40,238	1,188	1,144	1,290	3,622	26.8	1,232	1,061	1,036	3,329	24.6	211	108	122	441	121.8	45	25	46	116	3.2
Tumkur do	9,26,583	1,567	1,643	1,745	4,955	21.4	918	661	893	2,472	10.7	204	134	132	470	94.9	7	22	23	52	1.0
Mysore State (Excluding Cities).	64,19,476	10,473	10,013	10,702	31,188	19.4	9,077	6,785	7,537	23,399	14.6	1,382	885	876	3,143	100.8	186	169	168	523	1.7
Bangalore City	2,12,080	755	595	743	2,093	39.5	491	359	445	1,295	24.4	173	113	106	392	187.3	55	32	47	134	6.4
Mysore do	1,24,265	427	392	427	1,246	40.1	310	258	232	800	25.8	63	53	45	161	129.2	18	15	17	50	4.0
Kolar Gold Field	63,201	336	308	662	1,306	62.8	234	216	234	684	32.9	76	55	68	199	152.4	4	5	...	9	0.7
Mysore State (Including Cities).	68,39,022	11,991	11,308	12,534	35,833	21.0	10,112	7,618	8,448	26,178	15.3	1,694	1,105	1,095	3,885	108.7	263	221	232	716	2.0

TABLE 8.

Reported deaths in the districts and cities of the Mysore State in the quarter January-March 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	All other causes	Total deaths		
																			Jan.- March 1938	Oct.- Dec. 1937	
Bangalore District (Excluding City).	369	4	13	720	143	342	165	149	227	35	68	10	36	36	3	5	6	706	3,039	3,184	
Chitaldrug District	..	6	3	776	128	321	105	117	98	23	59	3	19	18	..	4	4	386	2,070	2,313	
Hassan do	140	10	38	1,480	107	380	74	64	67	19	67	7	5	12	3	4	2	309	2,788	3,306	
Kadur do	..	..	3	822	135	131	57	88	18	11	56	2	7	11	1	1	1	157	1,501	1,640
Kolar do	646	30	21	872	136	559	140	125	145	30	66	3	34	19	..	2	4	690	3,522	4,005	
(Excluding K. G. F.).	496	111	25	1,769	338	465	272	210	209	40	91	10	21	31	2	5	1	582	4,678	5,694	
Mysore District (Excluding City).	20	3	36	1,257	315	454	142	205	84	25	135	7	19	7	4	5	2	609	3,329	3,247	
Shimoga District	1	19	39	860	149	310	141	85	221	31	93	5	25	25	5	8	..	455	2,472	2,961	
Tumkur District
Mysore State (Excluding Cities).	1,672	183	178	8,556	1,451	2,962	1,096	1,043	1,069	214	635	47	166	159	18	34	20	3,896	23,399	26,360	
Bangalore City	2	..	..	4	8	57	120	177	69	2	10	1	3	16	..	..	1	825	1,295	1,390
Mysore City	7	..	..	25	8	23	82	161	22	3	10	3	2	17	..	..	..	487	800	909
Kolar Gold Field	67	..	..	6	1	56	70	107	10	..	1	..	6	16	..	..	..	344	684	662
Mysore State (Including Cities)	1,748	183	178	8,591	1,468	3,098	1,368	1,488	1,170	219	656	51	177	208	18	34	21	5,502	26,178	29,311	

TABLE 5 (a).
Detailed Statistics of Births collected under the new system in the Taluks of Bangalore and Shimoga Districts.
in the quarter January to March 1938.

