### **Annual report of the Mysore Department of Health.**

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'PUBLIC HEALTH IS PURCHASABLE, WITHIN NATURAL LIMITATIONS, ANY COMMUNITY CAN DETERMINE ITS OWN DEATH-RATE."

No. 27]

[1932

## ANNUAL REPORT

OF THE

## MYSORE STATE DEPARTMENT OF HEALTH

WITH THE GOVERNMENT REVIEW THEREON

JANUARY 1 to DECEMBER 31, 1932.





BANGA LORE:

PRINTED BY THE SUPERINTENDENT AT THE GOVT. PRESS

1933

"Search for the truth is the noblest occupation of Mankind, its publication a duty."

## MYSORE STATE DEPARTMENT OF HEALTH.\*

### Director of Health

J. V. Karve, M.B., CH.B., D.P.H.

### Honorary Consultant in Health

W. C. Sweet, B.Sc., M.D., DR. P.H.

### Honorary Sanitary Engineer

J. J. Mieldazis, B.Sc., C.E.

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Health Officer, Mysore District.

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## 2. Bureau of Epidemiology and Communicable Diseases

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A. S. Venkatachalam, L.M.S., Officer, Hookworm Campaign. S. Seshagiri Rao, B.Sc., M.B.B.S.,

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Officer, Malaria Stations.

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DR. P.H., Superintendent,
Public Health Institute.

J. A. Iswara Murthi, B.A., L.M.S.,
B.S.Sc.,
Superintendent, Vaccine Institute.

#### 4. Bureau of Vital Statistics

E. R. Sundararajan, M.A. (Hons.), Superintendent.

### 5. Bureau of Health Education

E. Anantha Rao, B.Sc., M.B.B.S., Superintendent.

## 6. Bureau of Sanitary Engineering

B. R. Garudachar, B.A., C.E.,
M.I.M., & Cy.E., M.R. San. I.,
Executive Sanitary Engineer.

K. S. Hutcha Rao, B.A., B.E. (On Deputation to America), Assistant Sanitary Engineer. M. L. Narasimha Iyengar, B.A., B.E., Assistant Sanitary Engineer.

E. B. Chinnappa, B.Sc., B.E.,

Probationer.

#### 7. Bureau of Rural Health

T. Chandrasekharaiya, B.A., M.B.B.S., M.P.H., Superintendent.

<sup>\*</sup>Only officers giving full time service to the Department are included with designation as on December 31, 1932.

# GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

GENERAL AND REVENUE DEPARTMENTS.

G. O. No. G. 3163-85-P. H. 28-33-5, dated 14th November 1933.

Administration Report of the Mysore Health Department for the year 1932.

Reviews the --- .

READ-

The Administration Report of the Health Department for the Calendar year 1932, received from the Director of Health with his letter No. H. E. 100, dated the 29th August 1933.

ORDER No. G. 3163-85—P. H. 28-33-5, DATED BANGALORE, THE 14TH NOVEMBER 1933.

Recorded.

- 2. Dr. Karve, Dr. Sweet and Mr. Mieldazis continued as the Director of Health, Consultant in Health and Sanitary Engineer respectively, throughout the year.
- 3. Bureau of Epidemiology and Communicable Diseases.—(a) Malaria Stations.—The post of a Malaria Officer was created and Mr. Nur Singh. Third Class Health Officer, was appointed to it. The experimental control of malaria by means of paris green was continued in the three malaria stations. Malaria surveys were conducted during the year in the Irwin Canal area and six other places.
- (b) Hookworm Control.—The campaign of mass treatment for hookworm was continued from October 1931 to 9th March 1932 and again during the last quarter of the year 1932. The unit operated in all in 17 places and mass treatment was newly demonstrated in 17 medical institutions

## No. G. 3163-85—P. H. 28-33-5, DATED 14TH NOVEMBER 1933.

of the Shimoga District. It is reported that the medical officers in the heavily infected zone have failed to report the result of the mass treatment undertaken by them. The Senior Surgeon is requested to see that there is better co-operation between the Health and Medical Departments.

Plague and small-pox showed increased mortality over that for the previous year accounting for 7,232 and 2,980 deaths respectively, as against 5,715 and 2,296 during 1931. The reasons for the increase have not been assigned. The total number of anti-plauge inoculations and vaccinations done during the year was 2,34,295 and 2,45,078, respectively.

- 4. Rural Health Unit.—Cases of plague, diarrhœa and vomiting, small-pox, measles and typhoid were reported in the Mandya Rural Health Unit area. The two midwives attached to the unit visited 5,406 maternity cases in addition to conducting 66 labour cases. In the early part of the year, soon after water was turned on in the Maddur Branch of the Irwin Canal and irrigation was commenced in a few villages, it was found that the number of musquitœs was on the increase and by April, malaria attained epidemic proportions, six villages being affected very severely. With a view to determine the local conditions, a health survey in the Irwin Canal area was undertaken with a Government grant of Rs. 15,000 for free distribution of quinine and other relief measures in the affected area. Government have since passed orders sanctioning the establishment of a Health Unit for the Irwin Canal area to combat malaria. The question of starting Rural Health Units in other parts of the State was deferred on account of financial stringency.
- 5. Bureau of Health Education.—The Bureau continued to receive the assistance of the Rockefeller Foundation during the year. In all, 22 articles on health subjects were published in local [Kannada and English newspapers and leaflets and posters on small-pox, plague, soil polution and bore-hole latrines were printed in large numbers and freely distributed through the Agency of the Revenue, Educational and Local Boards authorities.
- 6. Bureau of Laboratories.—(a) Public Health Institute.—In addition to the normal work done in the Public Health Institute, extra bacteriological work was done in the Institute in connection with the investigation of the

## No. G. 3163-85—P. H. 28-33-5, DATED 14TH NOVEMBER 1933.

causes for the prevalence of typhoid in the Bangalore City. On account of the large expenditure incurred on materials, in this behalf, the question of levying fees for the examination of specimens received from the Bangalore City Municipality is engaging the attention of Government.

- (b) Vaccine Institute.—Lanoline lymph continued to be manufactured and the total quantity issued within the State during the year was enough for 2,32,177 cases. Owing to the non-completion of certain important structures in the Institute, the manufacture of Glycerine lymph was not undertaken during the year. The income and expenditure of the Institute during the year were more or less equal, being Rs. 24,829 and Rs. 24,796, respectively; the latter includes a sum of Rs. 6,000 spent on the acquisition of new land for the extension of the Institute.
- 7. Bureau of Vital Statistics.—The total number of births recorded during 1932 was 115,627, showing a decrease of about 4,000 as compared with the figures of the previous year. The birth rate during the year was slightly less than in 1931, the rates being 17.79 and 18.64, respectively, Kolar District having returned the highest rate, viz., 20.85, and Hassan, the lowest, viz., 11.36.

The total number of deaths reported during the year was 88,175 against 94,265 in 1931 giving a death rate of 13.57 and 14.67, respectively. The total number of deaths among children under one year of age was 11,026 against 9,863 in the previous year, showing an increase of 1,163. Births exceeded deaths in all the districts except Kadur.

8. Bureau of Sanitary Engineering.—The activities of the Bureau increased with the addition of the control of all the water-supplies in the State except that of the Bangalore City. Nine existing water-supplies were equipped with chlorinators during the year. The other work of the bureau was carried on on the same lines as in the previous year. Mr. J. J. Mieldazis, whose services had been kindly lent to Government by the Rockefeller Foundation has since returned to America. Government desire to place on record the valuable services rendered by Mr. Mieldazis, during the three years of his stay in the State.

## No. G. 3163-85—P. H. 28-33-5, DATED 14TH NOVEMBER 1933.

9. General.—Mr. P. Parthasarathy was re-transferred from the Serum Institute to the Health Department as Health Officer, Bangalore City.

Mr. V. Narasimhamurthi, Second Grade Health Officer, who had been deputed to Calcutta, returned after obtaining D. P. H., D. T. M. of that University. Two more officers have since been deputed to Calcutta during the current year for study of D. P. H.

H. V. RAMASVAMI, Secretary to Government, General Department.

To-The Director of Health in Mysore.
Dr. W. C. Sweet, B.Sc., M.D., DR.P.H.
The Senior Surveyon in Mysore

The Senior Surgeon in Mysore. The Chief Engineer of Mysore.

The Deputy Commissioners of Districts.

The Presidents of District Boards.

The Municipal Commissioner, Bangalore City, through the President.

The President, City Municipal Council, Mysore.
The President, Kolar Gold Field Sanitary Board.
PRESS TABLE.

Exd.—c. K.

W D 867—GPB—400—15-12-33

OFFICE OF THE DIRECTOR OF HEALTH WITH THE GOVERNMENT OF MYSORE.

Bangalore, dated 30th August 1933.

FROM

J. V. KARVE, Esq., M.B., Ch.B., D.P.H.,

Director of Health, Government

of His Highness the Maharaja

of Mysore, Bangalore.

To

R. RANGA RAO, Esq., B.A., B.L.,
Offg. Chief Secretary to the Government
of His Highness the Maharaja
of Mysore, Bangalore.

SIR,

I have the honour to submit herewith the Annual Report of the Mysore State Department of Health for the calendar year 1932 for favour of perusal of Government. The report has been modelled on the basis of work done in the seven Bureaux at present organised and it is hoped it will be read with interest.

2. It has been found beneficial to divide the report into two parts, Part II dealing entirely with Vital Statistics. The Tables in Part II have all been thoroughly revised and made clear and comprehensive. The special feature of these Tables is the arrangement of Taluks and Municipalities alphabetically with statistics of births, and deaths from the different diseases listed. Another important feature is the computation of rates on estimated populations in the middle of the year instead of on the stationary census population.

3. A delay of about 3 months in the submission of the report has been unavoidable as the requisite statistics

were not received from the districts in time.

I have the honour to be,
Sir,
Your most obedient servant,
J. V. KARVE,
Director of Health.

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## ANNUAL REPORT

OF THE

## MYSORE STATE DEPARTMENT OF HEALTH

No. 27.] January 1 to December 31, 1932.

### GENERAL

In the year under report the state of public health in Mysore State was normal. Agricultural crops were reported to be above the average and prices of food grains were low. Rainfall of 48 inches was recorded and in all districts it was above the average. Climatic conditions in respect of temperature and humidity were also favourable for low incidence of epidemics. When outbreaks of epidemic diseases did occur, preventive measures were promptly undertaken, with the result that during the year the State had to face only minor epidemics.

Malaria broke out in the Irwin Canal Tract in an epidemic form but measures were soon adopted to check its spread by free distribution of quinine under proper

supervision.

In order to estimate the change in health conditions of the Irwin Canal Zone, a health survey of the area was also made with the sanction of Government.

As a result of a forecast of the probable outbreaks of smallpox in 1934, leaflets were printed and circulated in English and Kanarese emphasizing the need for immediate vaccination.

An appraisal of health activities was made in the cities of Bangalore, Mysore and Kolar Gold Field and recommendations regarding improvement were made to the Municipalities concerned.

Lt. Col. H. H. King, Director of the King Institute, Guindy, suggested the making of a rat flea survey of the State on the lines done in the Madras Presidency. Trained personnel was kindly supplied by the Colonel and

the survey undertaken covered Mysore City, Sira, Davangere, Sagar, Shimoga, and Kolar Gold Field. One of the officers of the department was associated with the survey

party for necessary training in this work.

Proposals submitted to Government for the introduction of the Standard Certificates of Death, were approved. "Physicians' Pocket Reference" was printed and supplied to the private practitioners and medical officers of hospitals for help in the classification of the causes of death according to the International list.

The present unsatisfactory state of reporting of vital occurrences is expected to be relieved by the introduction of the new registers of Births and Deaths and of cards for the notification of Epidemic Diseases, sanctioned by Government in their Order No. 5676-87—P. H. 75-30-12,

dated 11th February 1933.

Government directed that when the president or the vice-president of a municipality is a member of the Public Health Committee he should *ipso facto* be the chairman of

that Committee.

In Order No. G. 9181-91—Sany. 7-27-107, dated 20th May 1932, Government directed that in districts where there are whole-time health officers, the vaccination staff should be placed under their control. Modifications were effected in regard to the rules for the training and employment of vaccinators and the issue of original and duplicate certificates.

In furtherance of the Rural Health Organization Scheme, a committee was formed to examine the nature and extent of co-operation and financial contribution to be had from local bodies. The chairman and members of the committee were respectively the Revenue Commissioner, the Director of Health, Dr. W. C. Sweet, Mr. B. K. Garudachar, Mr. A. V. Ramanathan, Mr. C. S. Kuppuswamy Iyengar and Mr. B. S. Puttaswamy, with the Superintendent of the Bureau of Epidemiology and Communicable Diseases, as Secretary. The committee studied the question at two meetings and forwarded proposals to Government for consideration.

During the year Government were pleased to transfer the entire control of water supply in the State, except the New Water Works of Bangalore City, to the Bureau of Sanitary Engineering.

Government Order No. G. 8617-19—P. H. 69-31-6, dated 30th April 1932, placed the Bureaux of Epidemiology

and Communicable Diseases, Vital Statistics and Health Education in charge of officers designated superintendents.

At the Public Health Institute, 522 specimens were examined during the year in the Chemical Section, 10,312 in Bacteriological Section and 633 articles for Medicolegal work.

Vaccine lymph enough for 416,170 cases was prepared

at the Vaccine Institute.

The Central Health Committee met twice during the year.

Mr. Mardy Jones, an ex-member of Parliament, visited

the Department and made a study of the organization.

The Director was on tour for 71 days on inspection work and as usual attended meetings of the Mysore City Improvement Trust Board, Central Health Committee, Thippagondanahalli Reservoir Committee, the Representative Assembly, the Legislative Council, etc. He acted as Honorary Secretary and Treasurer of the Mysore State Branch of the Indian Red Cross Society, with Sir Charles Todhunter as Chairman of the Executive Committee.

Mr. P. Parthasarathy was posted from the Serum Institute as Health Officer, Bangalore City. Mr. K. R. Venkatesan was confirmed as third class health officer. Messrs. A. S. Venkatachalam, S. Seshagiri Rao and V. Narasimhamoorthy were confirmed as supernumerary second class health officers. Mr. V. Narasimhamoorthy who was on deputation to Calcutta, obtained the diploma of D. P. H.

Mr. B. R. Garudachar, who was deputed to America for training in Sanitary Engineering, returned and assumed charge as Executive Sanitary Engineer on 25th May 1932. Mr. E. R. Sundararajan, who was deputed to America on Rockefeller Foundation Fellowship for training in Vital Statistics returned and resumed charge on 7th December 1932. Mr. K. S. Hutcha Rao was also deputed to America for training in Sanitary Engineering and Water Supply.

## BUREAU OF ADMINISTRATION.

## (a) City Health Organizations.

Bangalore City (Population 172,357).

Mr. S. Ramachandra Rao held charge of the Health Office till 7th April 1932 when he was relieved by Mr. P. Parthasarathy, reverted from the Agricultural Department, and the latter continued to be the Health

Officer till the close of the year.

The area of the city is 13 square miles or 7,796 acres with 19,550 inhabited houses. The average number of persons per house is 8.8. The city is divided into nine divisions. The following table gives the population, births and deaths with rates according to divisions:—

Division	Popu- lation	No. of Births	No. of Deaths	Birth	Death rate
. High Ground, Palace, and	9,254	134	94	14.4	10.2
. Balepet (including Railway Ouarters.	27,687	643	704	23.2	25.4
. Manavarthpet and Mill Area ;	38,227	1,285	1,178	33.6	30.8
. Ulsoorpet	19,855	1,698	994	85.3	50.1
. Nagarthapet	8,487	309	267	36.4	31.5
. Visveswarapur, Mavally, Lal-Bagh, and Kalaspalya.	15,819	534	412	33.8	26.1
. Shankarpur,  Gavipur, Fort, and Chamarajpet.	21,548	560	448	25.9	20.8
. Basavangudi, and Guttahalli.	12,191	431	232	35.4	19.0
. Malleswaram, Seshadri- puram, and Srirampuram.	19,289	449	380	23.3	19.7
Total	172,357	6,038	4,709	35.0	27:3

The existence of the Government Maternity Hospital in it accounts for the high birth rate recorded in division 4.

Of the total births registered, 3,049 were male and 2,989 female. Two thousand, four hundred and fifty-four of the births were conducted in the Maternity Hospital and 1,608 by the municipal midwives. Thus 67.24 per cent of the births were under skilled aid. The still-births during the year numbered 219 against 170 in the previous year.

Four thousand, seven hundred and nine deaths under various causes were registered. Nine hundred and ninety-eight of them were reported from the following public institutions and have been included in the divisions wherein the institutions are situated:—

1.	Mental Hospital	 24
2.	Victoria Hospital	 418
3.	Central Jail	 5
4.	Epidemic Diseases Hospital	 171
5.	Maternity Hospital	 380
	and and the same of the same o	
	Total	 998

There were eight sub-registrars of births and deaths for registration of vital events, four whole-time and the rest part-time who are vaccinators, as well. The registrars'

work was checked by the sanitary inspectors and occasionally by the City Health Officer during the rounds of inspection.

One thousand, and forty deaths among infants under one year of age were reported, giving an infant mortality

rate of 172.7 per 1,000 live births.

There were reported 260 attacks and 125 deaths from smallpox. Necessary measures to prevent the spread of the disease were adopted. A total of 12,227 vaccinations was performed, of which, 6,851 were primary and the rest re-vaccinations.

One hundred and forty attacks with 115 deaths from plague were registered during the year. Timely preventive measures, such as disinfection, isolation, inoculation etc., were adopted. Fifteen thousand, seven hundred and eighty-four anti-plague inoculations were performed, giving a rate of 137 persons immunised for each death.

Thirty-nine deaths from typhoid fever were reported during the year as against 29 in the year previous. Five hundred and ninety-six anti-typhoid inoculations were given. Two hundred and seventy-five samples of water, 42 of motion, 36 of urine and five of blood were sent to the Public Health Institute for examination for enteric.

One thousand, three hundred and six houses were disinfected as against 522 in 1931. The disinfection work was undertaken by a gang of 15 men working under a

trained sanitary inspector.

Five whole-time sanitary inspectors were on work and the number of houses inspected by them was 8,940. Five thousand, four hundred and sixty-eight notices were issued for sanitary defects under the various sections of the Municipal Regulation. Prosecutions were launched in 1,184 cases, 262 of which were convicted, 42 withdrawn, 22 acquitted and four struck off, and the remaining were pending at the close of the year. The amount of fine realized was Rs. 402-4-0.

Eleven suspicious lepers and 65 vagrants were removed

to the Epidemic Diseases Hospital.

Three hundred and ten rodents were examined for plague during the year. Fifty-three were doubtful, 190 negative and 67 positive. Two hundred and forty-seven rats and six bandicoots were destroyed. This is a very poor number for the size of the city.

The City Health Department organized small health exhibitions for the Welfare Institute of the Bangalore

Woollen, Cotton and Silk Mills Company, Ltd., Bangalore and the Sri Sharada Stri Samaja, Chamarajpet, as an adjunct to the health week and baby show arranged by them. The exhibitions were very popular and well attended.

The management of the water-supply remained as in previous years with the Public Works Department. Samples of water from the public taps and Jewell Filters were examined bacteriologically every week. A high standard of purity was maintained except on a few occasions.

The sanitary staff regularly inspected the markets

and rectified the defects noticed.

The Health Officer and his staff inspected the hotels, eating-houses and aerated-water factories to improve their internal sanitary condition. Particular attention was paid to the cleanliness of the cooking utensils, cups and plates and protection of prepared articles against flies and dust.

# Statement of Sanitary improvements done during the year.

1.	Number of fly and dustproof cases provided	137
2.	Pit latrines converted into daily conservable	62
3.	Latrines improved	512
4.	Newly constructed latrines in private houses .	100
5.	Pits filled up	27
6	Sweetmeat shops, hotels, eating-houses, etc., improved	07
7.	Compound walls constructed	40
8.	Dangerous and dilapidated buildings, sheds etc.,	
	demolished or improved	119
9.	Removal of insanitary sheds	. 18
10.	Flush latrines introduced in private houses	4
11.	Windows newly opened	138

Seventeen samples of ghee, 14 of butter, one of milk, five of coffee powder, six of aerated water, three of bread and one each of Mysorepak, Boondi and gram-flour were analysed and examined regarding their fitness for human consumption. Sixteen samples were declared unfit for human consumption and action is being taken under the Adulteration Regulation and the Municipal Regulation.

A sample of "Boondi" was seized at a marriage party in Malleswaram where about 150 cases of food poisoning, causing diarrhoea, vomiting with collapse but no deaths, were reported among persons who partook of this stuff. On bacteriological investigation, it was found to be contaminated with Bacillus Prodigiosus. This seems to be the first known case of food-poisoning bacteriologically confirmed in Mysore State.

One thousand, and eleven stray dogs were destroyed at

a cost of Rs. 49-15-0.

The special malaria staff continued to carry on the anti-malaria operations as in the previous years. Details of the work appear elsewhere under the Bureau of Epi-

demiology and Communicable Diseases.

A special spleen survey was undertaken by the Superintendent, Bureau of Epidemiology and Communicable Diseases in July. One thousand, six hundred and twenty school children were examined, giving a spleen rate of 0.7. One hundred and seventy-six blood smears were examined and seven were found positive, giving a parasite rate of 3.9.

The Hygiene class of the Medical School, Bangalore and Medical College, Madras, visited the malaria station

during February and March, respectively.

In connection with the health exhibition opened at the Primary and Middle School Teachers' Conference, a section on malaria was organized by the City Health Department.

A sanitary mobile police force consisting of a sergeant and six constables was entertained since June for detection of nuisances committed on public thoroughfares, etc., removing unauthorized encroachments, preventing the sale of unwholesome articles of food.

In Epidemic Diseases Hospital, Bangalore, 83 cases of plague and 96 of smallpox were admitted, of which, 57 of plague and 15 of smallpox died, giving mortality rates

of 69 and 15 per cent, respectively.

The total strength in the Leper Asylum, Bangalore, during 1932 was 169. In four cases there was considerable improvement under treatment and in 24 the disease was arrested and the cases were discharged. Forty-nine cases were otherwise discharged and eight proved fatal. The treatment adopted varied. Alepol, Extractum Cactus Benzoina co., Anti-leprol and E.C.C.O. were used. No one course could be pursued due to the prohibitive cost of the drugs.

Eighty-two cases in different stages of tubercular affection sought admission. Of these, six were cured, 18 were relieved of acute symptoms, 20 discharged at their own request and 29 died resulting in a mortality rate of 32.6 per cent. All afebrile cases were given Sanatorium treatment coupled with exposure to sunlight and graduated exercises. Codliver oil with sodium morrhuate injection and systematic dieting were mainly resorted to in the treatment of other cases.

Civil and Military Station, Bangalore.—Five thousand three hundred and twenty-two births with a birth-rate of 39.71 and 3,884 deaths with a death-rate of 28.98 were recorded. One thousand and seventy-four infants under one year died, giving an infant mortality rate of 201.8 per 1,000 births registered.

During the year under report plague prevailed in the Station, one hundred and twenty-six attacks with 101 deaths having been registered. Eleven thousand, seven hundred and thirty-seven anti-plague inoculations were done.

Sixty-seven attacks with 28 deaths from smallpox, 118 attacks with 1 death from chicken-pox and 126 attacks with 26 deaths from enteric were reported. A total of 17,546 vaccinations, and 572 anti-typhoid inoculations were performed.

The Station was free from cholera.

The maternity and childwelfare work was continued as in previous years. The lady health visitor paid 13,552 domiciliary visits. Three thousand, nine hundred and twenty-one pregnant women attended the antenatal clinics.

Anti-malaria work was carried out systematically by oiling pools and ponds. In addition, the draw wells were stocked with larvicidal fish, supplied by the Mysore Health Department.

In the laboratory, smears from 7,530 rodents were examined for plague, of which, 31 were positive and 9 suspicious. Six samples of milk, 1 of butter, 2 of ghee, 3 of water, 1 of blood and 4 of aerated water were also analysed.

Mysore City: Population 107,122.

Mr. M. G. Sreenivasa Peidpet, L.M.s., B.S.Sc., continued to be the Health Officer during the year under report.

Two thousand, seven hundred and sixty-nine births were registered as against 2,803 in 1931. The birth-rates for 6 years (1927-1932) are here given:—

1927	DATOR ROLL		31'16
1928	Mala Brand		20.63
1929	while I guiton		25.21
1930	ALL STEELY STEEL		29.50
1931	Herw AT he	1102:00	26.10
Quinquennial average	and for	Rolo ol	26.52
1932	Lauteeganl	17 T	25.84

Two thousand, six hundred and twenty-four deaths were registered yielding a death rate of 25.42 per mille as against the average rate of 27.37 for the previous five years.

1927	***		27'55
1928			33.21
1929			30.85
1930		a vyolujos	38.50
1931	s illian lo &	han	30.50
Quinquennial ave	erage	engia William	27.37
1932	nelé mi en	Bod puro	25.42

A comparison of the tables shows that the birth and death rates for the year under report are about the same and that Mysore has consistently been registering lesser number of births than deaths since 1927. The population however has increased during the last decade showing thereby that the registration is very defective. The Health Officer is requested to rectify the defect in the system of registration of vital events.

Seventy still-births were registered as against 97 in

the year previous.

Three hundred and twenty-nine deaths of infants under one year of age were recorded, yielding an infant mortality rate of 111.59 as compared with 105.60 during 1931.

Two hundred and fifty six attacks with 175 deaths from plague were reported. Twenty thousand, nine hundred and eight anti-plague inoculations were done.

One hundred and thirty-one attacks with 57 deaths from smallpox, 24 fatal cases from influenza and 15 from typhoid were registered. Thirteen thousand, eight hundred and ninety vaccinations were performed of which 6,835

were primary. Five thousand, three hundred and ninety-

four primary cases were reported successful.

The Health Officer and his staff inspected 1,730 premises and issued 189 notices under various bye-laws under the Municipal Regulation. In 80 cases, the terms of the notices were complied with. Two hundred and thirty-four prosecutions were launched, of which, 89 were convicted, 22 acquitted, 75 withdrawn and 48 were pending disposal at the close of the year. A sum of Rs. 297-8-0 was realised as fines.

The Veterinary Inspector in charge and the Sanitary Staff inspected the slaughter houses and mutton stalls regularly. The meat supplied was of good quality. Forty-five thousand, nine hundred and seventy-one sheep, 19,481 goats, 2,420 bullocks, 1,508 cows and 629 buffaloes were slaughtered. The Health Officer and his staff inspected coffee hotels, eating houses, bakeries, and aerated water factories.

In the laboratory attached to the Health Office, 317 samples of water and 3 of milk were bacteriologically analysed. In addition, 3 fæcal samples, 1 urethral smear and 119 rodents were examined. Twenty-four of the rodents were found positive for plague.

Lectures with the aid of lantern slides, were delivered on plague, smallpox, cholera and other health subjects in

the various mohallas.

The malaria control operations were continued during the year by the Special Malaria Unit maintained by the Municipality. In August, a spleen survey was made by the Superintendent, Bureau of Epidemiology and Communicable Diseases. Of the 1,717 children examined, 67 showed enlarged spleens of various sizes, the spleen rate being 3.9 as against 11.7 in 1930 and 7.5 in 1927. The citizens have appreciated the benefits of the operations.

One thousand, four hundred and fifty-two stray dogs

were destroyed.