Name of District	Births			Born dead	Permanent residence of Mother		Community of Mother										
	Born alive		Total		Place of Birth	Outside	Lingayet	Vokkaliga	Vaiya	Kshatriya	Brahmin	Adikarnataka	Musalman	Jain	Christian	European	Others
	M.	F.															
BANGALORE DISTRICT.																	
Anekal Taluk	141	167	308	9	251	65	14	28	3	6	9	47	9	..	..	..	208
Bangalore	368	340	708	10	550	163	35	155	..	4	20	126	40	..	..	..	306
Chennapatna	301	294	595	7	426	175	14	344	..	4	4	87	14	..	..	..	134
Closepet	249	493	742	11	296	206	40	222	..	4	..	82	24	..	..	..	129
Devanahalli	95	88	183	2	154	30	3	61	..	..	6	33	6	..	..	..	75
Dodballapur	196	182	378	4	315	67	24	107	..	2	20	55	12	..	..	..	157
Hoskote	170	178	348	4	301	50	11	81	..	..	9	67	36	..	..	..	147
Kankehally	372	366	738	2	517	222	37	318	..	5	8	91	30	..	..	..	237
Magadi	254	245	499	12	393	116	75	177	..	1	9	64	50	..	..	..	130
Nelamangala	226	249	475	13	397	90	54	149	..	..	17	78	22	..	..	..	163
Total	2,372	2,353	4,725	74	3,600	1,184	307	1,642	20	21	102	730	243	3	31	..	1,685
SHIMOGA DISTRICT.																	
Channagiri Taluk	288	280	568	16	501	82	231	1	1	2	8	30	37	..	..	..	273
Honnali	302	241	543	9	475	73	195	8	1	4	5	45	25	..	..	..	263
Kumsi	43	39	82	2	75	8	18	..	..	..	1	9	15	..	..	..	40
Nagar	80	81	161	5	120	45	24	..	..	..	20	10	8	..	..	..	106
Sagar	150	112	262	5	183	83	26	15	..	..	47	17	5	..	..	..	148
Shikarpur	204	164	368	9	324	52	103	2	..	1	5	14	15	..	..	..	233
Shimoga	165	157	322	5	298	28	81	5	..	1	15	36	29	..	..	..	167
Sorab	260	240	500	23	411	110	97	8	..	1	18	61	19	..	..	..	317
Tirthahalli	124	109	233	13	166	78	6	19	..	..	30	24	6	..	..	..	158
Total	1,616	1,423	3,039	87	2,553	559	781	58	2	13	149	246	154	8	6	..	1,695

TABLE 5 (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	
BANGALORE DISTRICT.																							
Anekal Taluk	3	39	95	90	51	31	7	..	..	316	56	70	55	51	24	31	11	8	5	1	4	..	3
Bangalore	3	114	179	210	118	59	23	5	2	713	133	149	121	93	72	66	25	21	9	9	12	3	..
Channarayana	3	103	147	171	96	67	18	2	1	601	109	113	107	88	74	82	27	14	6	6	6	10	..
Closepet	..	77	144	135	92	43	9	1	1	502	86	94	94	82	58	39	14	14	4	4	7	1	..
Devanahalli	..	81	51	47	34	13	4	2	1	184	42	38	27	33	14	12	8	4	3	..	1	2	..
Dodballapur	3	62	101	97	70	34	12	3	..	382	67	76	58	62	28	36	17	22	6	6	4	..	5
Hosakote	..	54	101	91	50	35	16	..	..	351	61	74	61	51	46	25	16	5	5	2	..	1	..
Kankanhally	..	17	102	211	137	59	20	3	..	739	148	149	133	126	75	49	27	19	6	7	4	1	..
Magadi	..	1	72	145	82	42	14	5	..	509	82	91	90	67	49	52	28	29	10	5	6	..	..
Nelamangala	..	3	71	136	126	89	16	4	1	487	84	91	83	61	61	33	28	22	14	4	6	..	..
Total	38	725	1,289	1,326	819	417	139	5	6	4,784	863	945	829	714	501	375	201	158	82	44	50	22	..
SHIMOGA DISTRICT.																							
Channagiri	8	93	178	147	102	38	12	5	..	583	93	142	105	78	59	45	24	18	6	8	5	..	..
Honnali	2	85	156	154	94	46	11	..	..	548	103	114	78	83	57	46	24	17	16	5	5	..	..
Kamsi	1	14	20	24	18	3	3	..	..	83	14	17	13	12	7	11	3	3	2	..	1	..	..
Nagar	..	25	50	52	28	8	2	..	..	165	42	30	25	24	18	8	8	5	3	3	..	..	..
Sagar	..	43	86	74	44	15	3	1	..	266	42	60	55	49	26	14	5	10	1	3	..	..	..
Shikarpur	..	1	55	140	101	48	4	1	..	376	73	108	69	49	31	20	8	12	4	..	2	..	..
Shimoga	..	4	58	100	86	17	2	1	..	326	67	72	57	49	34	20	9	13	3	2	..	..	..
Sorab	..	61	147	101	39	7	2	..	..	521	79	108	112	89	51	37	13	16	10	2	2	4	..
Thirthahalli	..	1	29	69	75	46	7	..	..	244	51	53	44	34	27	15	8	7	5	..	..	..	..
Total	78	549	963	814	477	177	46	8	..	3,112	564	704	558	467	310	216	102	101	50	22	18	..	..

TABLE 6 (a).
Detailed Statistics of Deaths collected under the new system in the Taluks of Bangalore and Shimoga Districts in the quarter January-March 1938.

Name of District	Deaths		Permanent residence of the deceased		Conjugal condition at time of death				Community											
	M	F	Total	Place of death	Outside	Single	Married	Widowed	Divorced	Lingayet	Vokkaliga	Vaisya	Kshatriya	Brahmin	Adikarna-taka	Musallman	Jain	Christian	European	Others
BANGALORE DISTRICT.																				
Anekal	108	110	218	195	18	81	121	6	6	22	3	3	3	5	51	5	...	...	...	124
Bangalore	229	229	458	386	72	161	244	8	14	126	...	...	...	11	82	12	...	...	...	196
Channarayana	156	137	293	238	55	120	153	7	7	154	...	...	...	3	41	6	...	...	...	81
Closepeth	104	92	196	122	74	68	94	2	2	76	...	...	...	...	24	16	...	...	...	66
Devanahalli	85	64	149	129	20	52	85	1	1	45	...	...	...	...	88	2	...	...	...	58
Dodballapur	149	154	303	269	34	119	155	6	42	87	...	...	...	...	45	2	...	...	...	119
Hosakote	118	144	262	249	13	77	167	...	11	50	...	...	...	...	41	19	...	...	...	139
Kankannabally	171	150	321	257	64	107	194	4	18	100	...	...	...	...	43	19	...	...	...	130
Magadi	146	140	286	228	58	107	152	3	34	95	...	...	...	...	29	27	...	...	...	90
Nelamangala	131	131	262	230	32	114	134	...	26	92	...	...	...	...	44	7	...	...	...	91
Total	1392	1351	2743	2303	440	1026	1499	35	173	847	6	9	41	488	115	5	15	...	...	1094
SHIMOGA DISTRICT.																				
Channagiri	217	166	383	355	28	150	207	1	157	...	...	...	...	...	33	23	...	...	...	167
Honnali	180	140	320	303	17	138	145	...	100	2	...	...	...	...	25	8	...	...	...	181
Kumsi	46	41	87	77	10	17	56	...	24	3	...	...	...	...	7	10	...	...	...	42
Nagar	117	113	230	165	65	75	138	1	16	3	...	...	...	...	16	3	...	...	...	176
Sagar	172	150	322	240	82	111	191	...	21	28	...	...	...	...	35	3	...	...	...	193
Shikarpur	206	208	414	385	29	133	251	...	136	...	...	...	...	...	31	23	...	...	...	221
Shimoga	212	191	403	374	29	128	252	1	117	6	...	...	...	...	27	43	...	...	...	205
Sorab	268	243	511	478	33	192	271	...	98	7	...	...	...	...	59	26	...	...	...	306
Thirthanalli	143	157	300	225	75	122	158	...	5	26	...	...	...	...	30	13	...	...	...	202
Total	1561	1409	2970	2602	368	1066	1669	3	674	72	1	19	83	263	152	11	2	...	...	1693