A sum of Rs. 62,533 was expended on various sanitary improvements in the city as detailed below:—

Public convenience		 Rs. 27,453
Water-supply Drainage works Anti-malaria operations		 5,166 <b>2</b> 8,966
delicate Arman albana fonder la semantage	 Total	948

Private associations like the Gunamba Maternity and Childwelfare Trust, the Civic and Social Progress Association and the City Branch of the Indian Red Cross Society, have been carrying on childwelfare work in the City. In the various centres established by these associations babies were bathed, fed on milk, weighed and medically advised. Ante-natal clinics are held and expectant mothers are advised. These centres are run at a cost of Rs. 19,200 per annum.

In the Epidemic Diseases Hospital, Mysore, 485 patients were admitted for treatment. Of these 1 case was for cholera, 70 for plague, 47 for smallpox, 80 for

tubercular affection and 10 for leprosy.

Kolar Gold Field: (Population 85,103).

Mr. M. Ramachandra Rao, B.A., M.B.B.S., C.P.H., held charge of the office of the Medical Officer of Health, Kolar Gold Field, till the 28th April 1932 when he was relieved by Mr. G. N. Seshadri, L.M.S., D.P.H. The latter continued

in charge till the close of the year.

During the year under report 2,796 births with a birth-rate of 44.28 per mille were recorded as against 3,267 births and a birth-rate of 38.38 during 1931. Of the total births 36.51 per cent were in the Sanitary Board Area and the rest in the Mining Area. The following table gives the birth-rates for 10 years 1923-32.

Year.		R	ate per mile.
1923			38'58
1924		•••	40.67
1925			38'01
1926			39.40
1927			38'12
1928			38'67
1929	THE RESERVE		38.18
1930			33'85
1931			38'38
1932			44.58

Eight hundred and thirty or 22.02 per cent of births were conducted in the Government Maternity Hospital, Robertsonpet, and the Maternity Ward of the Champion Reef Dispensary, 1,578 or 41.86 per cent by qualified midwives and dais, and the rest under unskilled aid. It will be seen that 63.4 per cent of the births received skilled aid.

The Mining authorities maintained 9 midwives and the Sanitary Board 2, one of whom was attached to the Champion-Reef Dispensary. A total of 2,595 deaths from all causes was recorded as against 2,300 during 1931. The rate per mille of population was 30.49, as against 27.02 in the previous year. The death-rates for the last 10 years are given below:—

Year.		D	eath-rate.
1923	John 71 611		23.08
1924	100.9	andre.	28'15
1925	Dispense H	S 100	25.43
1926	ieg siesbinus		26 18
1927			21.19
1928			24.40
1929			25.05
1930			25.25
1931	A		27.02
1932	10 Yes . R. M.	ish	30'49

It is observed that the death-rate reached maximum in 1932.

The deaths classified according to age-groups are as hereunder:—

Sl. No.	Age Group				one of	No. of deaths	Percentage of total deaths
1	Unde	r 1 ye	ar	- X		692	26.67
2	1 ar	nd und	ler 5			480	18*49
3	5	;.	10	·		98	3.77
4	10	,,	15.			71	2.74
5	15	,,	20			77	2'97
6	20	"	30	400	2	254	9'79
7	30	,,	40			204	7'86
8	40	**	50			173	6*67
9	50	,,	60			138	5.35
10	60 a	nd abo	ove		90000	408	15.72

Deaths distributed according to causes are tabulated below:—

	Cause of dea	Number of deaths	Percentage to total deaths		
1	Plague	(p. 650)	2011	121	4.58
2	Smallpox			13	0.20
3	Malaria			161	6.50
4	Typhoid			14	0.20
5	Influenza			33	1.27
6	Consumption			82	3'16
7	Pneumonia		Dug.	293	11'29
8	Dysentery, diarrhoea,	etc.		300	11'56
9	75 1 1 71			273	10.52
10	Suicide			2	.07
11	Snake bite			2	.07
12	Accidents			111	4.27
13	Premature births, etc.			35	1.35
14	4.11 /1			1,157	44.58

During the year, 203 attacks with 121 deaths from plague and 80 attacks with 13 deaths from smallpox were registered. Plague chiefly affected Robertsonpet, Andersonpet, Oorgaum village and the Mining Area. Eighteen thousand, four hundred and sixteen anti-plague inoculations and 38,250 vaccinations were done. The percentage success rate among primary vaccinations was 87.48 and revaccinations 51.11. Fourteen deaths under typhoid, 33 under influenza, 300 under diarrhoea occurred.

Six hundred and ninety-two children under one year of age died yielding an infant mortality rate of 183.6. This is slightly more than in 1931 (179.36).

The following table gives the infant mortality rate for ten years, 1923-32.

	Year		Infant mortality rate	Year			Infant mortality rate
1923			187*80	1928			193'15
1924			198'54	1929			195'93
1925		/	199.82	1930			206.80
1926			196'53	1931			179'36
1927			184'26	1932			183.10

Deaths classified according to causes were, small-pox 3, malaria 1, influenza 3, diphtheria 1, fever 5, dysentery 9, diarrhœa 35, bowel complaints 5, pneumonia 32, debility 299, bronchitis 36, asthma 1, premature births 35, consumption 1, convulsions 136, malnutrition 72, and all other causes 18.

Filtered and chlorinated water is supplied from Bethamangala to the Mining Area and Robertsonpet.

A scheme costing Rs. 13,000 for extending the filtered water-supply to Andersonpet and the cooly colonies attached to it was sanctioned and the work was put on hand. An estimate to equip a step-well in Soregowdankote village with a hand pump was sanctioned and the work is under progress. The drinking water wells of Kalkere, Pichapalli, Kadaregowdankote, Lakkapalli, Imarspura, Byraganhalli, Thammenhalli and Kudigal were improved. New wells were provided for Reddihalli and Masikam.

# A resume of work done in the Laboratory during 1932.

	Nature of work.	Number or quantity.
1.	Water from Bethamangala	 26
2.	Liver and Spleen of cattle for Anthrax	 60
3.	Blood for Widal	 8
4.	Rats examined for plague	 70
5.	Blood smears for malaria	 4
6.	Urine for albumin and sugar	 21
7.	Smears for gonococci	 13
8.	Motion for amoebae	 4
9.	Sputum for B. Tuberculosis	 1
10.	Smear for diphtheria	 1
11.	Milk analysed	 13
12.	Ghee analysed	 12
13.	Sparrows for plague	 2
14.	Crows for plague	 1
15.	Dogs' brains sent to Coonoor	 39
16.	Persons recommended for anti-rabic	
	treatment	 77

Three hundred and sixty-three persons were treated in the Epidemic Diseases Hospital, Robertsonpet, during the year under report. Of these 210 were discharged, 134 died and 19 remained over on the last day of the year, as per statement:—

Nature of Disease	Total admitted	Dis- charged	Died	Remained over on 31st Dec. 1932	
Plague		196	71	108	17
Pneumonia		7	3	4	100
Pyrexia		34	28	6	1
Rheumatism		1	1		
Smallpox		76	64	12	
Syphilis		1	1		3110
T. B. Lungs		1	1		the lines
Other infectious diseas	28	26	1	1	
Diabetes	es	1		1	moels.
Other diseases of the I					
ratory system		1		1	A SU COMMISSION
Other discourse		3	3	1 40 4	DINE TO SOM
		9	9	***	
Cases of poisoning  Total		9	9		The state of the s
		363	210	134	19

The practice of licensing dogs continued during the year. One thousand eight hundred and fifty-six dogs were killed with strychnine hydrochloride. Two hundred and sixty-one dogs which had bitten persons were kept under observation for rabies. Thirty-nine dogs' brains were sent to Coonoor for examination. Seventy-seven persons were recommended for anti-rabic treatment.

Pits and hollows were all drained to prevent stagnation of water and mosquito-breeding. Removal of rank vegetation and destruction of cactus was undertaken on a large scale. Two hundred and ninety notices for sanitary offences were issued during the year and 23? cases against 236 persons were launched in the court. Of these, 156 cases were withdrawn as the parties complied with the terms of the notices. Twenty-seven persons in 24 cases were convicted and 52 cases were pending disposal at the close of the year. A sum of Rs. 53 was realised in the shape of fines.

School-going children in 10 villages were examined during the year by the Health Officer and suitable advice

given where defects were noticed.

Three of the villages, Soregowdankote, Neralkere and Ithandahalli were converted into model villages at a total cost of Rs. 1,500 by providing protected water-supply and borehole latrines and opening out new streets and lanes.

## (b) District Health Organisations.

Bangalore District.—(Population 10,80,413).

During the year 22,452 births, giving a birth rate of 20.6 per mille were registered, as against 23,418 births with a birth rate of 21.6 during the previous year.

A total of 14,412 deaths was recorded as against 15,274 deaths during 1931. The death-rates worked up

to 13.3 and 14.1 respectively.

Two thousand, two hundred and twenty-five children under one year of age were reported dead, yielding an infant mortality rate of 99.1 per 1,000 live births registered.

Plague prevailed in all the taluks accounting for 1,031 attacks and 605 deaths. A total of 69,492 anti-plague

inoculations was performed.

Smallpox accounted for 470 attacks with 77 deaths. Twenty-two thousand, one hundred and twenty-six vaccinations and revaccinations were done. The taluks most affected were Bangalore, Dodballapur, Magadi, Closepet, Chennapatna and Anekal.

The District was free from cholera, influenza and

relapsing fever during the year.

The District Medical and Sanitary Officer visited 10 places on epidemic duty. He inspected during his itinerary 103 schools, examined 4,195 children, and prescribed treatment for 1,036 children. The common ailments noticed by him were skin disease (scabies), ear, nose and

eye complaints and digestive disorders.

The 13 Municipalities in the District spent Rs. 887-12-0 on drainage works, Rs. 796-3-0 on water works and Rs. 7,341-1-3 on other sanitary improvements. In all, they issued 330 notices for sanitary offences of which 233 were complied with, 37 prosecuted and 18 pending disposal at the close of the year. A sum of Rs. 64-8-0 was recovered as fines. The Municipalities employed in all 151 sweepers besides the supervision staff.

Mysore District.—(Population 15,11,126).

Mr. G. M. Dominick, M.R.C.S., D.P.H., continued to be

the District Health Officer throughout the year.

Twenty-one thousand, two hundred and ninety-two births giving a birth-rate of 14.08 per mille and 17,618 deaths with a death-rate of 11.65 per mille were registered.

One thousand one hundred and seventy-nine infants under one year of age were reported dead, giving an infant mortality rate of 53 02 per 1,000 births registered. This

is too low to be accepted as anything near correct.

One thousand nine hundred and five, 301,557 and 14 deaths were accounted for by plague, cholera, small-pox and measles respectively. On receipt of information of outbreak of plague, anti-plague measures such as inoculation and disinfection were instituted and medical aid rendered.

Twenty-eight thousand five hundred and eighty-four primary and 2,241 revaccinations were performed by the vaccinators. The medical subordinates did 2,907 primary and 722 revaccinations. Twenty-seven thousand and fifty primary and 323 revaccinations were reported successful.

Malaria prevailed in almost all the taluks in the District and to a severe extent in parts of Mandya taluk brought under irrigation under the Irwin Canal. Free

distribution of quinine was resorted to.

The District Health Officer visited all the major and minor Municipalities on routine inspection duty and attended 8 jatras for making necessary sanitary arrangements. The drinking water sources at the jatras were all

treated with perchloron.

Twenty-four Municipalities in the District incurred an expense of Rs. 8,994-11-6 on drainage, Rs. 4,425-2-0 on water works, Rs. 2,235 on dwelling houses and Rs. 9,745-13-1 on other sanitary improvements. Five hundred and sixty-five notices were issued. Four hundred and forty-seven were complied with, 34 prosecuted and 95 were pending disposal at the close of the year. Rs. 40-12-0 were recovered in the shape of fines. Two hundred and ninety-two sweepers were employed in all.

Hassan District.—(Population 596,937).

Six thousand eight hundred and one births and 6,463 deaths were registered, working up to birth and death rates of 11.4 and 10.3 per mille of population respectively.

Seven hundred and forty-eight infants under one year of age were reported dead, giving an infant mortality

rate of 109.9 per 1,000 live births registered.

Plague prevailed in 35 villages of 6 taluks, 399 attacks with 249 deaths having been recorded. The taluks of Channarayapatna, Arsikere and Arkalgud were the worst affected. Timely preventive and curative measures

were adopted. Eleven thousand seven hundred and

fifty-nine anti-plague inoculations were done.

Two fatal cases of cholera were reported from Begur village in Channarayapatna taluk. Prompt action was

taken to prevent the spread of the disease.

One hundred and eighty-four attacks with 31 deaths from smallpox were reported from 20 villages. Hassan and Hole-Narsipur taluks contributed 64 and 41 attacks and 12 and 6 deaths respectively. Seventeen thousand nine hundred and thirty-seven vaccinations and revaccinations were performed.

Malaria prevailed in all the taluks. Quinine was

freely distributed through all the available agencies.

Influenza accounted for 30 deaths.

Five major and 3 minor jatras were held during the year. Necessary arrangements for conservancy, water-supply and lighting were made. Temporary roads were constructed to facilitate traffic.

The District Medical and Sanitary Officer was out on tour for 95 days visiting 50 places and inspecting 10 schools. He treated 597 children in the schools inspected.

The expenditure on the principal sanitary improvements in the 12 Municipalities of the District amounted to Rs. 19,191-12-7, Rs. 9,859-13-6 being on drainage works, Rs. 5,497-6-1 on water works, Rs. 493-0-0 on rest-houses and Rs. 3,353-9-0 on other sanitary improvements. One hundred and sixty-three sweepers in all were employed.

Two hundred and forty-nine notices were issued under the Municipal Regulations, of which 196 were complied with, 17 prosecuted, and 36 pending disposal and action.

Fines to the extent of Rs. 30 were recovered.

Kadur District. - (Population 3,47,715).

Five thousand and two births and 5,383 deaths were recorded yielding birth and death rates of 14.4 and 15.2 respectively. It will be noticed that deaths exceed births by 381. Five hundred and seventy-six infants under one year were reported dead, giving an infant mortality rate

of 115.2 per 1,000 live births.

Plague prevailed in a virulent form in Chikmagalur, Kadur and Tarikere taluks and Narasimharajpura subtaluk, affecting in all 66 places. The towns of Chikmagalur, Birur and Tarikere suffered most. There were reported a total of 559 attacks with 437 deaths. With the co-operation of the Medical Department, all precautionary measures were adopted to combat the spread of the

disease. A total of 14,579 anti-plague inoculations was

performed.

Smallpox accounted for 161 attacks and 38 deaths. Eleven thousand seven hundred and twenty-six vaccinations were done.

Malaria was no less severe than it was during the preceding year accounting for 2,926 deaths. Free distribution of quinine was resorted to through the agencies of Sanitary Inspectors, Amildars, Sub-Assistant Surgeons and Village Panchayets. The demand for quinine from rural parts is increasing year after year, the people having realised the value of the drug.

Systematic administration of quinine to school children through the Sub-Assistant Surgeons in charge of dispensaries in the Malnad Areas was continued during the year with very good results. The District Medical and Sanitary Officer visited 13 towns and 22 villages and the medical subordinates 101 villages. They inspected 34 schools and examined 1,150 children and treated 334.

Rupees eight hundred and sixty were spent on drainage, Rs. 13,999-15-0 on water works and Rs. 3,594 on other sanitary improvements by the nine Municipalities

in the District.

One hundred and twenty-nine notices for sanitary defects were served, of which 84 were complied with and 40 were pending disposal. One hundred and fifty sweepers in all were employed.

Shimoga District.—(Population 519,987.)

A total of 9,787 births and 8,312 deaths were reported giving birth and death rates of 18.8 and 15.9 respectively per mille of population. The infant mortality rate was 123.2.

Plague was reported from Shimoga, Channagiri, Honnali and Sorab taluks. In all, 85 villages were infected, 57 in Shimoga, 16 in Channagiri, 8 in Honnali and 4 in Sorab taluks. There occurred in all 472 attacks and 333 deaths, Shimoga taluk alone reporting 334 attacks with 248 deaths. A total of 23,293 anti-plague inoculations was done.

One village in each of Channagiri and Honnali taluks reported a case of cholera, of which one proved fatal.

Malaria prevailed extensively in the taluks of Sagar, Nagar and Thirthahalli and to a lesser extent in some villages of Shimoga, Shikarpur and Sorab taluks. The District Board made arrangements for free distribution of quinine in the affected areas. Five important cattle fairs were held in the District. Necessary arrangements for the sanitation of the places were made. There was no outbreak of any epidemic at the fairs.

The District Health Officer visited 45 villages on epidemic duty. During his itineration, he examined 2,473

children in 73 schools.

In the 12 Municipalities in the District, a sum of Rs. 1,565-1-5 was expended on drainage, Rs. 2,238-14-0 on water works and Rs. 3,178-15-11 on other sanitary improvements. They employed 143 sweepers.

Two hundred and ninety-eight notices under sanitary sections of the Municipal Regulations were issued, of which 208 were complied with, eight prosecuted and 82

were pending disposal at the close of the year.

Chitaldrug District.—(Population 6,56,569.)

During the year under review, 13,000 births and 9,663 deaths were registered. The birth and death rates worked up to 19.8 and 14.7 per mille of population. A total of 1,125 infants under one year of age died, giving an infant mortality rate of 86.5 per 1,000 live births registered. Plague prevailed in rather a severe form in all the taluks, excepting Challakere, Molakalmuru and Hiriyur accounting for 825 attacks and 519 deaths. The usual preventive measures were adopted. Twenty-seven thousand nine hundred and seventy anti-plague inoculations were performed.

The District was practically free from smallpox excepting for three attacks, two in Holalkere taluk and one in Davangere taluk. The District Medical and Sanitary Officer and his subordinates visited 210 villages on epidemic duty. The Sub-Assistant Surgeon, Harihar,

inspected three schools, examining 213 children.

Following rainfall, malaria prevailed in many villages.

The District Board distributed quinine tablets free.

During the year under report, five new guinea-worm well works were sanctioned at an aggregate cost of Rs. 6,430. Two well works were abandoned and 10 were completed with an outlay of Rs. 3,094.

The 11 Municipalities in the District spent Rs. 60,911-14-9 on sanitary works, Rs. 25,401-2-0 being on drainage, Rs. 13,642-2-3 on water works and

Rs. 21,868-10-6 on other sanitary improvements.

Six hundred and fifty-eight notices were issued under various health sections of the Municipal Regulations, of which 406 were complied with, 122 prosecuted and 130 were pending disposal. A sum of Rs. 317 was realised as fines. One hundred and fifty-seven sweepers in all were employed.

Tumkur District:—(Population 861,405.)

There were reported 16,662 births and 10,153 deaths, yielding birth and death rates of 19.2 and 11.8 per mille respectively.

One thousand six hundred and sixty-two infants under one year of age were reported dead, yielding an infant

mortality rate of 99.7 per 1,000 births registered.

Plague prevailed in a few villages of all the taluks, except Madhugiri, Sira and Pavagada and the towns of Tumkur, Tiptur and Gubbi. In all, 40 villages were affected reporting 380 attacks with 249 deaths. Seven thousand and ninety-nine inoculations against plague were done.

Smallpox prevailed in a mild form, few villages in each of Kunigal, Tumkur and Pavagada taluks reporting cases. Twenty-one thousand one hundred and twenty-two vaccinations and revaccinations were done.

A mild epidemic of malaria was reported from the taluks of Pavagada, Sira, Chiknayakanhalli, Kunigal and Koratagere. The Sub-Assistant Surgeons accompanied by the range Sanitary Inspectors visited the villages and rendered medical aid.

The Sub-Assistant Surgeon of Koratagere continued to pay bi-weekly visits to Rampura village to treat malaria

patients.

The major jatras in the District, viz., Kyamenhalli, Nagalmadike, Patnaikanhalli, Yediyur and Seebi, were held in the year under report. Sanitary arrangements were made at each of those jatras for daily removal of rubbish, providing temporary latrines and safe drinking water supply.

The District Medical and Sanitary Officer visited eight villages on epidemic duty and 22 on routine inspection and the Medical subordinates 113 on epidemic duty. Thirty-three schools were inspected, four by the District Medical and Sanitary Officer and the rest by the medical subordinates. They examined 2,306 children and treated 695.

The 10 Municipalities in the District spent Rs. 9,005-15-4 on drainage, Rs. 40,951-14-6 on water works, Rs. 655 on dwelling houses and Rs. 9,085-3-7 on other sanitary improvements. One hundred and seventy-seven sweepers in all were employed by them.

Out of a total of 236 notices issued, 197 were complied with, nine prosecuted and 30 were pending disposal.

Kolar District.—(Population 8,49,037).

Seventeen thousand eight hundred and sixty-two births with a birth-rate of 21.0 and 13,549 deaths with a death-rate of 15.9 and 2,076 deaths among infants under one year of age with an infant mortality rate of 116.0 were recorded.

Plague prevailed in a severe form in the District, nine of the taluks reporting infection. A total of 510 attacks and 300 deaths were reported, of which Chintamani (138-96) and Kolar (122-69) taluks were the worst affected accounting for 260 attacks and 165 deaths. Chikballapur taluk reported 90 attacks with 48 deaths and Malur 91 attacks with 53 deaths. Twenty-three thousand two hundred and twenty-three anti-plague inoculations were performed.

Two hundred and fourteen attacks with 27 deaths from smallpox were reported from four of the taluks, Kolar being the most affected with 117 attacks and 14 deaths, Goribidnur coming next with 74 attacks and nine deaths.

Two hundred and twenty-two villages were inspected by the District Medical and Sanitary Officer and medical subordinates, 78 by the former and the rest by the latter. They inspected 20 schools in all and examined 1,493 children.

Ten jatras were held in the District. In none, there was any epidemic outbreak. Usual sanitary arrangements were made.

The 11 Municipalities in the District spent Rs. 6,481 on drainage, Rs. 4,807 on water works, Rs. 245 on dwelling houses and Rs. 8,515 on other sanitary improvements. One hundred and sixty-two sweepers were employed by them all.

## (c) Voluntary Organisations

Indian Red Cross Society, Mysore State Branch.—
The Director of Health continued as the Honorary Secretary and Treasurer of the Mysore State Branch of the Indian Red Cross Society and Sir Charles Todhunter, K.C.S.I., J.P., Private Secretary to His Highness the Maharaja of Mysore, as the Chairman of the Executive Committee.

In accordance with the suggestions made by Miss Norah Hill, Organising Secretary, Headquarters, the work of the Society was grouped into three sections, namely, (1) General, (2) Junior Red Cross and (3) Maternity and Childwelfare, each under the management of an honorary secretary. The Director of Health and the Director of Public Instruction were appointed Honorary Secretaries to the General and Junior Red Cross sections respectively, while Mrs. Kamalamma H. Dasappa accepted the office of Honorary Secretary, the Maternity and Childwelfare section.

Dr. Ruth Young, M.B.E., W.M.S., Director of Maternity and Childwelfare Bureau, Headquarters, visited Mysore State in August 1932. She inspected the work of several childwelfare centres at Bangalore and Mysore. She gave a public lecture at Mysore on Maternity and Childwelfare and attended one of the meetings of the Mysore City Branch of the Red Cross Society.

The Society suffered a great loss in the death from plague of Rao Bahadur Dharmaprakasha Sowkar D.

Banumaiah, who was one of its benefactors.

During the year, a successful health and baby week was organised at Mysore, which secured a certificate of merit from the All-Empire Baby Week Committee, London, having been declared the second best in the world. The occasion was availed of to open two more maternity and childwelfare centres, a Toddlers' centre in Gajasala and a creche at the Krishnarajendra Mills.

Five hundred and ninety-three persons were enrolled as members during the year, of which 2 were as life-associates, 46 as members, 358 as associates, 162 as helpers and

15 as annual members.

The Bureau of Health Education carried on the

secretariat work of the Society during the year.

The Society gave donations to the extent of Rs. 1,400 to several institutions. The Junior Red Cross groups were started in nine High Schools. First Aid and Home Nursing Classes were held in 20 institutions and certificates were issued to successful candidates in the examinations on the subjects. Books on Health were sold to school students. The Mysore State team won the Obedulla Shield and money prize in the All-India Ambulance Competitions held at Lahore.

With a view to push on the Anti-Tuberculosis work, a sub-committee was formed. A donation of Rs. 500 was received from the headquarters to facilitate the work of

the committee.

Civic and Social Progress Association, Mysore.—During the year under report, 1,874 ordinary baths and 1,815 oil-baths were given to the children attending the centre The average daily attendance at the centre was 25. Three thousand two hundred and eighty-one and quarter seers of milk were distributed to poor children. The nurse in charge conducted two labour cases and vaccinated 26 children.

Civic and Social Progress Association, Bangalore.—
This Association runs a milk centre and a baby clinic at which antenatal clinics are also held. The average daily attendance of babies at the centre is 40. These are given baths daily and oil-baths occasionally. The honorary lady doctor prescribes the feeds, notes down the progress in weight and attends to minor ailments. Milk to the value of about Rs, 1,000 was distributed. The lady doctor held 12 clinics and examined 910 expectant mothers. The nurse in charge paid 60 domiciliary visits and conducted 38 labour cases. Eight children were vaccinated at the centre.

Sree Gunamba Maternity and Childwelfare Trust, Mysore.—In the month of March 1932, two more centres, the Subramanya Milk Centre and Mallamma Milk Centre, were opened in addition to the three already existing. A creche was also opened in the third quarter of the year in

the Sri Krishnarajendra Cotton Mills.

Thirty-seven thousand three hundred and thirty-two ordinary and 5,983 oil-baths were given to the children attending the centres. The honorary lady doctors held clinics which were very popular. They held 25 antenatal and 28 baby clinics, examining 2.3 pregnant women and 943 children. They also treated 11,658 children for minor ailments. The average daily attendance at the clinics was 60. All children attending were fed on pure cow's milk. The nurses in charge paid 694 domiciliary visits and conducted 466 labour cases. They also did 381 primary vaccinations.

Childwelfare Centres, Kolar Gold Field.—All the four centres were working during the year under review. Five thousand four hundred and thirty-two children were given daily baths and 1,184 were treated for minor ailments. The Lady Health Visitor and nurses paid 2,641 pre-labour

and 3,199 post-labour visits.

Mahila Seva Samaja, Bangalore —Ante-natal and baby clinics were regularly held every week by Dr. Miss Rozario

and Miss Vaz. The attendance at these clinics was 510 and 1,943 respectively. The lady doctors examined and suitably advised the expectant mothers. They also treated 350 children for minor ailments. The nurses attached paid 35 domiciliary visits a week and conducted

20 labour cases for the year.

Dr. Mrs Ratnamma Isaac delivered a series of lectures on health subjects such as "Common Ailments of Women," "Care of Women during Pregnancy" and "Common Ailments of Children and their Simple Remedies." There was a lecture on "Temperance" by Miss. Narayana Das. Miss Sappo spoke on "Social Work in England," especially that of the Leister Sisters at Kingsley Hall. Twelve lectures on "First Aid" were also delivered and two cinema shows on health subjects were screened.

Two boys were given clothing free and two cod-liver oil.

Seva Ashram, Malleswaram, Bangalore City.—On an average, 150 children were given soap water bath every day, soap being distributed free. Lectures were delivered on health subjects, such as plague, small-pox, cholera and temperance. The Ashram dispensary catered to many of the local residents. An Ayurvedic lady doctor with maternity training joined the staff during the year.

Childwelfare Centre, Military Area, Hebbal, Bangalore.—The Social Welfare Committee, Military Area, Hebbal, runs the centre under the management of the Medical Officer, Mysore State Troops, Station Hospital, and the Lady Doctor, Female Dispensary, Hebbal. The

centre is located in the Station Hospital.

The Lady Sub-Assistant Surgeon held nine weekly antenatal and baby clinics during the third quarter of the year. Eighty pregnant women and sixty children attended them. She weighed the children once a week and prescribed the feeds and attended to their minor ailments. Milk was distributed free to the poor children resident in the locality.

The nurse in charge paid 2,778 house visits, and

conducted 13 labour cases.

Six lantern lectures were delivered during the quarter,

July to September 1932.

Gurukula Seva Sangha. Kengeri.—During the half year, July to December 1932, 106 lectures on health

subjects aided by lantern slides were delivered in the rural areas. Pamphlets on various subjects were distributed. Thirty-six baths were given to the depressed class children in the locality. Free clothing was supplied to 30 children.

The Sangha organised a health exhibition at Yalahanka. It was attended by 2,000 factory workmen and raiyats from the neighbouring villages. The attendance in the outpatients' department of the dispensary run by the

Sangha at Kengeri was 4,435.

The Shimoga Baby Clinic.—Baby clinics were held every Saturday. The babies were weighed and their progress noted. Their ailments were attended to. As an adjunct, antenatal clinics were started during the year, which gained popularity in no time. A good number of expectant mothers attended the clinics for advice. They were thoroughly examined, pelvic measurements taken and advised. Venereal cases amongst them were also treated.

## BUREAU OF EPIDEMIOLOGY AND COMMUNICABLE DISEASES.

#### (a) Malaria Control Work.

During the year 1932, as per Government order No. G. 8617-19—P. H. 69-31-6, dated 30th April 1932, the former Malaria Officer was made Superintendent of the Bureau of Epidemiology and Communicable Diseases, and third class health officer, Mr. Nur Singh, formerly in charge of Mudigere Station, became Malaria Officer under this bureau. Consequent on the retirement of Mr. M. Muniswamy, Mr. Cheluvarayan was placed in charge of Hiriyur Station after some months of training. The vacant post at Mudigere was filled by the transfer of Mr. K. R. Venkatesan from the Mandya Rural Health Unit.

The experimental control of Malaria by means of paris-green continued in the three stations of Nagenhalli, Mudigere and Hiriyur. The control area around the village of Nagenhalli and the town of Mudigere was reduced during the year from one mile to half a mile radius. There was no apparent effect on the control by the end of the year. As was done last year, all control work was stopped in the Mudigere area for the last four months of the year. This is the only one of the three stations which seems to have one definite transmission

season. During these months, the staff was engaged in routine larval and adult catching to verify the absence of carrier species and in a sanitary survey of the town preparatory to possible later establishment of more complete health work.

Anti-malaria operations in Bangalore and Mysore cities continued during the year. Paris green for open water and Gambusia for wells were the methods employed. An examination of 777 children in Mysore city gave a spleen rate of 3.9 per cent. Previous examinations in 1927 and 1930 had given rates of 7.5 and 11.7 per cents respectively. An examination of 1,622 children in Bangalore city gave a spleen rate of 0.7 per cent. This was the sixth successive yearly examination, the previous yearly rates being 23.2, 11.5, 8.7, 6.1 and 0.6 last year.

After an initial year of observation, an experiment in the use of small weekly doses of plasmoquine compound as the only measure of control of malaria was begun in Marikanave village early in 1930. The necessary drug was purchased from a grant made by the Chitaldrug District Board and the distribution of the drug once a week, as well as the necessary spleen and blood examinations, were undertaken by the staff of Hirivur Station, which is 12 miles away. The response of the people was satisfactory and it was found possible to treat from 90 to 95 per cent of the village population each week. Examinations made during the year of observation, 1929, gave a parasite rate of 50.3 per cent and a spleen rate of 84.5 per cent. Examinations made during 1932 gave corresponding rates of 12.5 and 46.7 per cents. During 1932, the Chitaldrug District Board found it impossible to renew its grant and the stock of plasmoquine compound was exhausted in August. By the end of the year, there were signs that the parasite rate would increase. Spleen and blood examinations will continue.

Malaria control work began in Nagenhalli and Mudigere Stations early in 1930 and in Hiriyur in April 1931. Examinations made in the Nagenhalli area in 1929, before control, gave parasite and spleen rates in children below ten years old of 37.5 and 83.9 per cents. The 1932 examinations of children in Nagenhalli village, for which complete control was attempted, gave parasite and spleen rates of 8.2 and 50.8 per cents. In the three surrounding villages, which were protected only partially, the 1932 rates were 18.1 and 63.8 per cents.

In the Mudigere area, the 1929 pre-control parasite and spleen rates were 31.0 and 78.6 per cents in children under ten years old. A 1932 examination of children in a village three miles from Mudigere town gave corresponding rates of 28.6 and 85.7 so that there was no evidence of a decline of malaria in this region as a whole. The 1932 rates for Mudigere town children were 7.7 and 51.0 while two partially protected villages in the peripheral area gave rates of 12.7 and 83.1 per cents.

In the Hiriyur area, the pre-control parasite and spleen rates were 33.7 and 43.1 in 1929 and 47.9 and 57.3 in 1930. In 1932, the rates for Hiriyur town were 13:7 and 36.3 while two partially protected neighbouring villages had rates of 19.9 and 26.11. Control work in

this area began in April 1931.

Since dissections made in previous years of mosquitoes caught in houses of the stations had yielded low infection rates, it was decided to try tent catching of anophelines in 1932. This method was tried in two villages near Mudigere town and in Marikanave after plasmoquine distribution had ceased. Two men slept in the tent and mosquito catches were made at 8 P.M., midnight, 4 A.M. and 6 A.M. Of 50 anophelines thus caught in the Mudigere area, on dissection, one gland infection was found. In Marikanave, 102 mosquitoes were caught in the tent and on dissection, three stomach and two gland infections were found.

In addition to the tent collections, mosquitoes were taken in the usual catching stations of Marikanave. Of 343 anophelines so caught, eight stomach infections and

none of glands infections were found.

Subsequent to the partial irrigation of the new Irwin Canal area, an epidemic of malaria occurred. Dissections were made of 707 anophelines caught in houses of this area in October and November. Infections were found in sixteen stomachs and ten glands.

Malaria survey of the marginally noted towns or rural areas of the State were done during the year and recommendations made for control measures. By

the end of the year, no action had been taken on these recommenda-

tions.

1. Sivasamudram.

Akkihebbal 3. Chatnahalli

<sup>4.</sup> Hosakote town 5. Bhadravathi 6. T.-Narasipur 7. Irwin Canal Area

### TABLE 1.

# Blood and Spleen Examinations made in three Experimental Malaria Stations.

## Protected Zone.

		0-9	,	9112	10-1	9	20	and	over	A	ll ag	es
	х.	Inf.	nt Inf.	X.	Inf.	cent Inf.	Ex.	Inf.	ant Inf.	Ex.	Inf.	cent Inf.
5 0 0 7 1	No. Ex	No. I	Per cent	No. Ex	No. In	Per ce	No. E	No. Ix	Per cent	No. E	No. In	Per ce
Spleen not examined Spleen Negative P	14 492 146	5 35 28	35·7 7·1 19·2	11 216 89	0 19 11	0.0 8.8 12.4 18.2	53 126 19	47 5 1 8	7.5 4.0 5.3 15.0	78 834 244	9 59 40	11:5 7:1 16:4
1 2 3 4	187 99 38 3	49 22 7 1	25·7 22·2 18·4 33·3	88 76 22 1	16 14 3 0	18·4 13·6 0·0	20 20 21 4 2	8 2 0	15·0 9·5 0·0	295 195 81 8	67 39 12 1	22.5 20.6 14.8 12.6
All persons with palpable spleen.	478	106	22.4	276	44	15.9	86	9	10.5		159	19:8
Frand total, all spleens	979	146	14.9	503	63	12.5	265	18	6.8	1737	227	18:
Spleen rates	965	473	49.0	492	276	56.1	212	86	40.6	1659	825	49-

## TABLE 2.

# Blood and Spleen Examinations made in three Experimental Malaria Stations.

## Peripheral Zone.

DE CERT		0-	,	100	10-1	0	200	and	over	1	111 00	enio.
		0-	4		10-1	3	20	and	over	1	All ag	es
TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TW	No. Ex.	No. Inf.	Per cent Inf.	No. Ex.	No. Inf.	Per cent Inf.	No. Ex.	No. Inf.	Per cent Inf.	No. Ex.	No. Inf.	Per cent 1nf.
Spleen not examined  Spleen negative  P  1  2  3  4  5	8 200 40 77 43 17 2	3 21 8 21 11 6 0	37·5 19·5 20·0 27·3 23·2 35·3 0·0	8 76 31 30 20 12 2	3 8 5 7 9 3 0 0	37·5 10·5 16·1 23·3 45·0 25·0 0·0 0·0	19 21 10 9 3 3 1	5 4 2 1 1 1 0	26·3 19·1 20 0 11·1 100·0 33·3 0·0	35 297 81 116 66 32 5	11 33 15 29 21 10 0	81:4 11:1 18:5 25:0 31:8 18:7 0:0
All persons with palpable spleen.	179	46	25 6	96	24	25:0	26	5	19 2	301	75	24-9
Grand total, all spleens	387	70	18.1	180	35	19.4	66	14	22.2	633	119	18:
Spleen rate	379	179	47.2	172	96	9.8	47	26	55.8	598	301	50-

TABLE 3.

Species of Malaria Parasites.

Peripheral Zone.

January 1, to December 31, 1932.

				NA	NAGENHALLI	HAI	TT			2.11318	MUI	MUDIGERE	RE					HIRIYUR	XUR								
		V Dat	( )	Kalastwadi Siddalingapu and Laxmipur	stwadi Siddalin and Laxmipur	iddal	ingar	oura	771111	Hess	gal an	Hesgal and Old Mudi- gere	d Mr	-ipi	9 . 0:31	H	Hutchavvanahally Babboor)	tvvanaha	aha]	ly and	-	116		Tota	Total for year	year	
es cellis	Age	Potootal		Benign Tertian	tnangilaM	Tertian	патапо	( strange	petect	парта Тетізап	- Salita	Malignant Tertian		Guartan	nfected	Benign	Tertian	Malignant	Tertian	Quartan	1	ретоети	Benign Tertisn-	-	Malignant naitreT	TEHNING!	Quartan
Tor to an		Landon M. LetoT.	Total Number I	Per cent Inf.	No. Inf.	Per cent Inf.	No. Inf.	Per cent Inf.	Total Number I	No. Inf. Per cent Inf.	No. Inf.	Per cent Inf.	.huI .oN	Per cent Inf.	Total Number I	No. Inf.	Per cent Inf.	.luI .oV	Per cent Inf.	No. Inf.	Per cent Inf.	Total Number II	No. Inf.	Per cent Inf.	Per cent Inf.	.luI .oV	Per cent Inf.
6-0		. 19	9 6	91.6	1	6.5	12 68	62	6	3 33-3	50	5 55.6	1 2	11.1	64	Ξ	26.2	14	33.3	17	40.5	2 07	20 28	28.6 20	0 28-6		0 42.9
10-19		10	8	30-0	C1	20.0	5 50	0.0	9	1 16-7	7.	0.09	22	38.99	19	5	26.3	10	8-98	6	47.4	35	9 25	-	10 28.6	6 16	6 45-7
20 and over				:	1	:	,	:	:	:	:	1	:	:	14	80	21.4	4	28.6	7	20.0	14	3 21	21.4	4 28.6		7 50.0
All ages		- 29	6	31.0	8	10.4	17 58	40	15	4 28-7	8	8 58.8	89	20.0	75	19	25.8	28	30.7	88	44.0 119		82 26	26.9 34	4 28.6	6 53	3 44.5

TABLE 4.

Species of Malaria Parasites.

		Oldin Cita Cita Di		-		
AR		Per cent Inf.	39.5	82.8	22.3	88386-2
TOTAL FOR YEAR	паттапО	No. Inf.	589	218	4	88
)B	Tertian	Per cent Inf.	20.4		4 22-2	24.5
FC	Malignant	No. Inf.	30 20	22.34.4	4	62
AL				00		00
OT	Benign	Per cent Inf.	59 40-1	85.8	10 55.6	90 89-8 26
H		No. Inf.		21	-	-
	petced	Total Number In	147	64	18	229
	Quartan	Per cent Inf.	6 12-0 31 62-0	7 77-8	:	711-9 88 64-4 229
PALAHALLI	-,0	No. Inf.	31		1	98
IA]	Tertian	Per cent Inf.	0.7	111.0		1.9
'AI	tnangilaM	No. Inf.	6		-	7
AI	Тегияп	Per cent Inf.	0.9	0.11	-	t-
H	Benign	No. Inf.	- 63	1		42
-	pataan	Total Number II	14.8 50 13 26.0	6	:	591
		Per cent Inf.	00	23.6	:	1.1
VE	narranQ		6 14	62		20 28-2 10 14-1 59 14 28-7
MARIKANAVE	-	No. Inf.			25.0	2
KA	Malignant naitreT	Per cent Inf.	33.3	9.11		88
RII	transitak	JaI .oN	52-4 14	00	8	20
(A)	Tertian	Per cent Inf.	52.	320-0 17 10 58-8	75.0	57.7
-	Benign	No. Inf.	12 22	10	6	71 41
	petest	Total Number In	5	17	12	
	TEAN 9.	Per cent Inf.	9 81.0	0.03	2 66.7	8-6
JB	Guartan	No. Inf.	6	00	22	14 29.8
XC	Tertian	Per cent Inf.	3,8	3.7	88.8	
IRI	Malignant	No. Inf.	4 13.8	5 83-7	_ 66 _ F	10 21 .8
H		rer cent tint,	Ċ4		0.0	
	Benign		6 65-2	7 46.8	0 0	47 28 48 9
		Total Number In No. Inf.	29 16	15	00	12
_	betreit	Fer cent Inf.	-	-		_
B	Quartan		8 18-7	5 25.0	-	8 22-2
ER		Jul .oM			:	
MUDIGERE	Tertian	Per cent Inf.	5 81-2	65	:	.00
6	tnangilaM	No. Inf.		13	:	18
M	Tertian	Per cent Inf.	20.0	210-01365-0	:	1881-2 86 10 27-8 18 50.0
	Benign	No. Inf.	00		:	10
	petoein	Total Number I	16	92	:	98
н	Trans trans 0.	Per cent Inf.	9 90.0 16	2 66.7	2.99	11.5
LI	Quartan	No. Inf.	6	01	62	188
NAGENHALLI	Tertian	Per cent Inf.	10-01	:	. :	6.9
EN	Malignant	No. Inf.	11-		:	1 6
A.G.	TINTA NO PI	Per cent Inf.	:	00	00	
Z	Benign Tertian			1 33.3	1 33.3	2 12.5
		Total Number I No. Inf.	10	00	00	16 2
1	Lotocka	I and Mark Lot-TP	-	:	-	
		252			ove	60
	Age	HEED !	6	19	20 and over	All ages
		CLL	6-0	10-19	8	All
				4 4	40.0	

Table 5. Larval and Adult Catches in Control Areas.

	-	Janu	January 1, to De	December 31, 1931	, 1931		100000	Janual	January 1, to December 31, 1932	cember 31,	1932	
	778	-				Adult Females	emales					
Species	Nage	Nagenhalli	Hir	Hiriyur	Muc	Mudigere	Nage	Nagenhalli	Hir	Hiriyur	Muc	Mudigere
	Ptd. Zone	Pl. Zone	Ptd. Zone	Pl. Zone	Ptd. Zone	Pl. Zone	Ptd. Zone	Pl. Zone	Ptd. Zone	Pl. Zone	Ptd. Zone	Pl. Zone
		48	91	 0	::	18	99	272	6	6	::	00
		1,087	281	428	800	14	224	1,007	391	984	20 20	17
	81	120			90 co 1	25.5	266	1111	t- 61	20	27.	828
A. jeyporiensis		62	11	:::	959	4,866	75	158	::	11	2,872	7,261
	64	415	73	7117	-=	37	96	653	176	479	13	119
A. maculatus	.00	6	67	:	00	20 00			::	. C3	1	-8
A. insulaefforum	::	11	: 2	::	::			::	::	: :	61	cal :
A. philippinensis	:	= ::	- :	79	· ·	12	01	21		Ŧ ::	1	₹
	- 6	<b>9</b> 61	296 442	757	41	108	345	791	1,986	2,408		56
A. turkhudi	272	527	66	134	120	193	186	387	81	3-8	8 : 18	
varuna				:	:	:	:		4	4	9	

TABLE 6.

Bangalore Spleen Surveys.

on Survey began o	Number Examined	1.6 186 415 175 0.8 831 1.0 515	0.6 1,622
Survey began on July 17, 1931	Number Examined	189 848 147 290 497	1,471
r began on 17, 1930	Spleen Rate	16.4 8.9 7.3 4.2	6.1
Survey	Number Examined	184 295 184 205 327	1,095
began on 15, 1929	Spleen Rate	14.5 12.8 6.1 4.2 7.8	8.7
Survey	Number Examined	145 257 181 213 815	11111
began on 6, 1928	Spleen Rate	26.0 8.5 13.8 8.0 4.8	11.5
Survey	Number Examined	127 188 260 200 161	987
Survey began on June 22, 1927	Spleen Rate	87.5 81.2 21.8 15.2 8.4	23-2
Survey	Number Examined	162 221 156 164 166	859
	Area	Malleswaram Area Chamarajpet Area Basavangudi Area City Area	Total

Table 7.

Larval and Adult Catches in Bangalore City.

		Jan	nary	1, to	o De	c. 31	1931	Ja	nua	ry 1,	to D	ec. 31,	1931
Species		N		er of		vae	E4	N		er of		ae	FI.
		2	8	4	P	Total	Adult F	2	8	4	P	Total	Adult F
A. barbirostris		2	4			6		22	23	5		50	
A. cullcifacies		4	5	3		12	85	64	2	4		70	25
1. fuliginosus	***	9	19 25	15	***	82	157	9	8 85	47	***	18 379	50
1. hyrcanus	***	18	10000			58	6	243			4		300
A. jamesii A. jeyporiensis		6	2	7		15		7	2			9	6
. listonii		5	l ī	3		9	1	27	î			28	1
. maculatus						1		1		1		1	
. maculipalpis								3		2		5	***
. pallidus			***	2	***	2	7		2	***	***	2	10
. subpictus		157	128	75		360	1,063	2004		311	8	3,238	1,34
. stephensi		14	17	8		89	26			1332	4	3,918	127
. vagus	****	13	9	1	***	23	67	30	7		***	37	65

Table 8.

Larval and Adult Catches in Mysore City.

	Best	S ym	Number of	Larvae an	d Pupae		No. of
Species		2	8	4	P	Total	Adult
A. aconitus		2 1	- B	1		B	5
A. barbirostris		51	84	49	2	132	1
A. culicifacies		125	123	33	21	302	339
A. fuliginosus		363	369	201	27	960	410
A. hyrcanus		32	21	8		61	1 2
A. jamesii		38	42	10		90	
A. jeyporiensis				***			
A. listonii		178	113	49	5	345	27
A. maculipalpis	***		***	1		1	
A. pallidus	***	20	31	28		79	2 18
A. stephensi		43	32	24	2	101	18
A. subpictus		567	612	457	118	1,754	1,080
A. vagus		89	71	25	3	188	221

### (b) Hookworm Campaign Unit.

The campaign of mass treatment in the plantations in the Kadur and Hassan Districts commenced on 1st October 1931 and was continued till the 9th of March following. The Unit operated in the following areas:—

- 1. Balehonnur.
- 2. Sangemeswarapet.
- 3. Chikmagalur.
- 4. Lingadahalli.
- 5. Tadasa.

- 6. Saklespur.
- 7. Yeslurpet.
- 8. Sukravarasante.
- 9. Hanbal.
- 10. Arehalli.

The aid of the cinema propaganda was not availed of in this campaign, as it was thought unnecessary to repeat the shows in the same area covered in previous

years.

The hookworm unit field laboratory having been removed to the Public Health Institute at Bangalore, systematic examination of fæcal specimens, both before and after treatment was arranged by sending the samples by post to the Institute. Specimens were collected in seven estates both before and after treatment, except at Kathlekahn where after treatment samples were not received. The details of hookworm infestation are set down in table below:—

Table Showing the Result of Hookworm Examination before and after the Administration of the Treatment.

			Before Tr	ceatment	After Tr	reatment
	Name of Plantati	on	% Infected	Av. Egg. Count	% Infected	Av. Egg. Count
1.	Gantanaik	1	10.0	30	3.6	64.3
2.	Karady Kahn		70.0	1420	4.2	8.3
3.	Kathlekahn		77.1	1705.7		
4.	Uggalli	***	52.6	605.3	ithings.	***
5.	Bettadamane		15.3	69.3	and wil	
6.	Arehalli		84.6	1292.3	10.0	95.0
7.	Biccode		30-0	280	ndi vd	
		162.003	and and a son		Consistill	

On the first April the Health Officer in charge of the Hookworm Unit was drafted for charge of the Irwin Canal tract Health Survey sanctioned in G. O. No. 1446—K. S. S. 4942, dated 12th March 1932. The survey was commenced from Krishnarajasagara where the Canal starts. The survey party which consisted of the Health Officer, two Assistant Sanitary Inspectors, a temporary clerk and three menials, moved in the canal zone visiting the villages and collecting notes in respect of population, registration of births and deaths, history of previous epidemics, etc., from the village officials. Observations of general sanitary conditions as regards the character of soil, site and surroundings, housing conditions, manner of rubbish

disposal, privy arrangements and condition of watersupply were made and recorded. Systematic examinations of all available people in the village were conducted to gauge the degree of malaria, hookworm and other helminthic infections, state of vaccination and other morbid conditions in the locality. Data collected in respect of each village or hamlet together with special recommendations suited to local conditions were drawn up in

individual reports.

The party was in camp till the 1st October, that is, for a period of six months and covered a substantial portion of the area just coming under the new irrigation scheme or likely to come under it in the near future. In all 161 villages including 44 villages situated just outside the canal tract were surveyed. The data obtained and the results of the examination varied to a considerable extent between place to place. However, for comparative purposes the 161 villages are grouped, according to their situation in the area, either commanded by the main canal or by one or other of its several branches as under:—

- GROUP I. Consisting of 25 villages situated in the area commanded by the main canal (6,000 acres).
- GROUP II. Consisting of 23 villages situated in the area commanded by the Maddur branch (30,000 acres).
- GROUP III. Consisting of 36 villages situated in the area commanded by the Cauvery branch (20,000 acres).
- GROUP IV. Consisting of 22 villages situated in the area commanded by the Keragode branch (10,000 acres).
- GROUP V. Consisting of 44 villages situated in the area just outside the irrigable area.

The data obtained with necessary recommendations are embodied in a sperial report submitted to the Director of Health.

Though the findings generally were somewhat similar to what obtained in other parts of the State, certain special conditions seem to have affected the degree of malaria in the area as was evident from a comparative study of previous and present records of survey for splenic index.

During the present survey a systematic examination of all available children in the villages by the Christopher's method of spleen examination was conducted and detailed measurements obtained. The average spleen rates for

the different groups of villages are as given in the table below:-

Table showing the Splenic Indices for the different groups of Villages.

Group	Area commanded by	Number of Villages in the Group	Average Spleen Rate for the Group
I.	The main canal	23	59'8
II.	The Maddur branch	37	59'9
III.	The Cauvery branch	36	37.7
IV.	The Keragode branch	22	20.7
V.	Outside the irrigable area	44	41.0

Forty-eight of these villages were surveyed in previous years. In groups II and III particularly, where 17 villages in each were previously surveyed, a spleen rate of only 11'3 was recorded. These are the groups of villages situated in the area where irrigation has already commenced or likely to be commenced in the near future, the network of canals and distributaries having been completed. Special recommendations were made in respect of these to control malaria. Twenty-one of the villages situated in low-lying tracts were recommended to be shifted to better situations.

During the last quarter of the year, a member of the unit toured in the Shimoga District and visited the Medical Institutions in the following places:—

1.	Shimoga	10.	Agumbe
2.	Chennagiri	11.	Megaravalli
3.	Basavapatna	12.	Devangi
4.	Santhebennur	13.	Humachadakati
5.	Honnali	14.	Nagar
6.	Nyamati	15.	Anjanapura
7.	Shikarpur	16.	Hosanagar
8.	Malur	17.	Bhadrayathi
9.	Thirthahalli		

where the campaign of mass treatment for Hookworm disease of the indigenous population was demonstrated to the local medical officers since this area was not visited in previous years. As this officer had to go on leave the entire district could not be covered. Sixteen institutions still remain which will be taken up in due course.

It may be mentioned here that in spite of several circulars and reminders the response from the several Medical Officers in the heavily infected zones is still not very satisfactory.

Table showing the details of hookworm mass treatment in the heavily infected Districts

D' + '		No. of	No. Trea	ted for Ho	okworm	Total
Distric	36	Medical Institutions	Male	Female	Total	attendance
Shimoga		34	2,116	1,195	3,341	70,166
Kadur		30	3,398	2,125	5,434	164,115
Hassan		42	4,720	2,177	7,051	168,635
Mysore		52	708	94	1,984	234,107

From the table above it is seen that out of an attendance of 637,023 patients only 17,810 were administered the special drugs recommended, thus averaging 2.7 per cent of the total attendance. This is not in keeping with the spirit of the present campaign. Perhaps further visits to the several institutions are needed to understand the difficulty of the Medical Officers and persuade them to lend a more hearty co-operation.

## (c) Control of Epidemic Diseases.

Vaccination.—Government Order No. G. 9181-91—San. 7-27-107, dated 20th May 1932 directed that the District Vaccination Staff be placed under the control of the District Health Officers in Mysore and Shimoga Districts which have full-time Health Officers. This is desirable as the responsibility for the regulation and progress of vaccination in the Districts, as well as the disciplinary control over the vaccinators being vested entirely in the Presidents of Local Bodies, the department has no control over the work of the Vaccinators.

During the year under report 245,078 vaccinations were done as compared with 169,887 in the previous year giving an excess of 75,191 vaccinations. Of these 237,691 were done by the District Board and Municipal Vaccinators and 7,387 by medical subordinates. Detailed statistics of vaccinations done in each District and the computed

success rates are given in Table 9, both for primary and for re-vaccinations. Particulars of vaccinations done by the medical subordinates are given in Table 10.

An average number of 169 vaccinators was employed during the year doing 1,406 vaccinations per vaccinator

on the average against 944 in 1931.

In district board and municipal vaccinations the success rate in Mysore State was 83'37 in primary and 44'47 in re-vaccinations. In dispensary vaccinations the success rates were 84'85 and 36'55 respectively. The unknown cases in primary and re-vaccinations were 6'07 per cent and 5'06 per cent in the district board and municipal vaccinations and 7'10 per cent and 16'80 per cent in Dispensary vaccinations. These indicate that the success rate is not any the higher in vaccinations done by medical subordinates.

The cost of the vaccination establishment amounted to Rs. 72,888-4-3, the cost per vaccination being four annas and nine pies. The cost per successful vaccination was six

annas and ten pies.

Anti-plague Inoculations.—The prevalence of plague was more or less uniform in all the Districts a total of 7,232 deaths being reported. Anti-plague measures were employed in many of the infected localities the chief measure being anti-plague inoculation. As per reports 234,295 inoculations were done in Mysore State, the inoculated population being approximately 3.6 per cent. In other words out of every thousand of population 36 persons were inoculated during the year.

Statistics of inoculations in each month of the year

are given for each District in Table 12.

40

TABLE 9.