TABLE 6 (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 1 year)	1-5 years	5-10	10-15	15-20	20-30		30-40	40-50	50-60	60 and over
BANGALORE DISTRICT.															
Anekal	15	7	5	7	34	20	12	12	10	17	19	20	14	55	213
Bangalore	22	9	12	12	55	46	24	18	12	54	44	37	46	122	458
Channarayana	23	15	7	11	61	33	11	8	7	26	30	26	19	72	293
Closepet	22	22	3	5	52	25	3	8	7	11	11	18	18	43	196
Devanahalli	5	2	4	1	12	13	11	5	6	11	14	9	11	57	149
Dodballapur	19	5	10	6	40	33	20	17	18	33	18	19	25	80	303
Hosakote	8	4	3	5	20	27	19	5	7	32	29	25	12	86	262
Kankambally	22	8	6	3	39	20	17	15	14	30	29	29	30	98	321
Magadi	19	10	8	9	46	33	9	5	7	23	25	34	27	77	286
Nelamangala	29	5	17	6	57	31	11	6	7	20	32	21	18	55	262
Total	189	87	75	65	416	281	137	99	95	257	251	238	220	749	2,743
SHIMOGA DISTRICT.															
Channarayana	20	10	15	5	50	34	18	22	11	50	56	41	38	63	383
Honnali	18	10	20	8	56	34	15	6	9	80	40	42	36	52	320
Kumsi	9	3	5	1	18	10	2	1	9	23	8	10	7	24	87
Nagar	29	5	5	1	40	27	9	7	14	30	45	28	25	42	230
Sagar	33	10	5	3	51	22	14	14	13	44	49	41	40	52	322
Shikarapur	22	3	5	5	35	23	14	17	14	67	70	59	54	49	414
Shimoga	62	10	10	7	89	33	13	8	14	80	61	48	41	71	403
Sorab	28	9	7	4	48	17	10	8	14	52	39	31	33	94	511
Thirthalli	28	9	7	4	48	17	10	8	14	52	39	31	33	94	511
Total	221	60	72	34	387	203	104	92	134	446	427	366	329	482	2,970

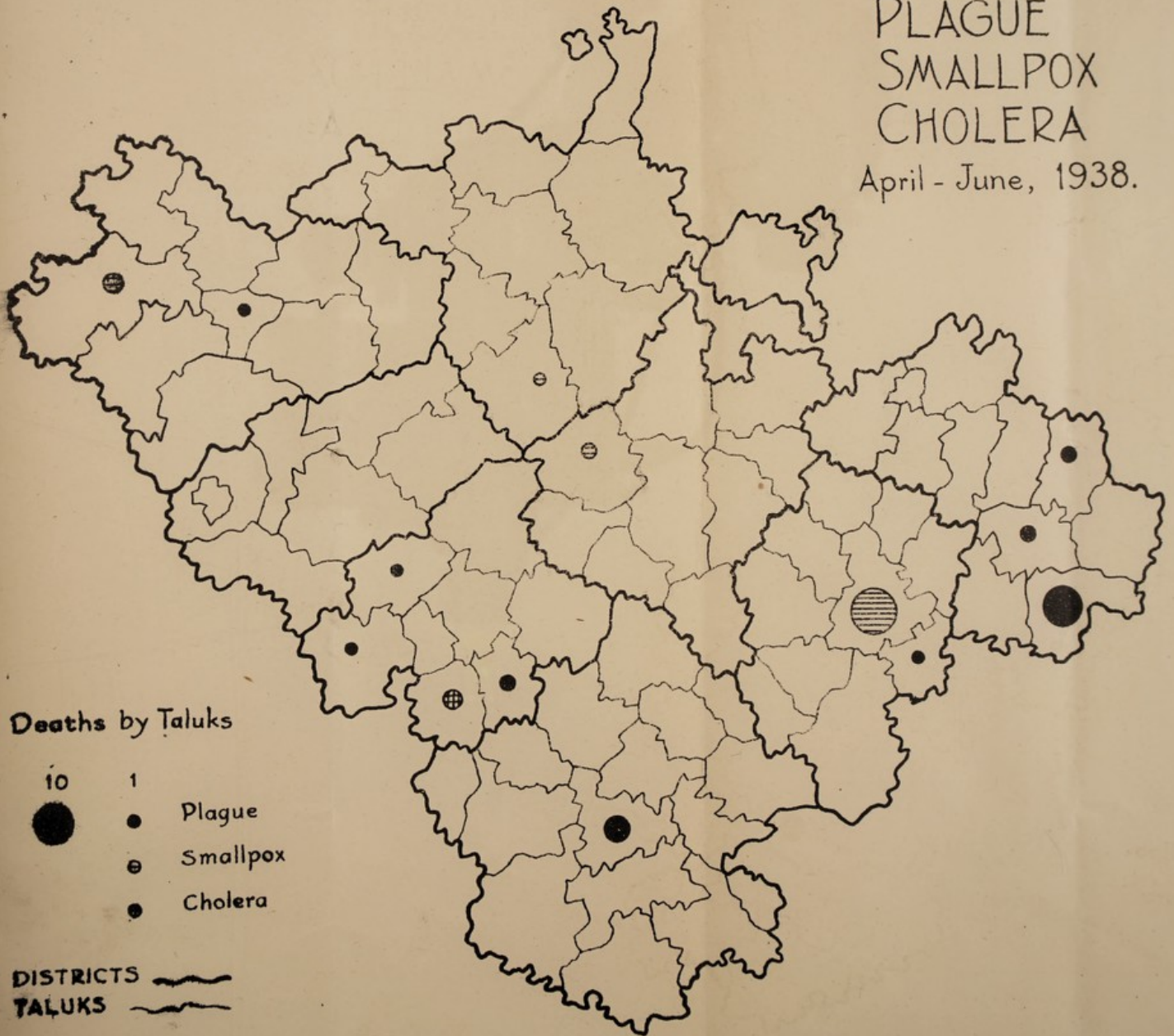
TABLE 6 (a)—concl'd.