			-e[r	Nu	Number Vaccinated	p	/acci- yed yell n	ber	Primary V	Primary Vaccinations
District			Estimated Popu	Total	Male	Female	Average No. of V nators employ during the year	Average No. Vaccinator	Total	Unknown
1			63	00	4	9	9	7	00	6
Bangalore	:	:	1,108,831	34,361	90,180	14,181	98	1,322	26,098	1,840
Chitaldrug		:	667,690	15,099	609'6	5,490	10	1,510	14,759	125
Hassan	:	:	598,689	17,937	10,510	7,427	21	864	16,161	1,043
Kadur	. :	:	349,628	11,494	6,553	4,941	15	992	9,586	720
Kolar		:	856,690	55,739	29,012	26,727	28	1,990	20,665	619
Mysore	:	:	1,525,679	69,075	37,195	31,880	50	2,416	32,970	1,878
Shimoga	:	:	523,690	15,204	698'6	5,835	50	092	14,831	1,211
Tumkur		:	873,322	18,782	10,472	8,310	90	686	16,721	1,248
Total (Mysore State)*	tate)*	1 :	6,499,218	287,691	132,900	104,791	169	1,406	151,106	9,174
Bangalore City		:	179,620	12,237	7,396	4,881	4	3,056	6,851	249
Mysore City		:	110,273	18,890	8,548	5,842	,	8,472	6,886	505
Kolar Gold Field	:	1	84,755	38,250	19,364	18,886	00	4,781	4,386	:
C. & M. Station		-	196 160					No. of the last		21.11

\* Excluding C. & M. Station, Bangalore.

TABLE 9-concld.

		A STATE OF S	Primary Va	accinations			Revac	Revaccinations		s cess-	-eni lo
District			Succ	Successful					The same of	ouS lo moitani	000I J
		Under one	Over 1 & under 6 years	Total of all ages	Success	Total	Unknown	Successful	Success	Total No.	Successful
Semple		10	111	12	18	14	16	16	17	18	19
Bangalore	:	8,889	11,296	21,182	80-99	8,268	528	1,641	19-85	22,773	30.68
Chitaldrug		3,462	6,154	14,592	98-87	340	140	175	51.47	14,767	22-12
Hassan		2,878	8,557	11,830	73-20	1,776	821	810	17-45	12,140	20-28
Kadur	:	1,162	4,234	7,716	65.08	1,908	878	757	39.62	8,478	24-23
Kolar		7,447	8,7.68	17,409	84-24	85,074	1,302	17,409	19.61	84,818	40.64
Mysore		10,862	14,223	28,887	96-98	36,105	1,285	17,502	48.48	45,839	30.04
Shimoga		1,690	7,095	10,702	74.68	878	189	262	30.01	10,964	20.74
Tumkur		8,688	9,169	14,365	85.85	2,062	242	447	31.68	14,712	16.85
Total (Mysore State)*		39,428	69,465	125,988	88-37	86,585	4,380	38,503	44.47	164,486	25.31
Bangalore City		3,421	1,631	5,314	77-57	5,876	331	1,299	24.16	6,613	36.83
Mysore City		2,565	2,474	5,393	18.90	7,065	109	116	1.63	909'9	49-95
Kolar Gold Field		2,897	844	3,887	84-48	33,864	1,251	17,310	51.12	21,147	249.51
C. & M. Station	:	Figures not available.	available.								

\* Excluding C. &. M. Station, Bangalore.

TABLE 10.

		S	Succes	80.48 58.11 39.60 57.67 55.88 18.14 20.00	36.92
1932.	on	Inla	gacces	105 86 86 80 109 109 131 164	753
year 19	vaccination		onsaU nisse	188 888 189 88 88 88 88 88	196
the ye	Re-	ŭ.Μ.	Unkno	132 12 12 18 18 18 18 18 18 18 18 18 18 18 18 18	846
Ξ.			Isto'T	345 148 189 189 189 198 198 308	2,060
State		1	Success Rate	94-53 73-19 86-07 81-46 79-15 87-72 82-93	84.85
Mysor	suc		Total of All Ages	674 202 846 846 276 167 2,550 67	4,520
Medical Subordinates in Mysore State	Secondary Vaccinations	Successful	Over one and under six years	28.2 54.4 40.4 64.4 89.0 17.0 17.0 17.0 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	996
ical Subo	Primary and Seco		Under one year	363 162 192 192 87 844 170	1,576
	Prin		Unsu	177 162 162 163 163 163 163 163 163 163 163 163 163	450
ne by		UMO	Ппкп	22 116 80 80 6 6 1195 6 80 80 80 80 80 80 80 80 80 80 80 80 80	010
op su	5		Total	718 276 402 839 839 2,907 1192 192 287	0,000
inatio	anoid	eina	Mum Vac nob	1,058 424 604 528 847 8,629 595 595 595	.,,,,,
Vacc		per o	muN IsiG	80 119 22 45 45 45 45 45 45 45 45 45 45 45 45 45	
Jo				111111111	
Statistics of Vaccinations done		District		Sangalore Uhitaldrug fassan Kadur Kolar flysore himoga umkur	January Comment
THE PERSON	Transport of the Parket		Harden	Bangalor Chitaldra Hassan Kadur Kolar Mysore Shimoga Tumkur	

'LABLE 11.

Cost of the Vaccination Establishment in Mysore State in the year 1932.

District							Expe	Expenditure	d)					Pai	Paid from		
T	Va	ecins	Vaccinators		Pay of Retablish	1	Travelling		Contin-		Total		Local Firmede	Munici-	Malnad Improve-	Total	
THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSONS AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSONS AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSONS AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSONS AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO PERSON NAMED	Total	I	п	Ш	ment		Allowance		gencies				The state of the s	pality	ment		2 9
- Contract	F	I			Rs. a.	b.	Rs. a. p	p. Rs.	. 8.	p.	Rs. a.	o.	Rs. a. p.	Rs. a. p.	Rs a. p.	Rs. a.	ď
Bangalore	36	0	9	14	7,360 0 0	0 0	2,112 0	0 4,4	4,405 0	0 (	18,877 0	0	0 0 768,01	0 0 086'8		13,877	0 0
Chitaldrug	10	00	8	4	2,940	0 0	0 096	0 1	108 0	0 0	4,008 0	0	4,008 0 0	:	:	4,008	0 0
Hassan	21	4	9	11	5,946 4 4	4 4	1,568 5	4 2,6	2,646 9	00	10,156 2	11	7,784 2 5	906 1 6	6 1,465 15 0	10,156	2 11
Kadur	15	00	Cá	10	6,493	0 8		-	:		6,498 2	0	4,911 0 0	:	1,582 2 0	6,493	2 0
Kolar	88	:	:	1	4,898	0 9	1,862 5	2 1,4	1,442 0	0 (	8,202 10	CN	7,718 10 2	484 0 0		8,202 1	10 2
Mysore	53	9	00	15	10,891	9 0		2,0	2,238 7	00	12,624 8	C4	8,624 7 10	4,000 0 4	-	12,624	8 2
Shimoga	200	00	3	14	4,414	0 9	1,862 5	2 1,4	1,442 0	0 0	7,718 10	01	7,718 10 2		and the same	7,718 1	10 3
Tumkur	50	50	20	10	5,585 8	8 8	1,665 4 1	10 2,557	57 5	1 4	9,808 2	10	9,808 2 10		:	808'6	2 10
Total (Mysore State)*	169	1	:	:	45,028	9 6	10,025 4	6 14,834	834 6	00	72,888 4	00	61,470 1 5	8,370 1 10	3,048 1 0	72,888	20
Bangalore City	4	п	1	Cd.	1,180 (	0 0		1,8	1,800 0	0 0	2,980 0	0		2,980 0 0		2,980	0 0
Mysore City	4	:	63	63	1,286	8	;	2,5	2,233 7	80	3,520 0	4	:	8,520 0 4	:	8,520	0 4
Kolar Gold Field	00	:	:	00	484 (	0 0	:		:		484 0	0	:	484 0 0		484	0 0
C. & M Station.	:	:	:	:	:		:		:				:			:	

\*Excluding C. & M. Station, Bangalore.

TABLE 12.

1932.
year
the
i.
State
ysore
N
done in
inoculations
lague i
Anti-p
of
Statistics

1	1444										1			
lague	Rate per per cent popula- tion	5-25	1.74	1.96	4.10	4.18	8.35	2.87	1.85	3.60	8-79	19.40	19-37	:
Anti-plague inoculations	Number per cent popula-	58,011	26,479	11,759	14,886	36,513	55,554	24,554	7,091	2,34,295	15 784	21,890	16,417	:
196	Decemp	2,430	7,017	:	1,146	4,569	2,541	1,862	644	-	1,411	449	3,620	1
Tec	Мочеть	5,342	4,402	:	1,712	1,775	3,508	1,848	105	1	1,968	454	954	
	October	6,369	4,846	:	1,097	1,865	4,250	2,892	324	:	2,931	2,849	1,479	:
per	Septem	7,655	5,601	:	2,784	3,923	21,802	4,587	300		865	13,620	2,935	:
	gsn9n <b>y</b>	6,762	2,728	:	2,667	652	8,310	8,493	187		1,616	8,766	88	:
	July	8,043	591	/	360	289	3,333	1,268	221		1,026	278	88	:
	June	1,023	18	:	926	89	2,971	828	:	:	16	:	63	:
8	Мау	066	48		210	886	1,287	110	172	:		18	184	lable.
	livqA	1,198	496		592	1,302	2,380	87	132	:	208	90	332	not avai
	Магећ	2,606	172		632	4,817	1,481	187	184	;	795	:	1,749	Figures not available.
£,	Februar	7,876	634	-	955	8,559	900,2	348	1,960	:	2,998	189	1,537	
	January	12,832	431		1,226	1,711	1,785	1,064	2,862		1,966	242	3,438	:
Estimated	population in 1932	1,108,831	069,799	689,869	349,628	856,690	1,525,679	528,690	873,322	6,499,218	179,620	110,278	84,755	The state of the s
		:	:	:	:	:	:	:	:	(e)	-	:	;	1
Parishpole Calif	District	Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tumkur	Total (Mysore State)	Bangalore City	Mysore City	Kolar Gold Field	C. and M. Station

#### BUREAU OF LABORATORIES.

#### (a) Public Health Institute.

The work at the Institute is under three main sections, viz., Bacteriological, Chemical and Medico-legal.

In the Bacteriological section, 9,362 examinations were made during the year as against 12,305 in the previous year.

TABLE 1.

10	Examination	ons	en thi betn	Posi- tive	Nega- tive	Total 1932
1.	Blood for Wasserm	ann test	D TAY	2,800	3,573	6,373
2.	Do Widal's t		22000	143	271	414
3.	Do Kahn's t	est		2	1	3
4.	Do Malarial	Parasites		15	57	72
5.	Do Blood co	unt		THE PARTY OF	DURU IS	61
6.	Do Urea		ratosa		or aniet	1
7.	Sputum for Tubercul	osis	in and	12	52	64
8.	Do Pneumoc	occi		1	ann.w.	1
9.	Smear for Gonococ	ci		23	22	45
10.	Do Filaria			3	3	6
11.	Smear from rat for l	B. Pestis	***	3	32	35
12.	Brain of dog for rab	ies	-8.00	1	a dnois	1
13.	Motion for Ova		edd	15	64	79
14.	Do Cholera	Vibrios		3	12	15
15.	Do Dysenter	y bacilli		4	7	11
16.	Do Typhoid	do		3	43	46
17.	Urine for B. Coli			11	7	18
18.	Smear for Lepra bac	eilli	diamin.	1	16	17
19.	Pathological specin cutting.	nen for s	ection	erquint		10
20.	Preparation of Auto	vaccine				40
21.	Water samples					1,279
22.	Throat smear for Di	phtheria l	pacilli			3
23.	Motion for Tubercle	bacilli		DOM:	3	3
24.	Smear from the ear					1
25.	Water for B. Typho	sus				714
26.	Do Cyclops			/		1
	Relapsing fever				2	2
28.	Urine for Typhoid			2	44	46
	Berk-feld candle					1
		Total				9,362

A very large number of waters examined was received from the Sanitary Engineer, Rockefeller Foundation and the Health Department, Bangalore City. They were examined for the presence of enteric and cholera. No evidence of contamination was found.

Extra bacteriological work was carried out in con-

nection with the Typhoid epidemic in Bangalore City.

The Wassermann technique has been standardised and it is found that the complement titre has been maintained at a reasonable level throughout the year. Kolmer has recently pointed out that Ice-box complement fixation test is an efficient check on the routine technique carried out at 37-deg. C. The Ice-box test has been in vogue in the Institute for three years and it is found that the discrepancy between this and the routine test at 37-deg. C. varies only between 2 and 21 per cent,

specially as regards the binding of the complement.

In the Typhoid survey carried out in Bangalore City, a very few positive isolations of B. Typhosus were obtained in spite of a rigid standardised technique employed. On the other hand, other bacteria of the "Salmonella" group of organisms were often isolated. Possibly other bacterial infections are also responsible in causing enteric type fevers. In cases where blood only was examined, a great number of positives for only enteric was noticed. Great care was taken in the maintenance of the virulence of typhoid group of organisms. It was noticed that 'Somatic' agglutination was by far the most commonly found in widal reactions.

Preventive vaccines against typhoid, A and B group of organisms were prepared from strains isolated locally and supplied to the municipality at their request. As this work was attempted very recently, it is not possible to assess the protective value of the vaccines.

In the Chemical section 615 specimens were received for analysis chiefly from Government departments and a few from private persons as against 351 in the preceding

XT	0	0	7"		
V	ĸ	(d)	1	***	7

Number	Items	Number of specimens	From
1	Urine	310	Government
2	Waters	86	Do
2 3	Blood sugar estimation		Do
4	Tea	34	Do

Number	Items	100	Number of specimens	From
5	Wash		22	Government
6	Aerated waters		22	Do
7	Ghee		17	
8	Butter		10	Do
9	Coffee powder		10	Do
10	Toddy		8	Do
11	Blood Calcium		7	Do
12	Spirits		6	Do
13	Castor Oil		5	Government & Private
14	Bread		4	Do
15	Quinine tablets		4	Do
16	Soap		3	Government & Private
17	Disinfectant		3	Do
18	Pyridine		3	Do
19	Sulphate of Alumina		2	Do
20	Sweetmeats		2	Government
21	Brandy		2	Do
22	Woodnaphtha		2 2 2	Do
23	Grape fruit		2	Do
24	Rum		1	Do
25	Kolu Kalli		1	Do
26	Edible fat		1	Do
27	Muck		ze olbi	Do
28	Halva			$D_0$
29	Sewage effluent		A STATE OF THE PARTY OF THE PAR	Do
30	Bengal gram		1	Do
31	Paris green		1	Do
32	Cooked ragi	***		Do
33	Milk powder		1	Private
34	Groundnut oil		1	Government
35	Opium		1	Do
	Total		615	

Disturbances in the use of Antigen due to acidified distilled water with a low P<sub>H</sub> were very often noticed and it is found necessary to use perfectly neutral water for such reaction. This was observed to be more common during summer months.

Waters sprayed with Parisgreen were sent by the executive staff of Bangalore City Municipality for analysis. These were found to be free from arsenic, a finding which admits of no rational explanation as yet.

Chemical analyses of butter and ghee were done.

Eighty-six waters received from various Districts were examined chemically.

No.	Name o	of the District		No. of Samples	Remarks
1	Mysore	Lake Company		8	Sent by the
2	Bangalore			37	Works De
3	Kolar	-		3	Bureau of Sanitary Engineering,
4	Hassan			3	Medical De partment,
5	Shimoga		•••	14	and the Local Bodies
6	Tumkur			8	
7	Kadur			5	PURS TART
8	Chitaldrug			8	SECTION SECTION
		Total		86	

In the Medico Legal Section 196 cases with 663 articles were received for examination as compared with 198 cases with 852 articles in the preceding year.

No.	Items	Number of Cases	Number of Articles
1	Blood	 82	266
2 3	Suspected human poisoning Abortion	 84	311
4	Acid	 10	42
5	Rape	 14	33
6 7	Oil	 1	maniful 1
8	Ragi Explosives	 1 2	hall delb.
9	Hanging	 1000 I	4
	Total	 196	663

In 42 cases mammalian blood, in 8 arsenic, in 3 mercury, in 1 opium, in 1 carbon-dioxide, in 1 croton oil, in 1 oleander, in 4 spermatozoa and in 2 formaldehyde were detected.

A greater number of poisons were detected than were before. One of the rare poisons used was "Formaldehyde". There are on record very few authentic cases of poisoning with Formaldehyde. The commonly used poison appears to be mercury.

As before, Bangalore and Mysore districts supplied

much of the medico-legal material.

Under other examinations, 3,866 faecal samples were received for Helminthic infection and the results are classified below:—

1.	No.	Positive	for	Hookworm		1,707
2	No.	,,	,,	Ascaris		828
3.	No.	,,	,,	Trichiuris	stepsli	222
4.	No.	.,		Others		69

Statement showing the money value of the work done at the Public Health Institute during the year 1932:—

No.	Items	III I	No. of Samples	Rate	Amount	Total
eld Chr	I. Bacteriological Section	on.	H bne	Rs.	Rs.	to noid
1	Wassermann reaction		6,373	10	63,730	риопрои
2	Waters		1,279	10	12,790	9650
3	Preparation of Auto-vaccine		40	25	1,000	ali saw
4	Other specimens		1,670	8	5,010	2009001q
	II. CHEMICAL SECTION.			NR.	anotyali	82,530
1	Waters		86	25	2,150	5-glatted
2	Urine		310	3	930	10
3	Blood sugar estimation		39	15	585	
4	Blood calcium		7	10	70	and the same
5	Other specimens		173	25	4,325	a atnami
	III. MEDICO-LEGAL SECTIO	ON.	in and	olo/ more		8,060
1	Medico-legal cases		196	25	4,900	F-fluister
	ind controlly specific		ly lgn-v	90	<u>upliliew</u>	4,900
	The state of the s			ob.	d of bow	000 <del>01</del> 00
	Total		odino oribo	pyldy	Acti believes	95,450

Statement according to districts of the blood samples examined for Wassermann of the Institute:—

Distri	ict	DESTRUCTION	Positive	Negative	Total
Mysore	y seems	14	457	745	1,202
Bangalore		nit.	1,136	1,250	2,386
Kolar			274	273	547
Hassan			179	185	364
Shimoga			255	356	611
Fumkur			231	390	621
Kadur			150	200	350
Chitaldrug			118	174	292
Total for the	State		2,800	3,573	6,373

#### (b) Vaccine Institute.

As in previous years calves required for lymph production were supplied by an approved contractor. Twenty one calves remained at the close of the previous year, including four done calves. Four hundred and eight calves were purchased during the year under report making a total of 429 calves. Of these, 31 were buffalo-calves for production of "seed" lymph and the rest cow-calves for the production of issue lymph.

The gross cost of calves purchased during the year was Rs. 4,001-14-0 and the net cost after deducting the proceeds by sale of "done" calves Rs. 2,953-13-0 or an average of Rs. 7-3-10 per calf as against Rs. 9-5-10 during

the year previous.

Three hundred and seventy-six cow-calves and 31

buffalo-calves were vaccinated during the year.

Of the calves vaccinated 10 or 2.4 per cent had to be rejected owing to abnormal reaction. Quantity of pulp collected was 41,617 grains (including 11,322 grains used in manufacture of Glycerine lymph for "seed", experiments, etc.) equivalent to 416,170 cases. The average yield per calf vaccinated was 105 grains of pulp against 132 in the year previous. The fall in the average is rather difficult to explain and was probably due to the "calf" factor.

Two "waiting" cow-calves and one vaccinated cowcalf died. After the postmortem examination, the deaths

were declared to be due to-

Occlusion of the pyloric orifice ... 1 "Waiting Calf" Anæmia and Enteritis ... 1 "Waiting Calf" Anæmia and Debility ... 1 "Done Calf"

The usual precautions to prevent the possible spread of any communicable diseases amongst other calves in the stalls were taken.

The expenditure under feeding amounted to Rs. 723-8-0 or an average of Rs. 1-11-3 against Rs. 788-10-0 or an average of Rs. 2-2-10 per calf during the year previous. The fall was due to more satisfactory arrangements with the contractor to remove the done calves from the Institute immediately they were available. This resulted in some savings under feeding of calves.

The amount realised by the sale of done calves was Rs. 1,048-1-0 or an average of Rs. 2-9-0 per calf as against

Rs. 2-2-2 per calf during the year previous.

Lanoline vaccine continued to be issued during the year. The quantities issued as detailed in Table 2 were enough for 2,32,177 cases as against 2,00,565 cases during the year previous. Besides this, it was possible to issue only 17,400 cases of vaccine outside the State as against 46,920 cases in the previous year. There was no difficulty in meeting the full demand for vaccine at any time.

Table 2.

Particulars of issue of Lanoline lymph from the Vaccine Institute, Bangalore, during the year 1932.

District		The state of the s	s or Med Subordir	cal Officers ates		1931	1932
Bangalore						21,835	22,670
	-	Medical Officers	and Sub	ordinates	***	2,565	3,301
Mysore	1000	Vaccinators Medical Officers	- 3 C-1		4.1	26,382	23,952
	-		and Sub	ordinates	***	2,142	4,130
Kolar	441	Vaccinators Medical Officers	- 1 6 1	-Almoin	***	19,370	17,670
P	NAME OF		and Sub	ramates	***	354	836
Fumkur	***	Vaccinators Medical Officers	and Cale	udinatas.	***	21,080	20,788
m. t			and Sub	ordinates	***	461	596
Shimoga	***	Vaccinators Medical Officers	and Cal.	malina ton	***	18,509	18,702
	10000	Vaccinators	and Sub	ordinates	***	495	817
Hassan		Medical Officers	and Cal	-At- 1	***	18,910	18,420
7 3	610		and Subo	rainates	***	1,087	615
Kadur	***	Vaccinators Medical Officers	- 1 6-1	-3/	***	13,056	20,010
71.71.72	-300		and Subo	rdinates	***	887	564
Chitaldrug		Vaccinators	- 1 Cal.	-21- 77	***	17,980	15,725
T-111 000	Done	Medical Officers	and Sub	ordinates	***	808	601
Health Officer			111	****	***	9,020	11,260
Do	Myson	re City		***	***	11,975	14,375
Do	Kura	Health Unit, Ma	naya.	Cer D		2,075	2,650
Do	Noiar	Gold Field	- ***			10,430	33,430
Model Range			***		***	1,193	1,220
				Total		2,00,565	2,32,177
Outstations						46,920	17,400
				Grand Total		2,47,485	2,49,577

Out of a total of 2,49,577 cases for which the lymph was issued, the results of 1,30,756 primary cases or about 52 per cent of total issues have been reported to the Institute against 56 per cent during the year previous. It is hoped that local bodies will see that their vaccination staff do send in the returns to the Institute promptly and regularly. There is no reason why cent per cent returns should not be furnished.

The average percentage of successful primary vaccinations reported between January and June was 86 percent and that between July and December 94 percent. The average for the whole year was 90 percent against 85 percent for the year previous.

of control the year previous.

Table 3.

Analysis of percentage of successful primary cases of vaccinations by months during the several years.

Months		1932	1931	1980	1929	1928	1927	1926	1925	1924	1923
January		90	89	86	82	82	92	92	93	93	93
February		87	85	86	80	79	83	90	92	92	93
March		86	78	91	65	73	47	87	87	68	86
Aprii	***	81	79	89	74	76	48	88	62	75	÷6
May		85	76	93	81	81	71	90	88	90	90
June		88	80	98	87	77	81	87	91	85	90
	DV	86%	81.1%	890/o	78o/o	780/o	70o/o	890/o	89o/o	83o/o	89%
July		92	89	81	83	83	71	89	92	92	98
August		95	86	88	93	83	84	98	91	89	92
September		95	91	86	95	77	83	92	94	85	98
October		93	89	84	94	81	84	93	92	92	90
November		94	92	80	91	75	86	92	92	85	87
December		98	92	87	93	85	84	98	91	94	94
		94%	89.8%	84.3%	91.5%	80.6%	82.%	92.5%	92.5%	90%	92%
Yearly genera average		90%	850/0	870/o	850/o	790/o	760/o	910/o	910/0	<b>8</b> 60/o	900/0

Results classified according to months for the past 10 years (1923 to 1932) are tabulated in Table 3. Those classified according to districts and months, for the whole year are furnished in Table 5. Reporting, however, is obviously too defective and no useful comment or inference as to seasonal and geographical variations of results is possible.

TABLE 4.

Districtwar classification of results of Primary Vaccination reported to the Vaccine Institute.

Districts         Total No. of cases of cases of cases vaccinated vaccinated vaccinated vaccinated         Successful e,403           Mysore          13,968         11,931           Kolar          6,960         5,868           Tumkur          6,960         4,528           Shimoga          7,854         6,811           Kadur          3,859         2,923           Chitaldrug          6,994         4,829	sful Unsuccess- ful 1,225 31 1,332 68 742	Unknown ] 743	Percentage	Thekal W.				
8,371 13,968 6,960 8,854 7,854 3,809	ydo siing	743		of cases vaccinated	Successful	Unsuccess- ful	Unknown	Percentage
ar 6,968  ar 6,960  ar 6,960  ar 5,900  drug 3,859	othing.	705	18	8,847	7,720	477	999	₹;
ar 6,960 ga 8,854 n 5,900 drug 3,859	up.		06	11,840	10,810	108	322	98
3a 5,900 3a 7,854 3,859 Irug 5,994		850	88	6,774	6,230	307	287	96
3a 5,900  1,854  3,859  Irug 5,994	85 914	655	88	7,820	7,010	316	464	96
1,854 3,859 5,994	887	490	84	6,242	5,517	466	259	95
irug 5,994	11 967 II	929	87	6,767	5,884	969	387	91
F66.52	23 602	334	88	3,412	2,956	281	175	91
ad to	798	367	98	4,925	4,497	248	180	96
To Books	ing ing	lo	186	100		M		
	in one	et lur	1 4	LIR IPR	THE THE PERSON NAMED IN	8	Service of the least	
Model Range, Vaccinator 464 426	26 27	11	76	543	525	6	o.	86
Rural Health Unit, Mandya 1,751 1,422	259	70	84	1,955	1,757	138	99	98
Stations outside the State. Average for the whole State 86% (For the whole year, January to		December).	8	Average 8,056	Average for the whole State 8,056 7,258	le State .628	170	94

TABLE 5.

Percentage success of Primary Vaccinations classified by districts monthwar during 1932.

District	January	February	March	April	May	June .	July	August	September	October	November	December
1 3		0.4	0.5	20	87	82	90	95	97	92	95	93
Bangalore	88	84	85	76						377	1	
Mysore	92	90	90	89	89	90	92	96	93	92	94	96
Kolar	93	89	86	83	90	92	92	97	96	95	96	96
Tumkur	94	88	85	82	91	89	95	97	97	98	96	98
Shimoga	87	80	84	78	83	88	92	93	94	92	90	91
Hassan	86	86	87	86	87	86	89	90	93	92	92	89
Kadur	84	83	81	83	82	84	90	92	93	90	91	92
Chitaldrug	93	89	88	73	74	89	90	96	97	94	95	97
Total (Mysore State).	90	87	86	81	85	88	92	95	- 95	98	94	93

Reports of the vaccinal state of only 163 attacks of smallpox during the year are available. These are shown in Table 6. The vaccinal state of 1,840 cases known in Mysore State is analysed in Table 7. The protection which vaccination affords amongst all ages against death from smallpox in our State is quite obvious.

TABLE 6.

Analysis of the vaccinal state of 163 cases of smallpox reported from the State in 1932.

				Age	0-5					Age o	ver 5		
District	8	V	accin	ated	Uı	ıvacci	nated	V	accins	ted	Un	vaccii	nated
	Total Labor.	Attacks	Deaths	Fatality per cent	Attacks	Deaths	Fatality per cent	Attacks	Deaths	Fatality per cent	Attacks	Deaths	Fatality per cent
Bangalore Mysore Kolar		1 2	1		4 6 4	4 4 3		49 18 32	5 1		22 11 14	7 4 4	
Total		3	- 1	83.8	14	11	78.6	99	6	6	47	15	32

TABLE 7.

Analysis of the vaccinal state of 1,840 smallpox cases recorded in Mysore State available up to date.

		Age	0-5					Age o	ver 5		
V	accins	ited	Un	vaccir	nated	V	accins	ited	U	nvace	inated
Attacks	Deaths	Fatality	Attacks, Deaths Fatality		Fatality	Attacks	Deaths	Fatality	Attacks	Deaths	Fatality
72	12	Percent	1177	642	Percent 55	283	26	Percent 11	368	120	Percent 33

The advantage possessed by the vaccinated over the unvaccinated as regards the liability to suffer from a severe type of the disease is obvious from a perusal of the above analysis. Incidentally also it furnishes some evidence regarding the efficacy of our paste which had been used for protection of the vaccinated.

Table 8.

Complications and Sequelae reported in 1932.

ASSET SANDERS SWA	cases		Age	93	Com	plicati	ons	Pe	riod
District	Number of c	Infant under 1	1-5	Over 5	Ulcers	Abcess	Erruptions	1st week	2nd week
Kolar Gold Field	2	QI.II	2	1	wo.di	2	11.04		2

The period of occurrence of the complications in the two cases during the second week after vaccination is significant of injury to vesicles due to want of sufficient care in handling the vaccinated. The vaccinators should draw attention to this risk during their visits.

Table 9.

Complications and Sequelae from 1929 to 1932.

	The state of the s			. A	ge		Con	aplicat	ions	Per	iod
Year	District	No. of Cases	Infant under 1	1-5	Over 5	Ulcers	Abscess	Erruptions	1st week	2nd week	3rd week
1929	Bangalore Kolar Chitaldrug Tumkur Mysore	. 12	1 4  2 4	1 8 1 8 4		1 11 1 5 	1 1 		3	2 9 1 5 8	
1930	Bangalore Kolar Chitaldrug Tumkur	. 1	3	1 1 1 1 1		1 4 		 i 1		1 4 1	i
1931	Shimoga	. 4	3	1		2	1	1		1	3
1932	Kolar Gold Field.	2	1	2		.50	2	ifme		2	
	Total	. 41	17	24		25	5	11	3	34	4

From a detailed study made of the reports of all these cases, it is seen they were all due to sepsis either during vaccination or subsequent injury to vesicles from scratching, etc. Greater care during vaccination and paring the nails of children before vaccination and at the time of inspection will prevent this complication.

TABLE 10.

## Statement showing the number of kit-boxes supplied during the year 1932.

	supplied duling the jobs 1001.	
No.	Name of Parties	Number of boxes supplied
1. 2. 3. 4. 5. 6. 7.	The Health Officer, Mysore City The President, Municipal Council, Krishnarajpet Do do Kolar Town The President, District Board, Kolar District The President, Municipal Council, Kunigal The Health Officer, Mudigere, (Malaria Station) The President, Municipal Council, Gubbi	4 1 1 10 10 2 1
	Total	20

The Superintendent, Vaccine Institute, continued to supervise the vaccinations in the Model Range to test the several strains of lymph produced in the Institute. This range consists of about 111 villages within a radius of about 16 miles of Bangalore. The total number of primary vaccinations done in the Range during the year was 1,007. Ninety-six per cent of these proved successful (Table 4.)

During the year 20 vaccinators were equipped with the new type of kit-boxes on payment by their respective local bodies (Table. 10). This brings up the total number of vaccinators thus equipped to 41 in the State. It is hoped that others also will be equipped early.

Reports of only two instances from Kolar Gold Field of complications and sequelae following vaccination were made to the Institute. Death in one instance and protracted convalescence in the other were stated to have resulted. Both were traced on investigation to have followed uncleanly vaccination by the same vaccinator. The defaulting vaccinator was removed from service. Particulars are analysed in Table 8. The present "domiciliary" type of vaccination does not, under the existing field conditions, permit of satisfactory practice of requisite degree of asepsis in vaccination by the vaccinator. It is hoped that whenever conditions permit "stationary" vaccination, in which all the children to be vaccinated are made to congregate in a place, will be adopted. This is calculated to facilitate, to a greater degree, aseptic vaccination, and prevent or at least minimise, chances of complications.

The following statement shows the Income and Expenditure for 1932 as compared with the previous year.—

Items	1931		1932		
INCOME.	Rs. a.	p.	Rs.	a.	p.
Sale of vaccinated calves	723 12	0	1,048	1	0
Within the State (on account of fixed annual contribution for 1932-33) Rs. 15,540; For	14,851 13	8	18,317	2	0
actual supplies up to 31st December 1932 to the rest Rs. 2,777-2-0.	absequent Sany. 192	-01	eral yea	Sov Li,	

Items	1931	1932		
Side State of the South				
Out Stations	4,698 14 0	1,748 14 0		
Amount outstanding at the close of the year for supplies during the year. (on account of fixed annual contribution for 1932-33) Rs. 1,904; for actual supplies up to 31st December 1932 to the rest Rs. 1,810-8-0.	4,853 0 0	3,714 8 0		
Total	25,127 7 8	24,828 9 0		
EXPENDITURE.	demos bas s	o arrogett		
Salaries	4,894 0 0	4,806 0 0		
Travelling Allowance to Officers	264 12 0	138 12 0		
Establishment	6,554 4 0	5,996 1 0		
Cost of calves and experimental	3,804 10 0	4,001 14 0		
animals. Cost of feeding	788 11 0	723 8 0		
Contingencies—Usual Rs. 3,129-6-6, Unusual Rs. 6,000, (for acqui- sition of new land effected in April 1932.)	4,267 4 0	9,129 6 6		
Total	20,573 9 0	24,795 9 0		

The following local bodies have availed themselves of the option given by G. O. No. G. 4755—P. H. 32-31-3, dated 12th December 1931, of not accepting the fixed annual contribution as per G. O. No. G. 9466-87—San. 84-29-7, dated 12th March 1931 but agreeing to pay as and when lymph is issued.—

- 1. President, District Board, Kadur.
- 2. , , , Hassan.
- 3. ,, Municipal Council, Hassan.
- 4. ,, City Municipality, Mysore.

A statement of progress in demand and collection for the several years subsequent to issue of Government Order No. L. 5137-210—Sany. 1925-2, dated 18th January 1926 is detailed in Table 11. It is possible that in some cases dues might have been credited to the treasury but no intimation of the same has been received in the Institute. Some items might have been shown as outstandings owing to credit not having been given in the books for want of sufficient information to identify the amounts. Even the monthly departmental credit statements sent from the comptroller are often returned unverified on this account.

Outstandings to the extent of Rs. 25,085-5-8 as per books of this office remain yet unadjusted by the several local bodies. Of this, a sum of Rs. 3,714-8-0 is due for supplies during the current year and Rs. 21,370-13-8 for

previous years.

PABLE 11.

Progress of Collections against Demands for Supplies of Lymph in the years 1925-32.

to all	Total	Bs. a. p. 31,466 3 2 39,1466 3 2 41,159 0 111 41,092 15 5 28,976 4 0 29,786 1 8 26,877 12 4 25,085 5 8
Balance	Towards	Rs. a. p. 20,043 5 7 30,047 3 2 34,097 12 3 33,610 9 5 12,1738 15 8 21,289 5 4 21,528 12 8 21,370 18 8
1000	Towards	Rs. a. p. 11,422 18 7 9,115 15 5 7,061 4 8 7,282 6 0 7,287 4 4 4 4 4,853 0 0 8,714 8 0
	Total	Rs. a. p. 12,491 0 2 9,521 11 9 15,722 9 8 24,271 10 6 85,024 3 4 28,509 8 6 27,812 1 0 25,072 14 8
Collections	Towards	Rs. a. p. 8,918 e 10 8,102 11 9 10,657 3 4 16,923 3 0 15,670 3 7 15,822 9 10 19,550 11 8
	Towards	Rs. a. p. 3,572 9 4 1,419 0 0 5,065 6 4 7,348 7 6 19,353 15 9 7,686 14 8 8,251 5 4 5,006 11 8
ds	Total	Rs. a. p. 48,957 3 4 48,684 14 4 65,881 10 7 64,000 7 4 68,189 18 4 50,158 4 4
Outstanding demands	Current year's due	Rs. a. p. 20,341 4 5 17,218 11 2 17,718 8 0 22,907 7 11 2 24,403 11 8 23,780 8 0
Outs	Arrears due	Rs. a. p. 23,615 14 11 81,466 8 2 99,163 2 7 41,159 0 11 41,092 15 5 28,786 4 0 29,786 1 8 26,877 12 4
Vest		
		1925 1926 1927 1928 1930 1981 1982

The outstanding for the previous years has resulted from accumulation of unadjusted outstandings since 1921 when the taluk boards were in existence. Their abolition and subsequent non-acceptance of their full liabilities by the district boards accounts for the heavy outstandings. The matter is under detailed investigation.

No difficulty is anticipated in the adjustment of out-

standings for current supplies.

The cost of lymph issued during the year works out to be Rs. 0-1-8 per case against Rs. 0-1-6 per case during the year previous. The slight increase is due to the inclusion of Rs. 6,000, an unusual item, incurred during the year, for making payment for certain land acquired for the Institute's premises in April 1932. Excluding the unusual item, the cost per case issued works out Re. 0-1-3 per case against Re. 0-1-6 during the year previous indicating cheaper cost of production of the issued lymph.

Ten candidates for qualifying in vaccination were trained and nine were granted certificates during the year. Besides 17 pupil compounders and two midwives were

also given the training.

The usual course of demonstration in vaccination for the final M. B. S. and L. M. P. of the Mysore Univer-

sity was also held during the year.

During the year, 99 lanoline samples were plate cultured 113 times to ensure their freedom from pathogenic organisms at the time of issue. Besides this, 104 glycerine samples were examined 364 times to study the several problems incidental to issue of such a lymph from the Institute.

Lanoline lymph enough for 14,647 cases had to be rejected for defective potency resulting from storage

incidental to its issue on rotation as per demand.

Anti-cholera vaccine was stored and distributed this year also by this Institute. Out of 5,590 doses stocked, 2,080 doses were issued out and i20 doses (all time expired) were written off the accounts as per Government Order No. 8138—9. P. H. 72-31-3, dated 13th April 1932, leaving a balance of 2,790 doses on 1st January 1933.

Out of 183 doses of bilivaccine tablets on hand no issues were made during the year under report as there

was no demand for the same.

The value of the cholera vaccines distributed during the year amounted to Rs. 155-6-0. Out of this, a sum of Rs. 108-2-0 was adjusted and Rs. 47-4-0 remained

unadjusted. Besides this, an amount of Rs. 2,095-10-0 remained unadjusted up to 31st December 1932 for supplies made during 1931, making a total of Rs. 2,142-14-0

as shown in table 12.

Plague serum bulbs and agar tubes were also made available in this Institute for distribution, 120 of the former and 58 of the latter being stocked. Fifty-four plague serum bulbs and 12 agar tubes were issued during the year under report. The rest of the agar tubes having become contaminated were discarded. This leaves a balance of 65 plague serum bulbs on hand on 1st January 1933.

Observations and experiments detailed in previous years' reports incidental to evolution of our local standards of potency and purity were continued. Results noted under different heads are recorded in tables [13 (a)—13 (h)].

Steady increase in the initial potency of our lymph may be observed to have been maintained during the

year.

Works to meet some of the most urgent wants of the Institute were under execution by the Department of Public Works at the close of the year. They were completed and handed over to the Department of Health only on 2nd February 1933. As by that time the cold weather, the most favourable season for production of vaccine lymph had passed, no material progress was possible towards the solution of the question of replacement of lanoline lymph by glycerine lymph. It is hoped that some definite advance in this direction will be made during 1933.

Table 14.—Summarises the more important facts regarding the work of the Institute during the year as

compared with that of the year previous.

The stock-books of this Institute have been as per standing orders brought up-to-date, duly verified and found correct during the year.

Table 12.

Statement showing the amount due from the several Local Bodies for Anti-cholera vaccine supplied up to 31st December 1932.

Districts		Name of Parties	Amount due up to 31st December 1931		Amount due up to 31st December 1932		Total amount due up to 31st December 1932				
Bangalore		President, District Board, Bangalore.	1,146	12	0	***			*1,146	12	0
Do		Municipal Commissioner, Bangalore City Municipality.	567	3	0	31	4	0	598	7	0
Mysore	444	President, District Board, Mysore.	132	11	0	16	0	0	148	11	0
Chitaldrug	***	President, District Board, Chitaldrug.	39	7	0				39	7	0
Hassan		President, District Board, Hassan.	156	12	0				156	12	0
Shimoga		President, District Board, Shimoga.	52	13	0				52	13	0
		Total	2,095	10	0	47	4	0	2,142	14	0

<sup>\*</sup>Adjusted subsequent to 31st December 1932. Vide Comptroller's letter No. B 11-494 D-27-4-33, to the Director of Health in Mysore.

Table 13 (a).

r Rates resulting from vaccin

The Vesicular Rates resulting from vaccination of the several strains in different dilutions.

Quarter	Years	1 in 50	1 in 100	1 in 500	1 in 1,000	No. of obser- vations
January to March	1929	3.6	3.1	1.3	.11	*
, , , , , , , , , , , , , , , , , , , ,	1930	4.7	3.9	2.4	1.4	40
	1931	4.8	3.7	2.4	2.5	24
	1932	4.9	4.7	4.1	3 2	29
April to June	1929	3.1	2.2	1.2	0.8	*
	1930	4.4	3.8	3.0	2.5	30
	1931	4.9	3.9	2.9	1.7	23
	1932	4.8	4.4	3.6	3 2	22
July to September	1929	4 1	3.5	1.6	1.2	
0.4 88	1930	4.3	3.1	2.7	2.6	23
	1931	4'9	4.5	3.8	2.8	24
	1932	4.9	4.6	4.3	3.3	26
October to December	1929	4.9	4.5	2.7	1.8	1/2
	1930	4.9	4.6	3'4	2.6	24
	1931	49	4.7	3.8	3.3	18
	1932	4.7	43	3.6	2.6	23
Average	1929	3.9	3.3	1'7	1'2	190
mountaines one saw evitels	1930	4'5	3.8	2.8	2.5	117
	1931	4.8	4.5	3 2	2.5	89
	1932	4.7	4.3	3.9	31	100

<sup>\*</sup>Data for 1929 not available quarter by quarter.

TABLE 13 (b). Average yield in grains per inch of insertion.

Quarter		year	Yield	No. of observations
		1929	0.9	*
January to March		1930	1.3	91
		1931	1.2	77
	0.1	1932	0.9	99
A 21 to Toma		1929	0.8	*
April to June		1930	1.1	85
	n.	1931	1.0	72
		1932	1.0	83
July to September		1929	1.0	
July to September	10.11	1930	1'1	80
	0.00	1931	1.0	82
		1932	0.9	95
October to December		1929	1'4	*
October to December		1930	1.5	67
	80	1931	1.0	63
		1932	11	91
Average		1929	1.0	378
	1	1930	1.5	323
	19-19	1931	1'2	304
		1932	1.0	368

<sup>\*</sup> Data for 1929 not available quarter by quarter.

TABLE 13 (c). The Potency Unit of the several Pastes.

Quarter	7 6	1929	1930	1931	1932
January to March		3.0	3.6	3.8	4.0
April to June		2.3	3.3	3.6	3.6
July to September		3.1	3.4	3.6	3.6
October to December		3.4	3.7	3.8	4.0
Average for the year		3.0	3.2	3.7	.3'8

N.B.-A note on unit employed :--

Over an area of about \$\frac{1}{4}"\$ by \$\frac{1}{4}"\$ 4 linear incisions each about \$\frac{1}{4}"\$ long are made on the prepared skin of a calf. For each sample, 4 such insertions are made. If the resulting vesiculation was one continuous patch over the whole area, it was graded 4.

If at least two such lines coalesced and discrete vesicles were

present in the other two, it was graded 3.

If at least discrete vesicles resulted along the four line, it was graded 2.

If at least one discrete vesicle resulted along one line, it was

graded 1.

The arithmetical averages of the values of the four individual insertions was the value given to the reaction in the experiment. The "Calf Factor" was eliminated as far as possible by taking the values of reaction in several calves and calculating the average. The personal factor was minimised by the same observer making the experiments and reading the result of the whole series.

Table 13 (d).

Average period of preservation in days after production of seed-lymph prior to vaccination of calves.

				And the second	
Quarter		1929	1930	1931	1932
January to March		16	18	7	7
April to June		9	13	6	8
July to September		6	17	5	7
October to December	980	10	13	6	10
Average for the year		10	15	6	8

TABLE 13 (e).

Average period of preservation in days of the lymph produced prior to issue.

Quarter	1929	1930	1931	1932
January to March	 12	15	20	17
April to June	 16	24	23	16
July to September	 17	18	23	12
October to December	 17	19	21	15
Average for the year	 16	19	21	15

TABLE 13 (f).

Average period in days of stabling the calves in the Institute prior to vaccination.

Quarter	a Toyal	1929	1930	1931	1932
January to March		9	8	11	14
April to June		8	10	11	13
July to September		8	9	9	10
October to December		6	9	10	14
Average for the year		8	9	10	12

TABLE 13 (g).

Average reported field result of the several pastes issued out from the Institute.

Quarter	1929	1930	1931	1932
- 4	Per cent	Per cent	Per cent	
January to March	 75.5	88	84	87.6
April to June	 80.3	92	78	84.6
July to September	 90.5	85	89	94
October to December	 92'1	84	91	93.3
Average for the year	 85	87	85	90

TABLE 13 (h).

Record of observations noted relating to the several possible factors influencing quality of Vaccine Lymph.

Field result reported of the several pastes issued out	from the Institute	Per cent 85.0 87.0 85.0 90.0
Average period of preservation in days of	prior to issue	16 19 21 15
	1 in 1,000	2.5 2.5 2.5 5.6
Average vesicular rate	1 in 500	3.6 3.6 3.6
Average ve	1 in 100	0 0 4 4 0 0 0 0
	1 in 50	0444 0000-
Average potency unit of the	pastes	88.42
Average yield per inch of in-	sertion	1.2
Average period of preservation in days after production of	prior to vaccina-	10 15 6 8
Average period of preservin days of in days a stabling the production calves in the	Institute prior to vaccination	8 5 6 6 6 6
Year		
To the last	-	1929 1930 1931 1982

TABLE 14.

Some of the more important facts regarding the work of the Institute as compared with the previous year.

No	Particulars	1931	1932
1	Calves remaining	No. 33	No. 21
2	Calves purchased	., 309	,. 377
3	Buffalo calves	,, 20	,, 31
4	Number of calves that died	,, 2	,, 3
5	Number of 'Done' calves	,, 339	,, 409
6	Number of calves remaining on 1st January 33.	" 21	,, 17
7	Gross cost	Rs.3,804 10 0	4,001 14 0
8	Net cost	,, 3,080 14 0	2,953 13 0
9	Average cost of calves	,, 9 5 10	7 3 10
10	Calves vaccinated	No. 315	No. 376
11	Buffalo calves vaccinated	,, 19	,, 31
12	Calves rejected .	,, 11	,, 10
			(or 2.4%
13		(or 3 3%) 42,673 grs.	41,617 grs.
14		15,178 grs.	11,322 grs.
15	Average yield per calf	132 grs.	105 grs.
16		Rs. 788 10 0	723 8 (
17	Cost of feeding per calf	,, .2 2 10	1 11 8
18	Sale of calves	,, 723 12 0	1,048 1 0
19	Average sale price per calf	,, 2 2 2	2 9 0
20	Lymph issued	2,47,485 grs.	2,49,577 grs.
21	Lymph issued outside Mysore State.		17,400 ,,
22	Issue in May and June (Hot Weather).	3 1 12 1	
23	Results of primary vaccination	56 per cent of	52 per cent
0.4	reported.	cases	cases.
24	Average percentage success reported.	86%	90%
25	Complication, and Sequelae reported.	No. 4	No. 2
26	Number of new kit boxes issued to vaccinators.	,, 21	,, 21
27	Cost of lymph issued per case	17 pies.	15 pies
28	Candidates trained in Vaccina-	No. 9	No. 10
	tion.	110. 3	110. 10
29	Number granted certificates	,, 6	,, 9
30	Pupil Compounders trained	,, 7	,, 17
31	Midwives trained in vaccination.	Nil	,, 2
32	Sanitary Inspectors	,, 1	Nil

#### BUREAU OF HEALTH EDUCATION.

Since the reorganisation of the Bureau of Health Education under Government Order No. G. 4647-9-P. H. 16-31-6 dated 7—9th December 1931, the secretariat work of the Indian Red Cross Society, Mysore State Branch, was taken over by the bureau with the Director of Health as the Honorary Secretary.

In pursuance of Government Order No. G. 8617-19— P.H. 69-31-6 dated 30th April 1932, the Bureau of Health Education was placed in charge of Mr. E. Anantha Rao, B.Sc., M.B.B.S., Health Probationer under the general control and direction of the Director of Health. He was

designated Superintendent of the Bureau.

During the year under report, 162 cinema shows were

given to a total audience of about 1,24,485 persons.

During his intinerary in the districts, the Publicity Officer visited primary boys' and girls' schools and a few middle schools and gave health talks to the teachers and

pupils.

The officers of the bureau actively co-operated in the State-wide Health and Baby Week celebrations. For this purpose, in addition to the films already with the department, special films relating to mothercraft were hired from Madras and Delhi. The department organised a health exhibition in connection with the second State Conference of the Primary and Middle School teachers in Bangalore.

During the year, 22 articles on the following subjects were published in the local Kannada and English news-

papers:-

Borehole Sanitary Latrines 6. Plague
 Rural Sanitation 7. Soil Pollution

2. Rural Sanitation 7. Soil Pollution 8. Typhoid Fever

3. Smallpox 4. Mothercraft

9. General Health Subjects.

5. Tuberculosis

A leaflet entitled "Smallpox in Mysore" was published at the Government Press, Bangalore, in five

languages for free distribution in the State.

The bureau printed leaflets and pictorial posters on Smallpox, Plague, Soil Pollution and Borehole Latrines in large numbers in Kannada, Urdu and English. They are being distributed free all over the State through the agency of the revenue and educational authorities, district boards, village panchayets and municipalities. A consignment of

leaflets was sent to the District Educational Officers for distribution in the primary and middle schools. Two thousand Kannada leaflets on Smallpox, Plague, Soil pollution and Borehole latrine were distributed among the visitors to the Health Stall at the Educational Health Exhibition Buildings, Bangalore.

A set of posters and leaflets was supplied to the Rural Reconstruction Society, Agricultural School,

Hebbal, for health propaganda in the rural area.

The motor van which is now over three years old has become greatly depreciated, needing frequent repairs. The question of purchasing a new vehicle was considered but owing to financial stringency, it was deferred.

## BUREAU OF SANITARY ENGINEERING.

The Bureau of Sanitary Engineering of the Department of Public Health, Mysore State, had as its major activities in 1932, problems relating to public water supplies, public sewage, drainage and sanitary works, town improvements, construction of borehole latrines and

composting of night soil and town refuse.

The activities of the Bureau of Sanitary Engineering were increased during the year 1932 by Government Order No. G. 7496-519—P. H. 69-31-5, dated 19th March 1932 which authorised that the entire control of water supplies in the State be vested in the Bureau of Sanitary Engineering except the Bangalore Water Supply which will remain under the Chief Engineer until all major works in connection with the improvement to the Bangalore Water Supply are completed.

The maintenance and operation of the Vani Vilas Water Works at Mysore, the Kolar Gold Field Water Works at Bethamangala and the Shimoga Water Works at Shimoga were taken over by the Bureau of Sanitary Engineering with the addition of the following staff trans-

ferred from the Water Supply Division :-

Assistant Engineer	estudintally son	1
Sub-Engineer	and bedging t	1
Overseers	ne, S., J. Pollu	2
Sub-Overseers Head Driver	n Kamada, I	5
Drivers	ed frest all over	1
Assistant Drivers	and edupation	5
Apprentice Driver	inuoi-bise klos	1

Chief Operator			1
Electric Operator			1
Assistant Operators			2
Tank Inspector		***	1
Meter Inspectors	Rosenson durida		2
Water Inspectors			4
Sub-Assistant Surgeon			1
Sanitary Inspector			1
Assistant Draftsman			1
Clerks		***	6
Accounts Clerks			3
Compounder			1
Midwife			1
Surgery cooly			1
Peons	***	***	4
Maistry		le cont	1
Sweepers	MOTION Inphi	***	4

Government also directed that the work of sinking boreholes for drinking water supplies should be done by the well boring staff attached to the Department of Industries and Commerce in strict accordance with the instructions issued by the Bureau of Sanitary Eugineering with whom all initiative in the matter will lie.

Government further directed that all grants for Public Improvements under the following heads will be operated

upon under the orders of the Sanitary Engineer.

1. Improvement of Water Supply in towns.

2. Improvements of towns and minor municipalities.

3. Rural reconstruction.

4. Drinking water wells in villages.

Item No. 3 above relating to the grant for Rural Reconstruction was subsequently ordered to remain with the Revenue Commissioner as hitherto while item No. 4 Drinking water wells in villages was ordered to be distributed among the several Districts by Government.

The following table shows the personnel of the Bureau

of Sanitary Engineering at the close of the year.

Executive Engineer			1*
Assistant Engineers			3**
Sub-Engineers	COMMUNICATION		2
Overseers			2
Sub-Overseers	W BULLINED	polen.y	15
Head Driver	MIN	angioch	1
Drivers	war. Six		5
Assistant Drivers	or maistered B		3
Apprentice Driver	The state of the s		1
Chief Operator			1
Electric Operator	Rinkir rank	10	1

Assistant Operators			2
Tank Inspector			1
Meter Inspectors			2
Water Inspectors		•••	4
Sub-Assistant Surgeon			1
Sanitary Inspector	310		1
Draftsmen	BC 100		3
Assistant Draftsmen			1
Head Clerk	11,001	THE CONTRACT	1
Clerks			9
Accountant			1
Accounts Clerks		appunce	4
Stenographer			1
Chauffeur			1
Tracer			1
Chemist			1
Compounder			1
Midwife			1
Surgery Cooly	•••		1
Peons		•••	16
Maistry		OF BELLEVIOLE	1
Sweepers	See SITT	modbm	4
Mechanic		Barrett at	1

\* Mr. B. R. Garudachar, Executive Sanitary Engineer, returned from a year's deputation to the United States and resumed his duties in May 1932.

The Executive Engineer of the Water-Supply Division acting as Executive Sanitary Engineer was reverted

to the Department of Public Works.

\*\* Mr. K. S. Hutcha Rao, Assistant Sanitary Engineer, left for the United States in September 1932 for a period of one year on a Fellowship for the study and investigation of modern methods employed in Water-Supplies.

At the close of the year 1931, there were 25 piped water supplies in the State serving a population of 6,78,893 or 10.4 per cent of the total population of the State. During the year 1932, four new water works were installed serving an additional population of 13,098. Two existing water-supplies were improved and their capacities enlarged. Nine existing water-supplies were equipped with chlorinators resulting in an additional 86,335 people being benefited by safer drinking water.

New designs and estimates were prepared for 20 water-supply systems. Sixteen of these are from bore-wells, two from infiltration wells, one from an impounded reservoir and one an extension from an existing water-supply. The original estimates and designs of nine

proposed water-supplies were investigated and the designs modified and the estimates reduced. Designs and estimates were prepared for improvements and extensions to

11 existing water-supply systems.