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	27	1	...	47	14	18	5	19	16	...	2	1	4	1	...	...	...	58
Bangalore	68	2	...	112	14	55	25	27	40	...	12	...	10	3	1	...	...	83
Channapatna	...	...	7	69	10	25	26	15	20	3	6	1	4	4	...	2	...	102
Closepet	4	...	1	52	18	32	9	13	9	2	9	...	1	4	...	...	...	42
Devanahalli	28	...	1	33	4	13	12	7	4	1	1	...	2	...	...	...	...	48
Dodballapur	69	1	...	78	11	29	14	8	22	7	8	1	4	2	1	...	1	47
Hosakote	90	...	...	53	10	25	11	9	14	1	6	2	...	1	...	...	...	39
Kankanhalli	27	...	...	129	23	15	17	13	21	5	9	3	5	1	2	2	...	49
Magadi	...	...	...	81	28	28	15	9	39	2	4	1	2	7	...	...	...	60
Nelamangala	39	...	3	59	8	14	19	8	26	6	3	2	3	6	1	1	...	64
Total	348	4	12	713	140	265	153	128	211	32	60	11	35	29	3	5	2	592
SHIMOGA DISTRICT.																		
Channagiri	...	1	3	146	42	45	17	22	15	2	12	...	7	1	2	3	...	65
Honnali	2	...	3	117	24	31	11	24	10	1	3	...	2	2	...	1	...	69
Kumsi	4	...	1	25	8	10	3	9	3	...	4	...	2	...	...	...	...	20
Nagar	...	...	4	162	16	9	7	3	2	1	7	...	1	...	...	...	...	17
Sagar	...	...	1	152	27	38	21	18	11	3	15	...	...	...	...	...	...	32
Shikarpur	10	...	3	179	24	52	14	32	7	2	19	2	...	1	...	...	...	69
Shimoga	...	1	5	131	57	55	16	39	11	7	20	...	4	...	1	...	...	55
Sorab	...	1	8	198	42	83	35	27	12	4	23	...	1	...	...	...	...	77
Thirthahalli	...	...	8	132	45	32	10	7	6	...	17	...	2	...	...	...	...	41
Total	16	3	36	1,242	305	355	134	181	77	20	120	6	17	4	4	5	...	445

MYSORE STATE

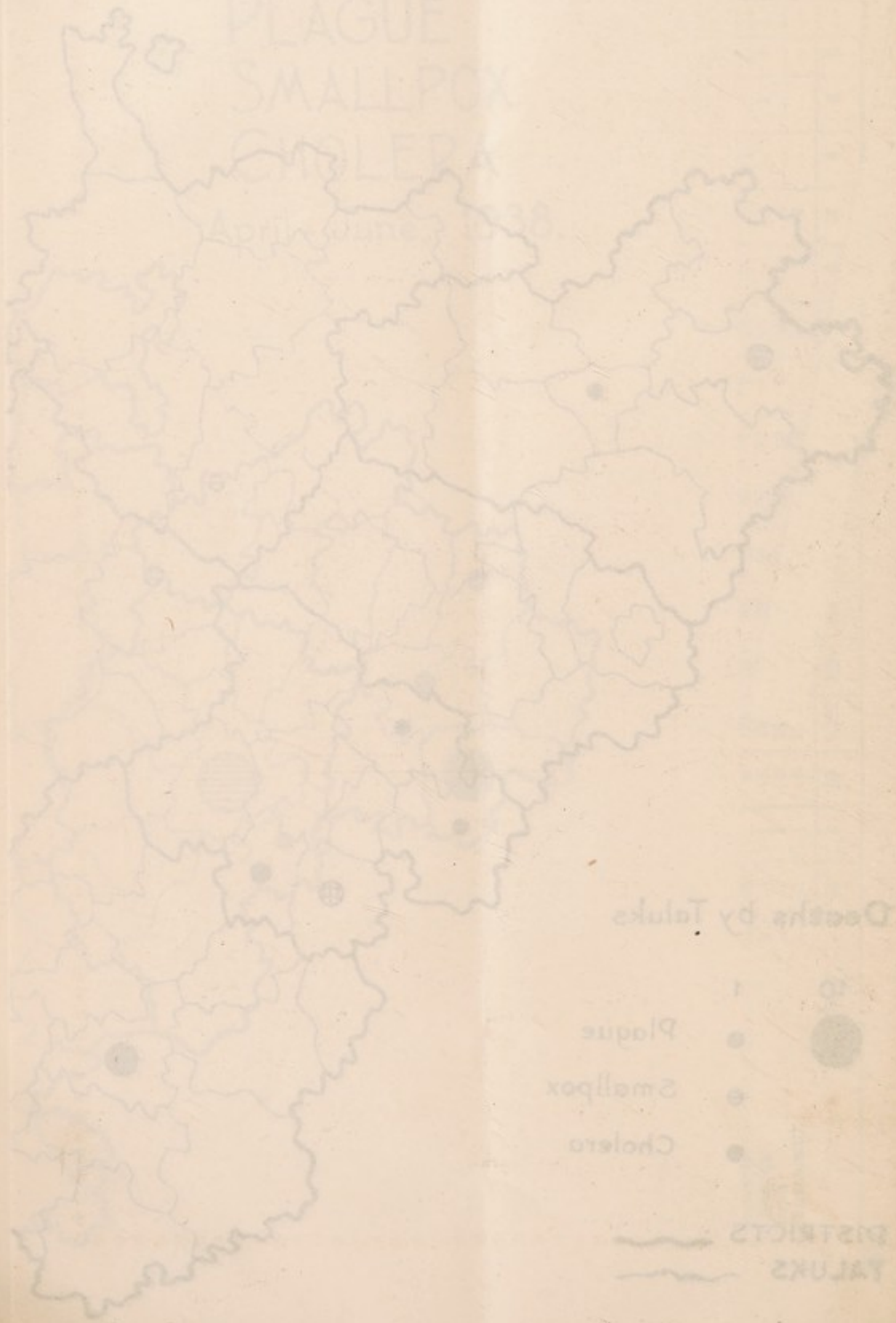
PLAGUE
SMALLPOX
CHOLERA

April - June, 1938.



PLAGUE
SMALLPOX
CHOLERA

April - June 1908



Deaths by Taluks

- (Large shaded circle) Plague
- (Small circle with cross) Smallpox
- (Small solid circle) Cholera