The collection of samples from drinking water-supplies was continued by the Bureau of Sanitary Engineering. One thousand, four hundred and ninety-seven samples of water were collected from piped Municipal water-supplies, Rural water-supplies and dug wells, step wells and tanks.

Plans and estimates were prepared for improvements to four drainage systems, ten designs and estimates for sewage systems and 19 designs and estimates for improve-

ments to existing sanitary works.

Town Survey Work was undertaken at 13 Municipalities for the investigation and design of town improvements.

A section of borehole latrine construction was organized with an Assistant Engineer in charge. One hundred and-fifty borehole latrines were excavated and squatting slabs and enclosures completed during the year.

The Bureau of Sanitary Engineering continued to assist in the composting of night soil and refuse at Mysore

City.

#### WATER-SUPPLY.

# Design and Execution.

Rajankunte.—Plans and estimates were prepared for using the yield from a borewell sunk by the Industries Department. The project was designed so as to provide drinking water to the large number of people congregating on shandy days.

Arasikere.—The work in connection with the distribution system and extensions to the distribution system

was completed.

Pavagada.—A hand pump was installed on a borewell sunk by the Department of Industries and Commerce.

# Improvements and Extensions.

Kolar.—The final execution work in connection with the improvements to Kolar Water Works were completed and the water works officially opened by the Dewan Amin-ul-Mulk Sir Mirza M. Ismail, Kt., C.I E., O.B.E., on the 24th October 1932.

Tiptur.—The distribution work has been completed and the water-supply plant from borewells is being operated.

### New Design.

Chitaldrug.—As the pumping scheme from Kathral tank involved necessary sedimentation tanks and filters at a cost of about Rs. 2 lakhs, the Municipality was advised to instal five boreholes within the town which could be worked by air lift equipment and pumped to a masonry reservoir on the top of the Fort Tower.

Yediyur.—Plans and estimates for utilising the water to be obtained from a borewell under construction were

forwarded to the Amildar.

Talaguppe.—Plans and estimates for utilising the water to be obtained from a borewell under construction were forwarded to the Amildar.

Rs. 4,250 were prepared for water-supply to shandy grounds. The system includes deep well pump, elevated tank and distribution with eight or nine taps.

Kengeri.—Plans and estimates were prepared for a simple water-supply scheme from an infiltration well in

a nearby nallah.

Dodballapur.—The modified estimate for Rs. 32,862 for water-supply to Dodballapur town has had to be further modified to bring it within the available sum of Rs. 16,000 which the Municipality has set aside for this purpose. Government has been addressed to supply the necessary cast iron pipes from Bhadravati Iron Works as a loan to the Municipality and to waive the 18 per cent Establishment, Tools and Plant Charges in order that the scheme may be within the means of the Municipality and execution may be carried out immediately.

Madhugiri.—An abstract estimate amounting to Rs. 15,000 for a pumping scheme of water-supply from a borewell in the local hospital compound has been prepared

and sent to the President for approval.

Whitefield.—An original estimate for Rs. 19,824 for water-supply from a borewell was modified and reduced to Rs. 10,655 for the first stage and forwarded to the Municipal President for approval.

Central Distillery, Bangalore.—An estimate amounting to Rs. 9,300 was prepared for supplying pure water

to the Central Distillery from a borewell.

Chickthirupathi.—An estimate for Rs. 4,000 for supplying drinking water to Chickthirupathi by putting a borewell with a masonry tank and distribution was prepared and sent for approval.

Tyakal.—An estimate amounting to Rs. 2,500 for construction of a borewell and putting a hand retary pump

was prepared and sent for approval.

Challakere.—An estimate for Rs. 1,240 for constructing a borewell and putting a hand pump was proposed for the supply of water to the Town Hall at Challakere.

Hebbal.—An estimate amounting to Rs. 487 for water-supply to the Hebbal Agricultural School from the borewell of the Serum Institute was prepared and forwarded for approval.

A further estimate for Rs. 165 for supplying drinking water to the nearby village of Hebbal was also prepared.

Malur.—An estimate amounting to Rs. 10,440 was prepared for water-supply to Malur Town for a pumping scheme from an infiltration well near the town tank.

Tuberculosis Sanatorium, Mysore.—An estimate costing Rs. 3,622 for supplying filtered water to the Princess Krishnajammanni's Tuberculosis Sanatorium, Mysore was prepared.

Arasikere.—The following estimates for improvements and extensions to water-supplies of Arasikere have

been prepared.

- An estimate costing Rs. 4,000 for water-supply to Chickthirupathi near Arasikere by means of a borewell, pump, masonry tank and limited distribution.
- An estimate for Rs. 2,800 for providing additional submains and taps to Arasikere town distribution.
- Proposals for improving the present pumping arrangements have been worked out and are under execution.

Nidaghatta.—An estimate for water-supply costing Rs. 3,730 for a borewell with power pump, a small elevated tank and a few taps was prepared.

Anekal.—An estimate for water-supply costing Rs. 3,150 including borewell pump and distribution was

prepared.

Indavala Village.—An estimate costing Rs. 3,780 for water-supply to the village from an infiltration well and pump power by a windmill was proposed.

Chickballapur.—A proposal to supply water to Chickballapur town from Ramasagara Tank was investigated and found to cost Rs. 3 lakhs. It was recommended that

the scheme is too costly for the size of the town.

Subrahmanya Ghati.—An estimate amounting to Rs. 15,000 was prepared for supplying water to the Subrahmanya Ghati jatra grounds.

The following designs were modified and the estimates reduced.

Hosadurga.—A modified estimate amounting to Rs. 3,622 for complete water-supply distribution from an elevated reservoir was prepared and forwarded to the

Municipality.

Seringapatam.—An original estimate amounting to Rs. 31,180 and providing for water supply by means of an hydraulic ram had been modified and reduced to Rs. 22,140. The new scheme involved pumping arrangements from the river with filtration through pressure filters, elevated tank and distribution.

Hole-Narsipur.—The original estimate costing Rs. 62,460 had been modified and reduced to Rs. 46,000. This scheme provides for pumping from the river and filtration through pressure filters, elevated tank and

distribution.

Sollebyle.—A proposal for the supply of water to Sollebyle through borewells from an hydraulic ram scheme was considered undesirable in view of the perennial supply of water in the stream.

Maddur.—A modified estimate amounting to Rs. 54,700 had been forwarded for sanction to Government.

Channapatna.—The original estimate of Rs. 1,19,000 for a pumping scheme from the Kanva river for water supply to the town was modified to first stage including pumping plant, rising main, elevated tank and thirty public taps costing Rs. 56,400. Government have been addressed to furnish the necessary cast iron pipes from Bhadravati Iron Works as a loan and to waive the 18% Establishment, Tools and Plant Charges.

Konanur.—The original estimate costing Rs. 44,500 for water supply to Konanur was revised and reduced to Rs. 28,400. The scheme involves pumping from the river with filtration through pressure filters, elevated tank and

distribution.

French Rocks.—An original estimate costing Rs. 48,700 for water supply to French Rocks town from

an hydraulic ram scheme was modified and reduced to Rs. 28,320. The new scheme provides for electric pumping from the irrigation canal, sedimentation tanks, pressure filters, elevation tank and distribution.

Designs and estimates were prepared for improvements to the following water supplies.

Hassan.—Two estimates amounting to Rs. 3,690 for water supply to the northern and Krishnaraja extension from two experimental borewells were prepared and sent to the President, Municipal Council.

Mysore.—An estimate costing Rs. 22,550 for installing a new 3-million gallon pumping unit at Belagola was

sent for approval.

Belagola.—An estimate amounting to Rs. 2,150 for replacing the present <sup>3</sup>/<sub>4</sub>" line by 1½' galvanised iron pipe and giving four additional taps to Belagola village was forwarded to the Amildar.

Robertsonpet.—An estimate amounting to Rs. 11,000 for improvements of water supply to Robertsonpet was

prepared.

Bhadravati.—The present water supply to Bhadravati old town is through a 4" cast iron line from a Booster plant connected to the Bhadravati Iron Works water filtration system. Estimates for Rs. 8,730 for extending the distribution system to the rest of the old town area was prepared.

Nanjangud.—An estimate costing Rs. 11,600 for improving the water supply to Nanjangud town by providing for settling tanks, coagulent feed apparatus and low

lift pump was prepared.

New Yedatore Town.—An estimate costing Rs. 12,000 for improving the present water supply system by providing a pumping set with pressure filters and settling tanks was prepared.

Tumkur.—An estimate amounting to Rs. 3,800 for installing an electric pumping unit on Mydala tank bund was prepared to increase the capacity of the present

water supply system.

Chintamani.—The present water supply to Chintamani through slow sand filters proved very unsatisfactory. An estimate amounting to Rs. 29,500 has been prepared for improving the water supply by installing an electric pumping unit and pressure filters.

In order to improve the present bad quality of the filtered water, one of the slow sand filters has been overhauled under the supervision of a Sub-Overseer deputed from the Bureau of Sanitary Engineering.

#### Kolar:-

- An estimate costing Rs. 2,688 for extending the present water supply distribution to the new extension, Bar Lines Katarpet, and Electric colony was prepared.
- 2. An estimate for emergency work done on the Mederhally tank bund which threatened to breach during the last rains was prepared.

Tiptur.—The following improvements to Tiptur water supply system were proposed.

- 1. An etsimate costing Rs. 12,036 for water supply to the new extension.
- 2. An estimate costing Rs. 5,290 for extending the present distribution system.

# Chlorination.

Because of the poor bacteriological results obtained from some of the piped water supplies of the State, Chlorinators were installed at the following water supply systems for sterilisation.

> Shimoga• Kolar• Chickmagalur. Hassan.

Nanjangud.

Hunsur. Tiptur.

Chintamani. Mudigere.

# Collection of Water Samples.

One thousand, four-hundred and ninety-seven samples of water were collected from public water supplies for bacteriological examination at the Public Health Institute, Bangalore.

Bangalore.—Nine hundred and sixty-three samples of water were collected from the Filter plant and distribution

reservoirs in Bangalore City. The results of the examination were as follows:—

	r of	180			1	3. Co	li In	dex	per 1	00 c.c.		
Source	Number c	0	2	4	6	8	10	20	100	1,000	10,000	1,00,000
Applied water	286	229	9	11	2	6	2	10	17			
Clear well	288	190	44	18	10	6 7	9	4	6			
Malleswaram Reservoir.	29	24	2	2					1			
Palace Reservoir	25	11	5	1	2	1	1	2	2		***	111
High Level Reser- voir.	27	20	2	3	1				1		744	
Low Level Reser- voir.	27	13	5	4	***	1	1	3		***	***	***
Basavangudi Re- servoir.	24	4	5	8	3.	2	1	1				
Chamaripet Re- servoir.	22	3	1	4	2	1	3	7	1			
Taps	95	59	6	7	4	3	5	4	7			***
Raw Water	17	1	***				6	6	3	1	***	
Experimental fil- ters.	123	21	19	21	11	9	20	16	6		***	W WES
Total	963	575	98	79	35.	80	48	58	44	1		

Thippagondanhalli.—One hundred and eighty-five samples of water were sent in from Thippagondanhalli Reservoir Colony water supply. The results of the bacteriological examination were as follows:—

Common	er of					В.	Coli	per	100 c.	c.		
Source	Number o	0	2	4	G	8	10	20	100	1,000	10,000	1,00,000
River water	 41	1					1	2	8	15	13	1
Applied water	 7							2 8	8 2 15	3	***	
Filter test cock	 36	2				***		8	15	11		***
Reservoir	 41		***				2	8	13	17	1	***
Тар	 26				***	***	1	6	11	7	1	
Suction well	 -34	***			***		***	3	12	10	8	1
Total	 185	3		1			4	29	61	63	23	2

# Municipal Water Supplies.

Two hundred and forty-one samples of water were collected from municipal water supplies. The results of the bacteriological examination were as follows:—

000,022 00001		er of			В. (	Coli I	nde	c per	100	с. с.			Remarks
Source		Number samples	0	2	4	6	8	10	20	100	1,000	10,000	Remarks
SIVASAMUDRAM— Rain water Filter water Channel water		6 8 2	1	2				ï	2 2	1	1 2	2	Coagulation Pressure filters.
Mysore— Raw water Applied water Filtered water Tap water Reservoir		3 4 5 4 1	 1 3 1		 2 	 1 			1 1 	1 4  1	1  		Coagulation Gravity filters Chlorinated
Nanjangud— Raw water Filtered water Tap water River water		4 5 3 1	 1 		:::				1 1 	 2 2 	3 1 1 1	:::	Pressure filters.
HUNSUR— Raw water Filtered water Tap water River water	:::	4 5 4 1		::		:::			 1 2 	1 3 2 	1 1 	2	Pressure filters.
YEDATORE— Raw water Filtered water Tap water		2 3 4			3 : :				 1 2	2	2 1 		Pressure filters.
KOLAR— Filtered water Reservoir Tap water Raw water Applied water		4 1 3 3 1						1	  1	3 1	 1  2		Slow sand filters. Pressure filters.
CHINTAMANI— Raw water Filtered water Tap water		2 2 2	ï						1 1	 i	1		Slow sand filters.
KOLAR GOLD FIELD— Raw water Applied water Filtered water Tap water Reservoir		2 2 7 2 8	 2 2 3	 5 1		  			1 1 	ï	1		Coagulation Gravity filters Chlorinated
TUMKUR— Reservoir Tap water Raw water Applied Filter		1 7 6 4 3	2  1	ï	3	ï		1 2 13 1	 1	1  3 	 1 		police to Institute
MUDGERE— Reservoir Tap water		1 4 1 1	1							8			Raw water pumped.

	er of			В.	Coli	Inde	x pe	r 100	c. c.			
Source	Number samples	0	2	4	6	8	10	20	100	1,000	10,000	Remarks
CHIKMAGALUR— Raw water Filtered water Reservoir Tap water	 4 5 2 1			ï	:::			"i …	 4 1 1	3	1	Slow sand filters.
BHADRAVATI— Tap water Raw water Filter	 5 4 6	 1			 "ï	1	1	2 1 2	1 1 1	2		Pressure filters.
SHIMOGA— River water Filter ,, Reservoir Tap water Raw ,,	 3 7 4 5 3		"i "i	"i			ï	3 2 2 	1 1 2 2 1	1	1	Pressure filters,
Kadur — Raw water Filter water Tap water	 3 3 3	1 2			 ï		2	ï 1	1			Slow sand filters.
SOLLEBYLE— Reservoir Tap water	 1 1	:::						ï	1			Spring water.
Koppa— Raw water Tap water	 1 1			:::	ï		201.11	1				Tank water settled and raw.
HARIHAR— River water Filter ,, Tap ,,	 3 2 3								1 2 3	1	1	Pressure filters.
DAVANGERE— River water Applied water Filtered water Tap water Raw water	 1 3 6 5 3	 1 		 2 	( : : : : : : : : : : : : : : : : : : :		 1	1 2 	2 2 3		1  1	Coagulated Gravity filters.
CHITALDRUG— Raw water Tap "	 1 3	2		::					1 1			Tank water settled and raw.
HIRIYUR— Tap water	 7		1	1	2		2		1			Settled and raw water
HULIKERE Raw water First filter Final filter Filtered water Reservoir Tap water	 2 1 1 1 1 1							 1	1 1 1 1 1 1 1 1 1 1	1   		togalladbo()

Source	No. of samples			В.	Co	oli	Ind	lex	per	100 с.	c.
		0	2	4	6	8	10	20	100	1000	10,000
Kyamantanhalli.— River water	1	: 1									1
Total .	. 241	26	13	14	9	2	14	41	76	32	12

# Municipal Borewells.

Sixty-seven samples of water were collected from Municipal Borewells and the results of the bacteriological examinations were as follows:—

Source	No. of samples			В.	Co	li I	Ind	ex	per 1	100 с.	c.
		0	2	4	6	8	10	20	100	1000	10,000
Channapatna Mysore Arkalgud Hassan Tarikere Davangere Chitaldrug Hosadurga Sira Madhugiri Arsikere Tiptur Kunigal Dodballapur	3 1 2 11 7 3 11 3 1 2 7 7 4 5	3 1  2 1  4 3  2 2 1 1 1	1	3	· · · · · · · · · · · · · · · · · · ·	1	2 1 1 1 1 1				
Total	 67	20	5	5	3	3	6	8	17		

Forty-one samples of water were collected from step wells, dug wells and tanks used as water supplies. The results of the bacteriological examination were as follows:—

podel appearing	No. of	100			В	. C	oli	In	dex	per 10	0 c.c.	
Source	samples	0	2	4	6	8	10	20	100	1000	10,000	100000
Channaraya-										MARINA		in (
patna.—												11
Step well	1					22.3				1	100000	100
Nandhi.—	135						***		***			
Step well	2	2										
Mulbagal.—	This Tile					1					frankl.	and P
Well water	1								20.8	1		1
Srinivasapur												
Well water	1								- and			1
Hoskote.—	-											-
Well water	1					1	130			TO SE		1
Seringapatam.—	-								***			1
Well water	1											1
Maddur.—	W YAAT	1			***		***			***	***	1
Well water	1		-				1			Roy		1
Channapatna.—	1										•••	1
Well water	1		1	1	10	1			18to		TO THE REAL PROPERTY.	1
Malur.—	1										1111111	1
	-0				1	100		10	h 11	1	was for	4
Well water	2				•••		• • • •		I Bo	1		1
Step well	1						***				***	1*
Belur.—					1		1					INS III
Dug well	1					•••	1			***	***	
Bangalore.	0	100			Pin			١.	BEN	1	0	palled
Dug well	6						1	1	***	1	3	***
Malur.—		1									-	
Dug well	1								• • • •	***	1	
Chikballapur.—	MIN-OUT IN	10		1	1	b	1					
Dug well	1					B. C. C.				***	1	
Devanhalli.—						-	1	-		1		
Dug well	1										1	
Srinivasapur.—		1	-		1	18						1
Dug well	1									1	***	
Bowringpet.—			1				-		1	1883	The state of the s	A STORE
Dug well	1										1	
Hoskote.—	Harry St.			100	1	1		1	1	1		
Dug well	2										1	1
Kunigal.—					19					1 Prof		T. But
Dug well	2										2	1
Saklespur.—		1			1	1	1			di o	To not	Thurs !
Dug well	1	1									1	
Nelamangala.—	But the			1				1	-			
Dug well	1	1000	1	100	100	1	100	1	4	0 100		1

Canada	No. of		i		В.	C	oli	In	dex 1	per 10	00 c.c.	allower March
Source	samples	0	2	4	6	8	10	20	100	1000	10,000	100000
M. Donaini	21 - 601 05			19								
Madhugiri.— Dug well	 5								2		2	1
Kyamantan-								1			PER	2222
halli.— Dug well .	2											2
Chitaldrug.—		-									1	
Dug well .	 1							1				
Tank (tap).	 2							1	1			
Nandi.—				1	1					1		
Tank .	 1		1									
Total .	 41	2	1				2	3	3	4	13	13

## DRAINAGE, SEWAGE AND SANITARY WORKS.

Nandi Village.—The drains constructed by a local contractor were inspected and found to be defective. Orders were issued for re-advertising the scheme.

Kalasa.—An estimate for the drainage of Kalasa town was modified to facilitate the work being undertaken

in stages.

Chikballapur.—The main drain estimate for Chikballapur town was scrutinised and a modified estimate

prepared and sent to the municipal council.

Tiptur.—Estimate for a pipe drain for diverting sullage away from the borewells and to the other side of the town was sent to the president, municipal council.

The following proposals were made for the sewage collection and disposal systems.

Bangalore.—Estimates and plans were prepared for the disposal of the effluent from the septic tank at the Bangalore Palace. The Palace authorities are undertaking the improvement.

Bangalore—Plans and estimates were prepared for diverting the waste-matter of the Vaccine Institute and

providing a flushing latrine and septic tank.

Central Jail Extension.—The sub-main sewer No. 2 of the comprehensive scheme for Bangalore City providing for the drainage of Central Jail Extension by way of

Balepet, Chikpet and Sultanpet and emptying into the flood water main drain was estimated for Rs. 34,140.

Basavangudi.—Sub-main sewer No. 9 of the comprehensive scheme for Bangalore city providing for drainage from Basavangudi Mohamadan Block by way of Mavalli and Lal-bagh is being prepared.

Malleswaram.—The design for a settling tank for the sewage from the Maharaja Mills and Malleswaram was

sent to the Municipal Engineer.

Central Distillery, Bangalore.—An alternate estimate costing Rs. 19,724 was prepared for purifying and softening the waters of the Chickakere tank used by the Govern-

ment Central Distillery.

Soap Factory, Bangalore.—Plans and estimates were prepared for the removal of waste-matter and sewage from the Soap Factory, Central Industrial Workshop, Century Club and the Electric Offices with an underground pipe sewer to be connected to the existing underground drain.

Bodyguard Lines, Mysore.—An estimate for Rs. 4,148 for drainage arrangements and sewage disposal plant was sanctioned and the execution was undertaken by the bureau.

Railway Colony, Mysore.—The drainage scheme for the Railway Colony and the station yard was completed and forwarded to the Railway authorities.

# The following estimates were prepared for Sanitary Works.

Bangalore.—Plans and estimates were prepared for providing flushing latrine facilities at the Race Track which borders the Low Level Reservoir of Bangalore City.

Bangalore.—The construction of the sanitary fittings to the New Insurance Building was completed and handed

over.

Intermediate College, Bangalore.—An estimate for providing sanitary fittings to the latrine amounting to Rs. 1,000 was sent to the Assistant Engineer, Head-

quarters Range.

Central College, Bangalore.—An estimate for Rs. 2,575 for providing a flushing latrine of six seats and six urinals was sent to the Assistant Engineer, Headquarters Range.

New Medical School, Bangalore.—An estimate for the fixing of sanitary and lavatory fittings was prepared and

work executed.

Carlton House, Bangalore.—An estimate for Rs. 4,800 was prepared for providing sanitary fittings to seven bath rooms and necessary drainage and sewage disposal arrangements. The work was executed during the quarter.

Rs. 15,126 for providing sanitary fittings for six bath rooms with necessary drainage and sewage disposal arrangements was prepared. The work was executed during the year.

Bangalore.—Repairs to sanitary fittings in Victoria

Hospital.

Repairs to sanitary fittings in Minto Ophthalmic

Hospital.

An estimate costing Rs. 806 was prepared for providing sanitary fittings with flushing arrangements for the latrines at the City Market.

# Mysore:—

- (a) Improvements to the Lavatories of the Medical College.
- (b) Improvements to the automatic flushing latrines of the Jumma Mosque.
- (c) Repairs to the sanitary fittings in Vani Vilas Hospital.

Railway Audit Office, Mysore.—An estimate for construction of flushing latrine and scwage disposal plant for Rs. 1,687 was sent to the Agent, Mysore Railways, Mysore.

Maharaja's College Hostel, Mysore.—An estimate for providing a lavatory and repairs to the flushing cistern was sent to the Executive Engineer, Special Division,

Mysore.

Lalitha Mahal, Mysore.—An estimate for Rs. 250 for repairs and sanitary fittings was prepared and the work executed.

Ayurvedic College, Mysore.—An estimate was prepared for shifting lavatories and the work executed.

Ophthalmic Hospital, Mysore.—An estimate for Rs. 2,175 for sanitary installations for the Ophthalmic

Hospital was sent to the Executive Engineer, Special

Division, Mysore.

Exhibition Buildings, Mysore.—Estimates for constructing an additional flushing latrine and installing one borehole latrine for demonstration purposes were prepared and the work executed.

### Town Improvements.

Survey works were executed at the following towns and villages for investigation and design of town improvements:—

Tumkur ... Survey work of Tumkur was completed.

Dodballapur ... Survey work of Dodballapur was completed.

Lay out plans for proposed extensions at Maddur and Chennarayapatna were proposed:—

Chennarayapatna... A lay out for shop sites at Chennarayapatna was prepared.

Survey works of the following towns are in progress:-

1. Kolar 2. Honnali

3. Saklespur Extension

Arkalgud
 Chikballapur

6. Kunigal

Hassan
 Chikmagalur

9. Shimoga

## Construction of Borehole Latrines.

Borehole latrine construction was carried out by a separate section of the Bureau of Sanitary Engineering under the charge of an Assistant Engineer. The first units were confined to jatra grounds where there was no facility for night soil collection or disposal. Additional installations were made at Hessarghatta Grass Farm and the Hebbal Agricultural School. Municipalities were then interested in the installation of borehole latrines and numerous requests were received for instructions in the construction and the loan of the necessary apparatus. Four requests for information were received from parts outside Mysore State. It was found necessary to order 32 additional pairs of augers in order to meet the demand. Bangalore City, Mysore City and the Bhadravati Iron Works each purchased their own equipment from the Bureau of Sanitary Engineering for borehole latrine

installation. The following table shows the number of borehole installations made during the year 1932:—

onn epillatenii		of holes ored	Dept	th of res	depositifity	f latrines and in use	and squat- under con-	
Name of place	Successful	Unsuccessful	Minimum	Maximum	Nature of soil	Number of l	Enclosures and squing slabs under struction.	Remarks
BANGALORE DISTRICT		iph.	Feet	Feet	MESKIN, 19			
Bangalore City Hebbal Krishnarajapuram Varthur Ginjoor Ramagondanhalli Vemalur Gottigere Sarakki Yediyoor Anekal Hessarghatta Adigodi Koramangala Benuganahalli Chikballapur Taluk Dodballapur do Madhugiri do Mysore City Hassan Arsikere	34 6 2 1 2 1 1 2 1 2 1 2 1 2 2	8 2 14	16 16 20 14 17 13 13 16  14 16 16 17 18 17 13 14 14 14 14 14 14	19 19 20 14 17 13 13 16 16 15 18 18 18 18 17 17 17 16 16 17 17 16 16 16 16 16 16 16 16 16 16 16 16 16	Gravel Do Soft soil Hard Gravel Soft do Hard do	11 5 2 1 1 1 1 1 6 2 2 1 1 10 6 16 14 13 3 3 3	17* 1 1 1 2 3 4 3 6 6	*6 were used temporarily.
Total .	150	39			,	100	44	

# Compost.

Numerous trips of inspection to the compost field were made during the year and experiments proposed by the Committee consisting of the Director of Agriculture, Dr. Fowler and the Sanitary Engineer were carried out at the compost field under the supervision of the Sanitary Engineer. It was definitely determined that fly breeding could be controlled by proper emulsion of the ingredients before application. The strength of application, the amount to be used, the interval of application and the period of turning were definitely established for compost experiments under Mysore Conditions.

The following method of composting proved to give

the best results with the least amount of labour.

Raw Rubbish. The street rubbish collected from the City was first dumped outside the area on which the pile was to be formed. The rubbish was then carefully worked

into position excluding all bricks, stones, chatties, tins, glass, fine dust, etc. The size of the pile before treatment was six feet wide at the base, four feet wide on top and with a depth of two feet. The length of the pile depends upon the amount of material available.

Emulsion.—An emulsion of night soil and water carefully prepared so that all extraneous matter, such as leaves, etc., were removed and prepared so that all solid particles of night soil were broken down to form a

homogeneous emulsion.

- (a) Method of Treatment.—The rubbish pile was first trenched by pulling the centre of the pile toward the edges. The emulsion was then applied to this trench covered over again by pulling in the sides.
- (b) The amount of emulsion.—Two gallons per running foot of pile.
- (c) The strength of emulsion.—One part of night soil to four parts of liquid.
- (d) Period of application.—Daily until the entire pile is moist without being wet and then applications every third day.
  - (e) Period of turning.—Once each week.

Mysore City continued the process of composting the night soil and rubbish throughout the year. Some difficulty was encountered during the heavy rains of the monsoon season and it was definitely established that fly breeding was the result of improper emulsifying of the

night soil and liquid before application.

It was necessary to determine more or less accurately the amount of fly breeding taking place in the compost heaps. A concrete fly trap platform based on the design of the fly traps successfully used at Coonoor was constructed for fly breeding investigation. The platform is 40 feet long and 20 feet wide separated into two sections by a fly larvae baffle constructed down the centre. The entire platform is surrounded by a special concrete fly trap trench. A compost heap was formed on one half of the platform and received treatment similar to the 500 feet compost heaps of the Municipality. Compost heaps of the same raw material but treated with emulsions properly prepared were formed on the other side of the fly platform. A Sanitary Inspector was detailed to make daily counts

of fly larvae on either side of the platform, or in the fly trap trench. The results of these investigations proved conclusively that fly breeding can be expected where the night soil is applied to the compost heaps in the crude condition in which they are brought to the Sewage Farm. The demonstration heaps on the other side of the platform were entirely free from fly larvae and investigations proved that where special pains are taken to prepare a proper emulsion of night soil and liquid that fly breeding is negligible or is entirely prevented by the uniformally high temperatures maintained throughout the pile.

During the first half of the year, 1,811 tons were manufactured, of which 1,070 tons were sold to the Agricultural Department for a sum of Rs. 3,902. The production of the latter half of the year was screened and piled into storage heaps to meet this year's demand of the

Department of Agriculture.

Numerous persons interested in the process of composting visited the Mysore City Sewage Farm to witness the process. Among those who visited the Farm were Lieut. Colonel, J. R. D. Webb, O.B.E., I.M.S., Director of Public Health, Madras, who later started composting in Madras Presidency and Mr. A. M. Brodie of Ceylon who was interested in starting the process at Jaffna, Ceylon and the officials of the Bangalore City Municipality who were interested in starting the process at Bangalore.

# BUREAU OF RURAL HEALTH.

# Rural Health Unit, Mandya Taluk, Mysore District.

During the year the Assistant Health Officer of the Unit was transferred to Mudgere Malaria Station and in his place a Probationary Sub-Assistant Surgeon was

appointed for training.

In the early part of the year under review, water was turned on in the Maddur branch of the Irwin Canal and Irrigation was commenced in a few villages. Immediately after, a large increase in the number of mosquitoes was observed in the cultivated area, and coincident with this, cases of malaria were reported from this hitherto comparatively malaria-free locality. The disease attained epidemic proportions by April. Six villages were very severely

affected. The spleen rate in them rose markedly from insignificant figures to 80 per cent.

No.	Name of	village	Spleen rate before water was let into canal	Spleen rate after water was let into canal	
		maliy -		Per cent	Per cent
1	Komerhalli			4	81.0
2	Gigundipatna			11'4	68'1
3	H. Malligere	•••		3.3	82.0
4	Horganhalli			0.0	55'3
5	Satnur			12.0	32.8
6	Chikmandya			20'0	32.5

In four villages the disease was particularly severe accounting for about 100 deaths, for a total population of 3,500. With a view to determine the changed local conditions, a health survey of the village in the Irwin Canal Zone was undertaken under orders of Government. Subsequently, Government sanctioned a special grant of Rs. 15,000 for free distribution of quinine and other relief measures in the affected area. The villages in the locality were dry with no canals and irrigation. With the advent of the Irwin Canal, the local conditions have entirely changed and there is danger of many of the villages, which are, as a rule, situated in the valleys and near tanks, getting water logged. To avert this, the engineering and revenue officials are trying to carry out minor alterations in the alignment of the canal, etc.

The Dewan and the Second Member of Council

paid a visit to the locality during the year.

Plague which prevailed during the tail end of 1931 continued during the early part of the current year. Twenty-one villages were reported infected. A total of 181 attacks with 112 deaths occurred. All the places infected were visited by the Unit staff for anti-plague

measures. Six thousand and twenty-nine anti-plague inoculations were done as per statement given below:—

Monthwar statement of anti-plague inoculations in the Rural Health Unit, Mandya.

		Plague l	Infection		SAU ABIOTE
Month	Inocu	nlated	Unino	Number of Inocula- tions	
	Attacks	Deaths	Attacks	Deaths	HELD Rive
January	 5	1	87	52	2,001
February	 1		5	3	492
March	 		31	23	278
April	 NEE				18
May	 				
June	 		10	8	15
July	 		3	3	5
August	 1	1	3	2	661
September	 		1	1 1	
October	 1		1	1	54
November	 1		12	8	1,664
December	 2		17	9	859
Total	 11	2	170	110	6,029

Eleven attacks with two deaths among the inoculated were reported, as detailed below:—

Details of attacks and deaths among the inoculated.

Period between inocalation and attacks in days		Number	Number	Period between attacks and deaths in days						reries
		attacks	deaths	1	1 2	3	4	5	6	Recoveries
7- 14		2	1				1	0.19	10	1
15-21		2								2
22- 30		***								
31- 60		4	1					1		3
61- 90		1								1
91-120		1								1
21-150										
51-180										
Unknown		1								1
Total		11	2			T	1	1		9

Four cases of diarrhea and vomiting were reported from the Voddar Cooly Colony in February. The cases were not clinically cholera. Steps were taken to protect the immediate neighbourhood. Six hundred and five anti-cholera inoculations were given.

Five attacks with one death from smallpox were reported in the months of June and July among the Voddar Coolies. The spread of the disease was controlled by promptly resorting to intensive vacci-

nation.

During November a village in the Unit area reported smallpox. The source of infection was traced to a boy of the neighbouring village who returned with smallpox from Ganjam (Seringapatam) a few days prior to the outbreak and formed the focus of infection. The attempts of the vaccination staff were thwarted for a considerable time by the villagers concealing the unprotected. Before systematic vaccination campaign was commenced 14 attacks with one death had already occurred. This was a lesson to the villagers and they finally agreed for vaccination. One hundred and seven primary vaccinations were done in the village out of a total population of 700. The staff did 3,491 primary, 215 secondary and 442 revaccinations in the Unit area.

Measles prevailed severely in the area. The actual number of attacks and deaths could not be recorded due to inefficient reporting. An attempt was made to ascertain the incidence of the disease in Mandya town by a house to house survey, and this revealed 97 attacks and eight deaths, all due to the complication of broncho-

pneumonia.

Forty-eight cases of typhoid with ten deaths were registered. The disease broke out in an epidemic form in Nidaghatta, Maddur taluk, where 15 attacks and four deaths occurred. The infection was mainly among children of school-going age, and as far as could be elicited, eatables from the local coffee hotel were probably responsible for the spread of the disease. The village water supply was chlorinated as a precautionary measure. Thirty-three T.A.B. injections were given in Nidaghatta and six in Mandya town.

The midwives of the Unit paid 477 visits to 22 villages in the Unit area. They made 3,301 pre-labour and 2,042 post-labour visits and 63 visits for miscellaneous

cases. They also conducted 66 labour cases.

Statement according to months of the work of the midwives for 1932.

		Number	Number	Na	ature of vis	sit	
Month		of villages visited	of visits paid to villages	Pre- labour	Post- labour	Miscel- laneous	Cases
ult pacau	ele	for Lune	suple	n rill	om en	9 9	froms.
January		26	45	272	156	3	1 3 6 8 4 5 5 9 9 6 8 8
February		22	46	252	131	12	8
March		23	46	308	185	8	6
April	***	21	40	308	136	8	8
May	***	19	89	285	178	12	4
June	***	22	41	285	146	4	5
July	***	21	86	261	178	4	5
August	***	22	87	283	214	4	9
September	***	24	44	309	231	2 4	9
October		19	89	273	178	4	6
November	***	21	34	228	144	2	8
December		16	30	245	165	4	2
Total			477	3,309	2,042	63	66

The Unit conducted spleen survey in 34 villages in and outside the area. Three hundred and ten were found positive out of 2,099 children examined for enlarged spleens.

Table showing the results of spleen survey.

Age	Age group		Total Negative	Negative	Size of spleen					Percentage
			Total Hegative		Palpable 1		2 3	4	Percel	
0—1 1—4 5—9 10—14 15 and above			49 497 1,083 426 44	48 459 911 340 31	1 12 78 30 5	17 68 38 3	7 23 14 3	 2 7 9		
	Total		2,099	1,789	121	123	47	18	1	10.0

After a lapse of three months (January to March) the lady doctor from the Zenana Mission Hospital, commenced the Maddur Maternity Clinic work. She held 114 clinics and examined 1,050 cases. The lady doctor extended her work to Somenhalli Village from May. These clinics are being held in three places now. They continue to be popular.

Statement of clinics held.

,	Month		Clinics				
	MOHUII		Number held	Number attended			
January to M	arch						
April			8	67			
May			13	189			
June			16	164			
July			12	142			
August		1.0	15	123			
September			12	106			
October			12	88			
November			14	94			
December			12	67			
	Total		114	1,050			

The Unit laboratory examined 246 blood-smears, 12 spleen-smears from dead rats, 12 samples of fæces, 37 of

urine and eight of sputum.

The Public Health Institute examined for the Unit 33 samples of blood for Wassermann and two for Widal, one sample of sputum for bacillus pestis, one throat-smear for diphtheria and four samples of motion for dysentery.

### PART II

# VITAL STATISTICS

(Bureau of Vital Statistics.)

PART II

# VITAL STATISTICS

(Bureau of Vital Statistics.)

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#### VITAL STATISTICS.

### (i) Population.

At the recent Census of the Mysore State taken on February 26,1931, the enumerated population was 6,423,189 excluding Civil and Military Station, Bangalore. Assuming this to be the true population on that date, the estimated population on July 1, 1931 was 6,442,584.

The following are the estimated populations in the

Districts and Cities as on July 1, 1932 :-

District or City	,			imated Population uly 1, 1932.)
Bangalore	downling	ion, it is sig		1,103,831
Chitaldrug	14 J.W.	spittlagion		667,690
Hassan	3.0000	ludod lo pill		598,689
Kadur	apple and	r unimplante		349,628
Kolar		Sed Tinknu		856,690
Mysore				1,525,679
Shimoga		The state of the s		523,690
Tumkur	Janta Trid	helitanirae.		873,322
	Total (M	ysore State)	bus I	6,499,218
Bangalore City	eidina di	Town Mun		179,620
Mysore City	pivelis	lo Poulditate		110,273
Kolar Gold Fie	eld	eoglogg at dil		84,755
Civil and Milit	ary Station	n, Bangalore	10	136,162

The rates computed in the following report on Vital Statistics are based on the estimated populations and are therefore comparable with similar rates in other countries.

### (ii) Births.

During the year under report, 115,627 births were reported as compared with 119,762 in 1931. Of these, 58,778 were male and 56,849 female, the ratio of male to female births being 103 to 100. The birth-rate during the year was slightly less than in 1931, the rates being 17.79 and 18.64 respectively. Table 1 gives the recorded births in the districts and cities in each month.

Analysing the figures by months, it is seen that the maximum number (11,054) of births was registered in

October and the minimum (8,405) in January. In the three cities together, 12,556 births were reported, the greatest and smallest monthly totals being 1,174 in April

and 928 in January.

The birth-rates in the districts varied from 11'36 in Hassan District to 20'85 in Kolar District. Assuming, as a result of the survey made in 1929, that 44 is the normal birth-rate in the districts, it may be stated that the recorded rates are less than 50 per cent of the true rates.

In cities, however, the rates are more reliable than in the districts. Kolar Gold Field reported a birth-rate of 44'47 whilst Mysore City recorded a low rate of 25'11. Bangalore City rate is between these two, being 33'50.

In this connection, it is significant to notice that the following 11 Municipalities have reported birth-rates

exceeding 40 per mille of population:-

Chintamani, Goribidnur, Heggaddevankote, Krishnarajpete, Koppa, Madhugiri, Nagar, Nagamangala, Sarjapur, Sira and Tirthahalli.

It follows therefore that only 11 out of 106 (or about 10 per cent of) Municipalities have registered fairly reliable birth-rates, the estimated birth-rates for urban areas

being about 40 and over.

Tables 27 and 28 give a complete alphabetical list of Taluks, and City and Town Municipalities in Mysore State, respectively with statistics of births and deaths from different diseases. It is proposed to publish such statements in future for reference purposes and for the use of research workers in the field of public health.

### (iii) Deaths.

### (a) Death Rate.

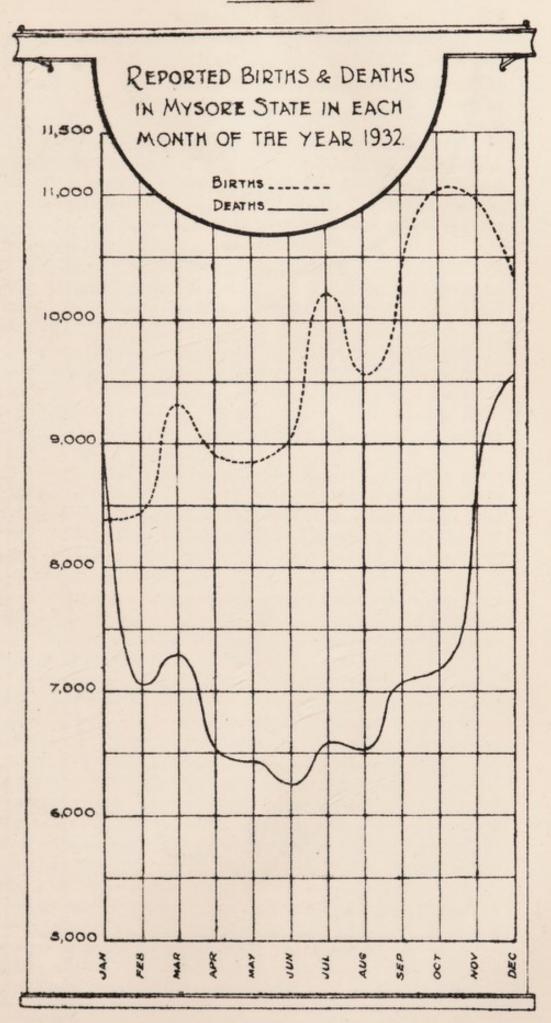
During the year, 88,175 deaths were reported as against 94,265 in 1931, the death, rates in the two years being 13.57 and 14.67 respectively. Assuming the reported figures to be equally significant in the two years considered, it may be stated that there was a fall in the death-rate in the year under review.

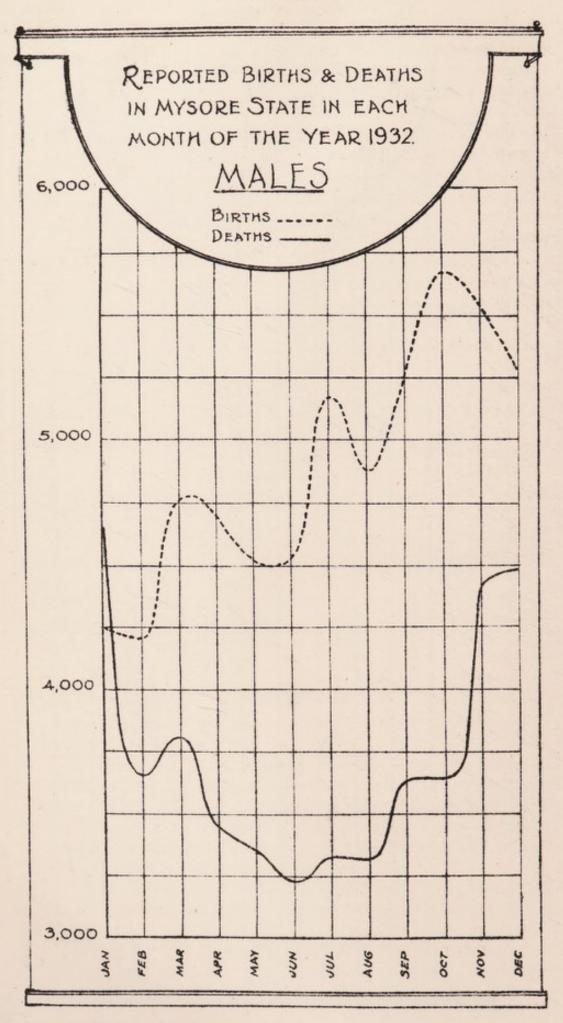
Of the 88,175 deaths registered, 45,389 were male and 42,786 female, the ratio of male to female deaths being

106 to 100.

Table 2 gives the recorded deaths in the districts and cities in each month. The maximum number of deaths

# Graph 1.





(9,533) was reported in December and the minimum (6,213) in June. In the three cities together, 9,923 deaths were reported, the greatest and smallest monthly totals being

1,001 in December and 725 in June.

The death-rates in the districts varied from 10.80 in Hassan District to 15.87 in Shimoga District. The rates were much higher in City areas. Kolar Gold Field reported the highest rate of 30.62, whilst Mysore City recorded the lowest rate of 23.80. Bangalore City rate was between these two, being 26.19.

In the case of deaths more municipalities have reported fairly reliable figures, 26 out of 106 (or about 25 per cent) having registered death-rates of 20 and over. They

are:

Alur, Belur, Belakavadi, Bowringpet, Chikmagalur, Chintamani, Davangere, Heggaddevankote, Honnali, Hole-Narsipur, Krishnarajpete, Koppa, Madhugiri, Melkote, Mirle, Molakalmuru, Mudgere, Mugur, Narasimharajpur, Nagar, Nelamangala, Periyapatna, Saragur, Sringere, Tarikere and Vadigenahalli.

During the year, an excess (27,452) of births over deaths was reported. In the cities together, it was 2,633. Among districts only, Kadur reported an excess of deaths over births in the annual totals. Among cities, Mysore City reported excess of deaths over births in January,

August and November.

The highest proportionate excess of births over deaths occurred in Tumkur District and the lowest in Hassan District; among cities, the highest occurred in Kolar Gold

Field and the lowest in Mysore City.

Births and deaths reported in each month of the year 1932 are shown in Graph 1. The graph indicates that the incidence of deaths begins to fall continuously from January until June when it is at its lowest and then begins to ascend until December when it is at its maximum. On the other hand, the incidence of births rises from the month of January and has the first peak in March, the next higher peak in July and the next highest peak in October. Thus, in the case of births, three distinct peaks are noticeable. Graph 2 for Males and Graph 3 far Females are almost identical with Graph 1.

The addition to the population by the occurrence of more births than deaths was 4.22 per mille in the State as a whole and 7.22 per mille in the three cities put to-

gether.

Table 3 gives the distribution of deaths among Hindus,

Mussalmans and other classes.

The Age and Sex distribution of reported deaths is shown in Table 4. Assuming that the age distribution of the population remains practically constant from year to year in the inter-censal period, the following differential rates of mortality occurred in the different age groups. In the age period 0-1, in every 1,000 of the population of that age, 62.94 deaths occurred. In the age groups 1-5, 5-10, 10-15, 15-20, 20-30, 30-40, 40-50, 50-60 and 60 and over, the corresponding rates were 14.85, 6.43, 5.12, 8.30, 8.44, 9.91, 12.42, 19.99 and 63.05 respectively. The rates of mortality in the two periods, viz., under one year of age and 60 and over, are almost equal among both males and females. The female death rates are lower than the rates for males except in the age period 5-40, in which period the rates for females are higher than those of males. The difference in the rates is small in the period 5-15 and pronounced in the child bearing period 15-40. It is significant that the rate of mortality among male infants is much higher than among female infants under one year.

Table 5 gives a comparative statement of births and

deaths from the different diseases listed.

Table 6 gives the same comparative statement for rural and urban areas in the districts and in the State as a whole. It is significant that the urban birth-rate in 1932 was 27.94, whilst the rural birth-rate was only 16.09. The urban and rural death-rates were 19.56 and 12.56 respectively.

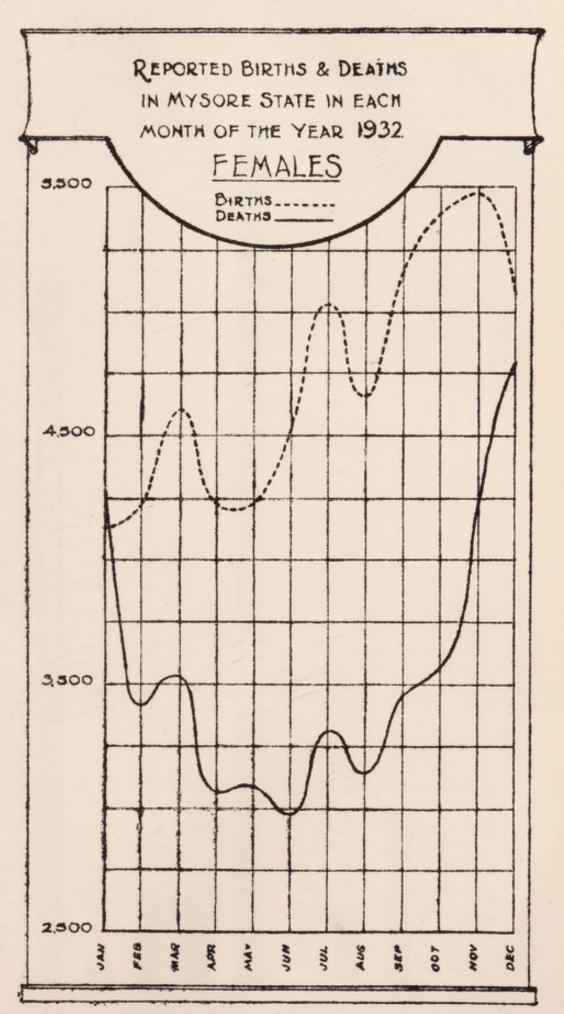
### (b) Infant Mortality.

In the year under report, 11,026 deaths of infants under one year of age were reported, yielding an infant mortality rate of 95.36 per thousand births. Particulars of live births and of those born dead are not available and the rate given here is therefore very crude and can be used only for tentative comparisons.

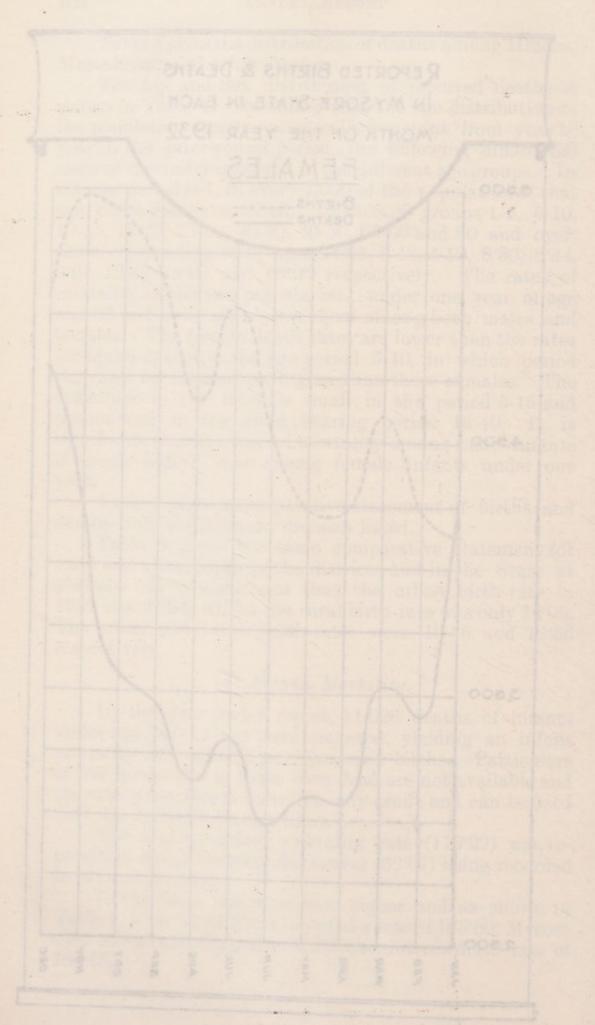
The highest infant mortality rate (116.22) was reported in Kolar District, the lowest (62.67) being recorded

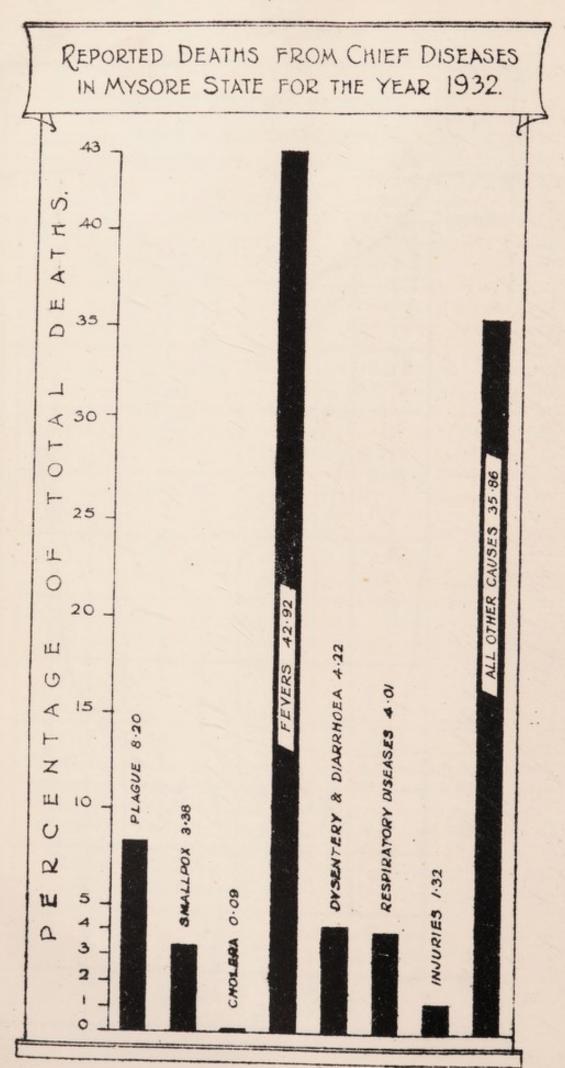
in Mysore District.

In the cities, the rates were higher and as shown in Table 7, Kolar Gold Field reported a rate of 183.60, Mysore City 118.82 and Bangalore City the intermediate rate of 180.13.



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### (c) Statistical History of Chief Diseases.

Deaths reported in 1932 may be classified under the following 13 heads:—

Cause of Death.			Repo	rted number
THE PERSON NAMED IN COLUMN			0	f Deaths
Plague	"			7,232
Small-pox	Total Park	1.0.0	gratie.	2,980
Cholera		1/1		83
Malaria		Unknown		
Typhoid		Unknown		
Other Fevers			HO!	37,842
Dysentery and Diar		O TRIL S	EDVID IN	3,718
Respiratory Diseases		es the ge	indicate	3,538
Consumption		Unknown		
Leprosy		Do		
Child-birth	BOLDEO	Do		
Injuries	mid mo		STORE T	1,165
(i) Suicide			175	1,100
(ii) Drowning			Unknown	
(iii) Wounds and	aggidant		321	
(iv) Wild Anima			169	
(v) Snake-bite	15		Unknown	
(vi) Rabies			Do	91 617
All other causes		''		31,617
	m 1-1/35	a.	1	00.15%
	Total (M	vsore Stat	e)	88.175

Graph 4 depicts the relative mortality from these diseases. Tables 8-26 give data in respect of these diseases for each district and city with specific death-rates per 100,000 of population. Tables 27 and 28 give these particulars for each Taluk and Municipality arranged alphabetically, and Tables 29, 30 and 31 give the monthly totals of attacks and deaths from plague, smallpox and cholera for each affected area as per daily returns received in the Bureau of Vital Statistics.