———— DISTRICTS
———— TALUKS

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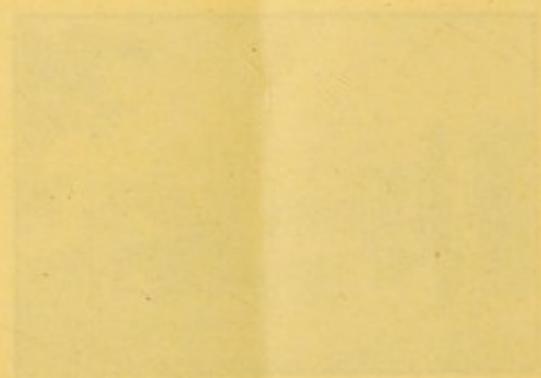
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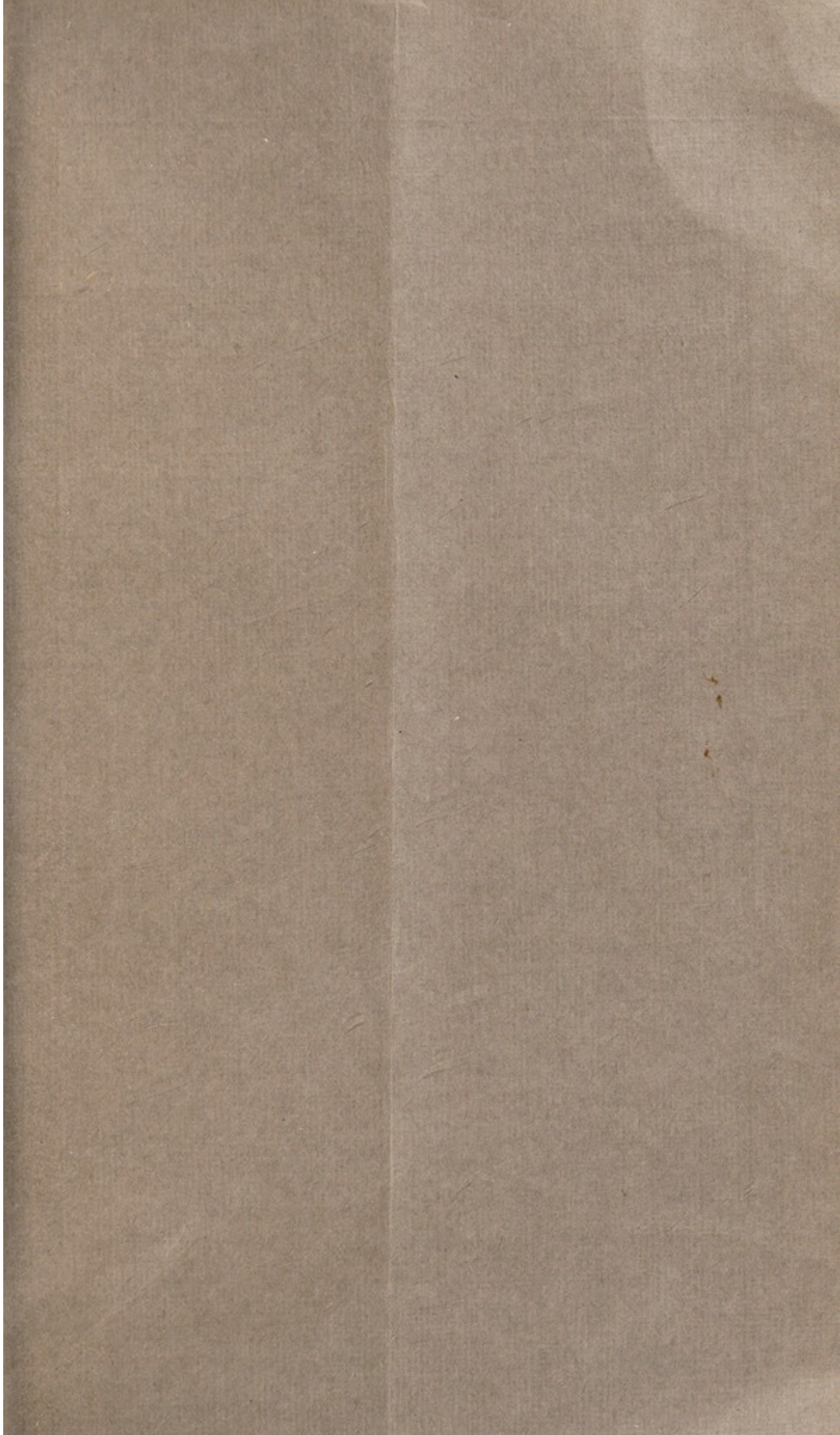
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* Not available.