### Plague (Table 8).

As indicated on the spot map, plague was in evidence in all the districts. Attacks and deaths were reported practically in all the months of the year. As compared with 5,715 deaths in 1931, 7,232 deaths were reported during the year, of which 3,513 were male and 3,719 female. The highest number of deaths reported was in Mysore District (2,080) and the lowest in Tumkur (369). January and May were the months of highest (1,122) and lowest (159) incidence.

In Bangalore City, 116 deaths were reported and in Mysore City 175, whilst Kolar Gold Field and Civil and

Military Station reported 119 and 101 respectively.

The specific rates of mortality per 100,000 of population are given in Table 8 for each district and city. The order of incidence in the districts was: Bangalore, Mysore, Kadur, Chitaldrug, Kolar, Hassan, Shimoga and Tumkur. In cities, the order was: Mysore City (158.70), Kolar Gold Field (140.40), Civil and Military Station (74.18) and Bangalore City (64.58).

Table 29 gives a list of places affected with plague and Map 1 indicates the geographical distribution of the

disease as per daily returns.

The following Taluks, Cities and Towns reported about 100 or more deaths from plague:—

Taluk or city		Attacks	Deaths	Fatality Rate
Davangere Taluk		606	393	64.86
Shimoga Taluk		319	215	67'40
Mysore City		237	168	70'89
Chamarajnagar Taluk		233	150	64.38
Tumkur Taluk		221	137	61'99
TNarsipur Taluk		203	128	63.05
Davangere Town	V. Des	191	125	65.44
Kolar Gold Field	100	198	121	61'11
Chikmagalur Taluk	1907 80	188	121	64'36
Bangalore City		133	102	76.69
Chintamani Taluk	g	155	99	63.87

It will be noticed that the fatality rate for each one

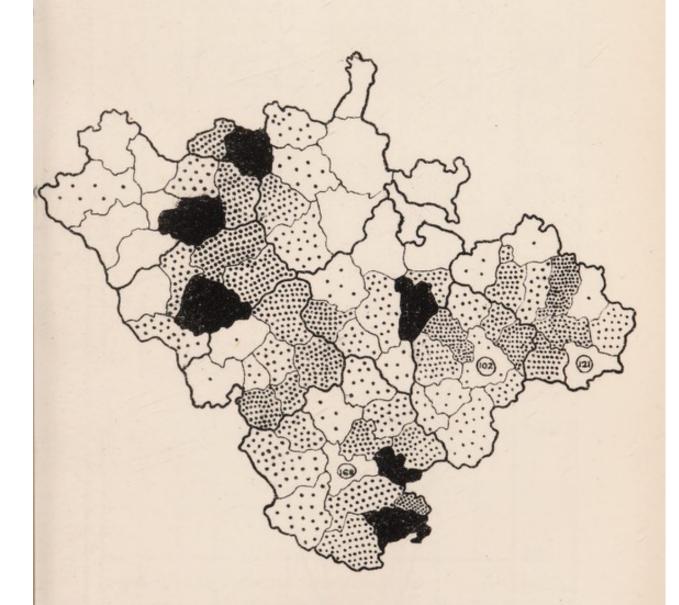
of these areas exceeds 60 per cent.

Graph 5 indicates the relative incidence of attacks and deaths from plague in each month of the year 1932. It shows that plague has the lowest incidence in May and the highest in August. A small drop in October and November is followed by a second rise in December.

### MAP1.

# - PLAGUE IN MYSORE STATE -

Dot indicates One Reported Death indicates 100 % over Figures indicate Total Deaths in Cities.



JANUARY 1, TO DECEMBER 31, 1932.

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# PLAGUE IN MYSORE STATE

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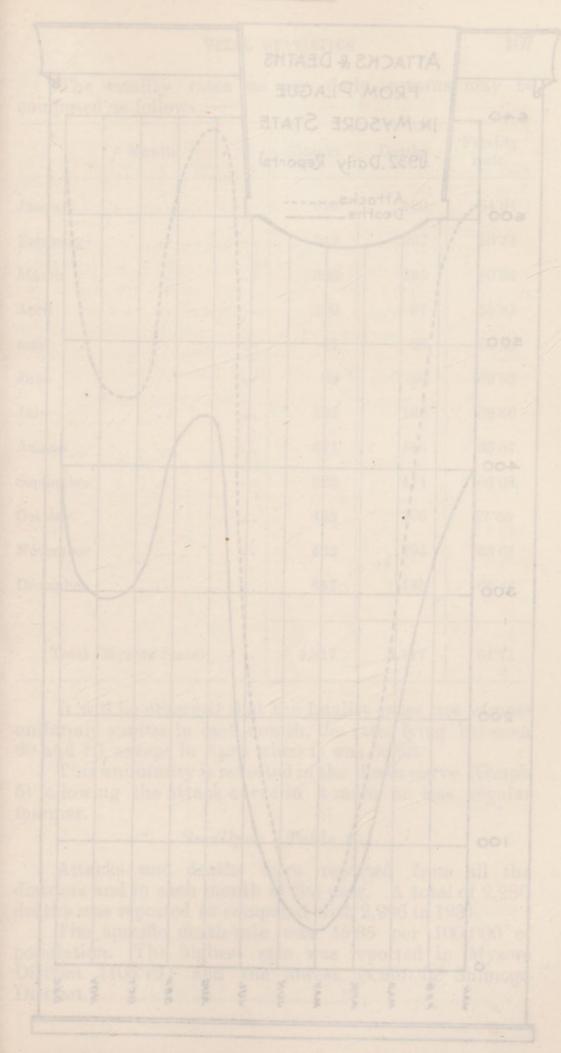
Table to give a less of places affected with plague and Man Course the prographical distribution of the

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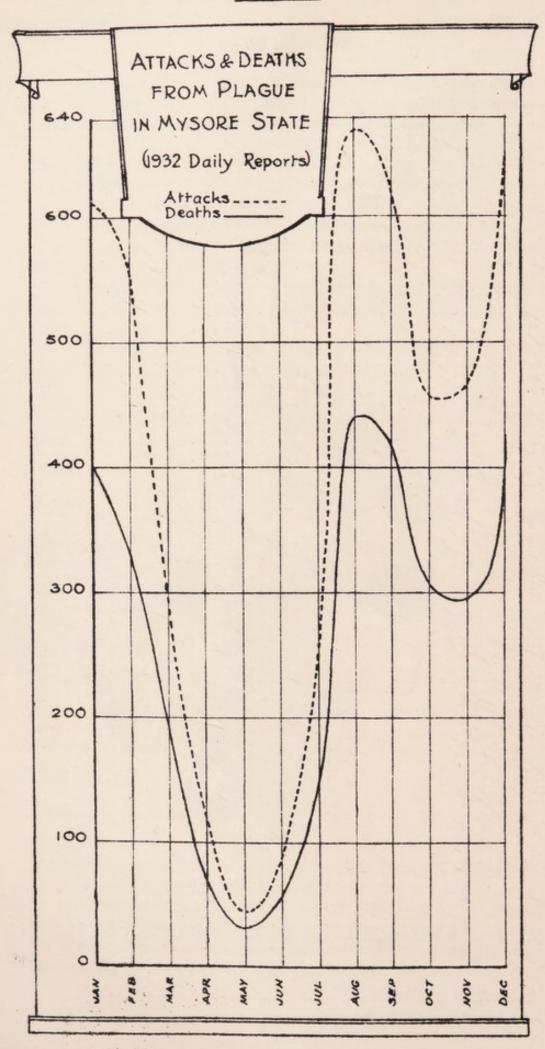
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District of August A would drop in Cotober and

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# Graph 5.



The fatality rates as per daily returns may be computed as follows:—

Month		Attacks	Deaths	Fatality Rate
January	Only	616	400	64.94
February		542	327	60.33
March		320	195	60'94
April	ilet. Fid	120	67	55.83
may		41	28	68'29
June Mari.	21.8	89	56	62.92
July		234	163	69.66
August		671	440	65.57
September		622	411	66.08
October		453	306	67.55
November		462	294	63 64
December		647	430	66'46
			-	
Total (Mysore State)	Z	4,817	3,117	64.71

It will be observed that the fatality rates are almost uniformly similar in each month, the rates lying between 60 and 70, except in April when it was 55.83.

This uniformity is reflected in the death curve (Graph 5) following the attack curve in a more or less regular manner.

### Smallpox (Table 9).

Attacks and deaths were reported from all the districts and in each month of the year. A total of 2,980 deaths was reported as compared with 2,296 in 1931.

The specific death-rate was 45.85 per 100,000 of population. The highest rate was reported in Mysore District (105.79) and the lowest (4.96) in Shimoga District.

Bangalore City reported 125 deaths, Mysore City 57, and Kolar Gold Field and Civil and Military Station 13

and 28 respectively.

Table 30 gives a list of places affected with smallpox and Map 2 indicates the geographical distribution of the disease, as per daily returns. Only Bangalore and Mysore Cities reported 50 or more deaths from smallpox in the

vear under report.

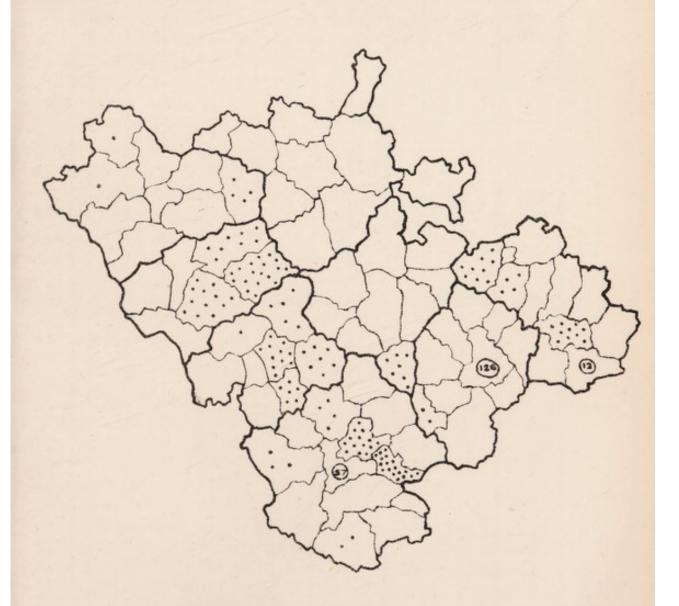
Graph 6 gives the curve of attacks and deaths from smallpox in each month of the year 1932, as per daily returns. There are two distinct peaks in April and August, the death peaks corresponding to the attack peaks. There is, however, a significant difference in the fatality rates at the two peaks, the fatality rates in April and August being 42.26 and 18.47 respectively.

The computed fatality rates are given below:-

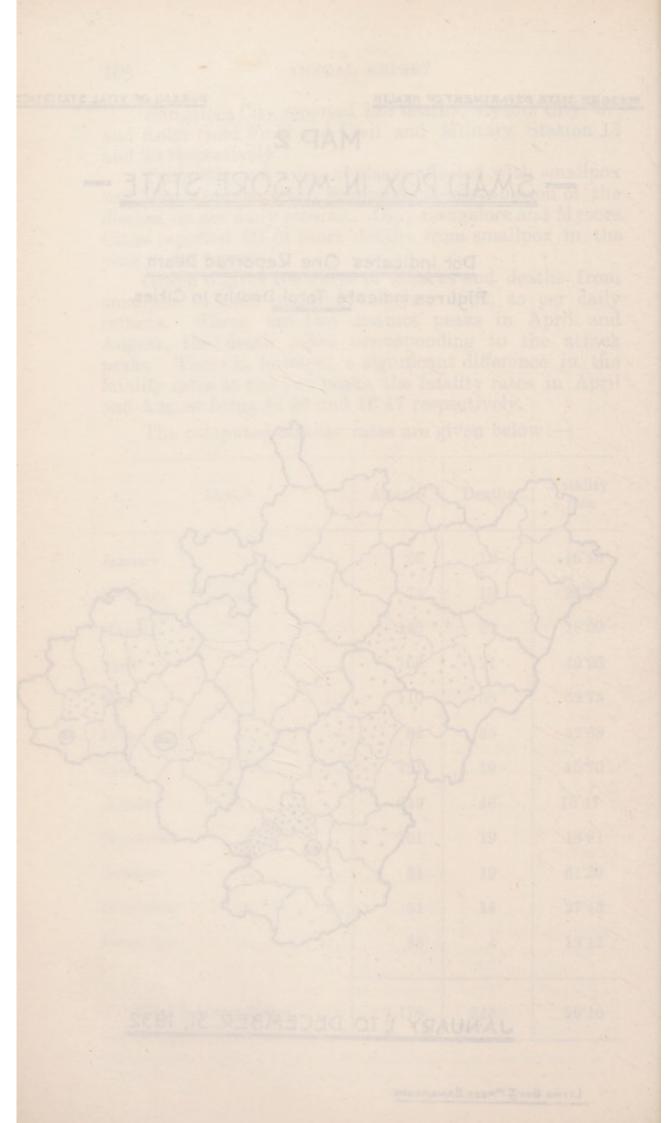
0000	003		1 25 /2	4.5	1 474
78'63 -100 20 86'05	Month	178 220	Attacks	Deaths	Fatality rate
January	10018	262	26	12	46.15
February	SIS.	cor.	71	19	26.76
March		710	150	27	18.00
April			168	71	42.26
May	THE.	TIRA	110	58	52.73
June			82	35	42.68
July	miyl	1.0	121	19	15.70
August	mo desab	w it ma	249	46	18'47
September	of re dine	in è r	101	19	18.81
October		114.0	31	19	61.29
November	(m) 1.0100	191	51	14	27.45
December	ni 80.0	Day 1.6	33	4	12.12
		F BRW	ours-uties	specifical	eriT i
Total (	Mysore State	)	1,176	343	29'16

# MAP 2. - SMALLPOX IN MYSORE STATE -

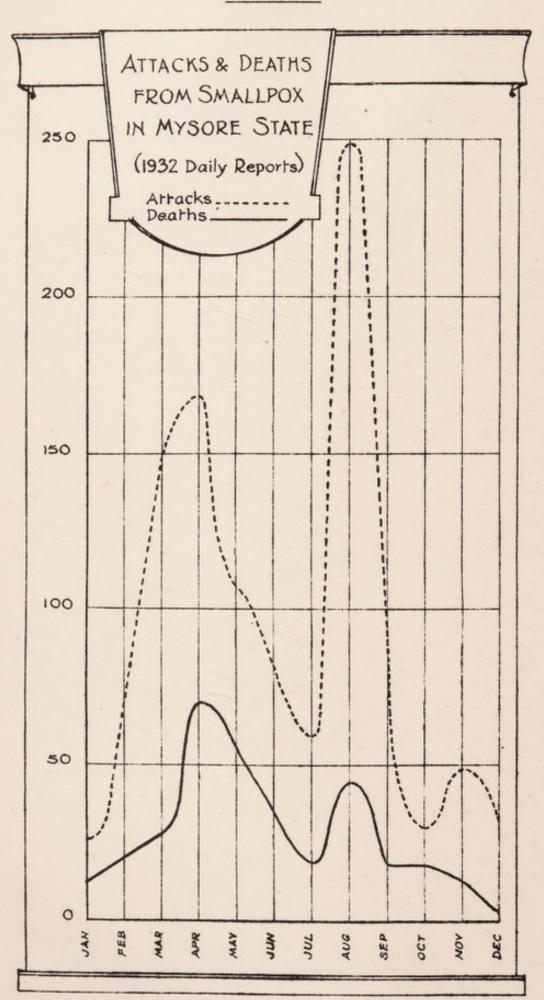
Dot indicates One Reported Death
Figures indicate Total Deaths in Cities.



JANUARY 1, TO DECEMBER 31, 1932.



Graph 6.



In contrast to plague, the fatality rates are irregular in the case of smallpox. The figures reported are very few and computed rates have little significance. Assuming them to be correct for the time being, it may be stated that the fatality rate is highest in October and lowest in December.

### Cholera (Table 10).

The State was almost entirely free from cholera in the year under report. Eighty-three deaths were recorded or about 1.28 deaths per 100,000 of population. Tumkur and Kolar Districts did not report even a single case of cholera. The highest number reported was 45 deaths, or about 2.95 per 100,000 population, in Mysore District.

Table 31 gives a list of places affected with cholera and Map 3 indicates the geographical distribution of the

disease, as per daily returns.

Of the 83 deaths reported, 50 or about 60 per cent occurred in January and none in August, September and December. The cities were reported free from this disease.

### Malaria (Table 11).

Figures included under other Fevers. In the new Death Registers, statistics of deaths from Malaria will be made available.

### Typhoid (Table 12).

As in the case of Malaria, figures of deaths from typhoid will be available for study when the new Death Registers come into use.

### Other Fevers (Table 13).

It has been the practice to include all fevers under this general head. As this system is of little value to the scientific study of diseases, it has been decided to record the deaths from Malaria and Typhoid separately. These figures will be available for study when the new Death

Registers come into general use.

During the year, 37,842 deaths, or 42.92 per cent of all deaths, were reported under this head. The computed rate per 100,000 of population comes to 582.25. The highest rate (834.03) was recorded in Kadur District and the lowest 333.66 in Bangalore district. Among cities, the highest rate (591.11) was in Kolar Gold Field and the lowest (197.64) in Bangalore City.

There was more or less uniform incidence in each month of the year. The largest number of deaths was reported in December (4,096) and the lowest number in August (2,500).

### Dysentery and Diarrhoea (Table 14).

During the year, 3,718 deaths were reported, 2,064 being male and 1,654 female. Mysore District reported the highest number (1,228) of deaths and Kadur the lowest (125). The incidence was highest in December (433) and

lowest in March (210).

Computing rates per 100,000 of population, it is seen that the highest (80.49) and lowest (26.05) rates were recorded in Mysore and Hassan Districts respectively. Kolar Gold Field recorded the highest rate of 353.96 and Mysore City the lowest rate of 225.80.

### Respiratory Diseases (Table 15).

A total of 3,538 deaths was reported in the year under report, 1,922 being male and 1,616 female. Of these, 1,384 deaths (or 39 per cent) were recorded in Bangalore District; and of these, as many as 1,153 (or 83 per cent) were reported in Bangalore City.

In December, the largest number of deaths (368) was recorded, whilst the smallest number (247) was reported

in August.

Comparing rates for 100,000 population, it will be seen that Bangalore District had the highest rate of 125.38, whilst the next highest was as low as 59.53 in Kolar District, the lowest rate being 13.36 in Hassan District.

Bangalore City had the highest rate of 641'91, Kolar Gold Field the next highest rate of 418'85, whilst Mysore

City reported as low a rate as 80.71.

### Consumption (Table 16).

It is usual to include this disease under Respiratory Diseases. A separate classification will be made as soon

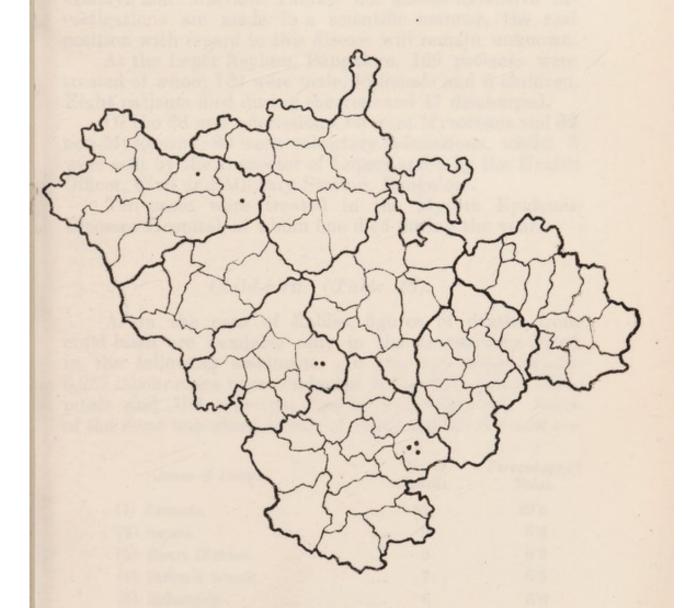
as returns are made in the new Death Registers.

At the Princess Krishnajammanni's Tuberculosis Sanatorium in Mysore City, 171 new patients were treated during the year, of whom 23 died, 49 got worse, 22 were stationary and 24 quiescent. The disease was arrested in its progress in 53 cases.

MAP 3.

# - CHOLERA IN MYSORE STATE -

Dot indicates One Reported Death



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### Leprosy (Table 17).

In the revised forms of Death Registers, a new column has been added for entering particulars of deaths from leprosy in rural and urban areas. At the present time, all that is known about the geographical or quantitative distribution of this disease is mainly in respect of the in-patients at the Leper Asylum, Bangalore, and in some of the Epidemic Diseases Hospitals. A few years ago, an investigation into the incidence of leprosy was made in Mandya and Malvalli Taluks, but unless extensive investigations are made in a scientific manner, the real position with regard to this disease will remain unknown.

At the Leper Asylum, Bangalore, 169 patients were treated of whom 129 were male, 36 female and 6 children. Eight patients died during the year and 17 discharged.

Of the 98 new admissions, 66 were Mysoreans and 32 non-Mysoreans; 89 were voluntary admissions, whilst 5 were sent by the Inspector of Lepers and 4 by the Health Officer, Civil and Military Station, Bangalore.

Ten cases were treated in the Mysore Epidemic Diseases Hospital, of whom one died during the year.

### Child-birth (Table 18).

As in the case of Rabies, figures of deaths from child-birth are available only in the Institutions listed in the following statement. In the year under report, 6,257 labour cases were conducted in the Maternity Hospitals and 108 maternal deaths were reported. Some of the more important causes of death are listed below:—

Cause of Death.		$No.\ of$ $Deaths.$	Percentage of Total.
(1) Anæmia		 32	29.6
(2) Sepsis		 9	8.3
(3) Heart Disease		 9	8.3
(4) Difficult labour		 7	6.5
(5) Eclampsia		 6	5.6
(6) Diarrhoea		 5	4.6
(7) Pneumonia		 5	4.6
	Total	 73	67.5

It will be seen that 67:5 per cent (or two-thirds) of deaths from child-birth are due to the seven causes listed above. Under-feeding, poverty and over-exertion during the later stages of pregnancy and improper care before admission into hospitals appear to be largely responsible for this.

The following statement gives the statistics of labour cases conducted and the causes of death from child-birth in the different hospitals and dispensaries in Mysore State.

Statistics of Labour Cases conducted and the Causes of Death from Child-birth in the different Hospitals and Dispensaries in Mysore State in the year 1932.

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	Chronic Nephritis		-
	Septicamia	1111111-111-1111111	-
	Heart Disease	©	6
rth	Premature Labour	111-111111111111111	-
ld-bi	Dysentery	m-11111111111111111	4
Chi	Diarrhosa	100	4
from	Angmis and Heart sassesib	111711111111111111111	-
Deaths from Child-birth	Tuberculosis .		4
	Janudice		00
Causes of	Cancrum Oris		-
Ca	Bronght in Septic and Exhausted condi- tion	11111111111111111	-
	Complex Delivery due to bad bandl- ing outside	111111111101111111111111	00
9	Chronic Malaria		-
100	Difficult labour		1-
	Pernicions Amemia		7
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	Pneumonia Eclampsia		10
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	Sepsis		9 82
	No. of deaths from Child-birth	88 000 1000 1440 10 1-1-0	108
	Number of labour	2,428 1,248 61 872 198 198 198 198 198 198 198 198 198 198	6,257
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þ		8888	
		Bangalore  I, Mysore  do I Hospital, I, K.G.F. hintamani I, Shimoga HNarsipu Davangere Tumkur Chennapatı Tiptur Saklespur Saklespur Chitaldrug Sagar Kolar Kolar Chikballapy Nanjangud Mudgere Tirthahalli	Total
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Assuming for the moment that the statistics given in the preceding statement is really representative of the whole State it may be stated that the maternal mortality in 1932 was 17.26 per thousand births.

# Injuries (Table 19).

Of the total of 1,165 deaths from injuries, 675 were male and 490 female. The Cities reported as many as 191 deaths, 115 (or 60 per cent) being registered in Kolar Gold Field. It may be remarked however, that in Mysore City only three deaths were reported as due to injuries. Bangalore City reported 73 deaths, 46 male and 27 female.

Classified by months August had the highest (117) total of deaths from injuries and January the least (66).

Comparing the rates per 1,00,000 of the population it is seen that the highest rate (35.84) was in Kolar District and lowest (11.80) in Mysore District. The rates in the Cities were in order Kolar Gold Field (135.69), Bangalore (40.64), C. and M. Station (32.31) and Mysore (2.72).

### Suicide (Table 20).

During the year 175 suicides, (86 male and 89 female) were reported. Of these, one suicide was reported in Bangalore City, one in Mysore City and two in Kolar Gold Field. The largest number reported, viz., 23 was in December, the next largest being 22 in October.

# Drowning (Table 21).

Figures included under Wounds and Accidents. In the new Death Registers particulars of deaths from drowning will be made available.

# Wounds and Accidents (Table 22).

A total of 821 deaths was reported as due to wounds and accidents. Of these, 69 deaths occurred in Bangalore City, 111 in Kolar Gold Field and only one in Mysore City.

# Wild Beasts (Table 23).

Monthwar figures of 169 deaths caused by wild beasts are given in Table 23. These figures include also the deaths from snake-bites. Deaths reported from this cause in Bangalore City were three, in Kolar Gold Field two, and one in Mysore City.

ted.

### Snake-bite (Table 24).

Figures included under deaths caused by wild beasts. Separate figures will be available for study in the new Death Registers.

### Rabies (Table 25).

In the new Death Registers it is also proposed to collect data in respect of deaths from Rabies in all urban and rural areas. The following statistics refer to 752 treatments for rabies in the Institutions listed:-

Institutions.	Nı	umber tre	eat
(1) Victoria Hospital, Bangalore		356	
(2) Krishnarajendra Hospital, Mysore		341	
(3) District Hospital, Chikmagalur		20	
(4) District Hospital, Chitaldrug		6	
(5) Civil Hospital, Kolar		29	
(6) Civil Hospital, Kolar Gold Field		Nil.	
Total		752	

# All Other Causes (Table 26).

Under this general head, 31,617 deaths have been lumped together without specifying the cause of death. It has become increasingly necessary to open a new Table to record the differences in the percentages these figures bear to total deaths in each district and city. Table 26 indicates that approximately 36 per cent of all deaths reported in 1932 were not classified at all. In Bangalore District, the percentage was as high as 44, the lowest being 25 in Hassan District.

In city areas 53 per cent of deaths were unclassified indicating that the practice of reporting deaths without classifying them are popular. Mysore City tops the list, having reported 63 per cent of all reported deaths unclassified. Bangalore City comes next with 52 per cent.

In Kolar Gold Field it was 46 per cent.

TABLE 1.

Reported Births in the Districts and Cities in each month of the year 1932.

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Birth-rate	20.84	19-47	11.36	14.81	20.86	15-77
Born dead	ofdelis:	.əle.	daliava	nres not	Ria	
Born alive		9	Idaliava	qou səan	Big	UJ2/9CL
Total (Reported Births).	11,257 11,195 22,452	6,580 6,420 13,000	3,513 3,288 6,801	2,580 2,422 5,002	8,922 8,922 17,862	12,895 11,666 24,061
Десешреь.	970 967 1,987	542 551 1,098	442 362 804	271 252 523	677 708 1,385	1,156
November	1,014 1,056 2,070	638 637 1,275	875 395 770	247 203 450	844 901 1,745	1,244 1,164 2,408
October	1,081 1,088 2,119	616 537 1,153	366 312 678	221 221 442	978 978 1,956	1,159
September	981 1,061 2,042	527 1,067	325 325 684	208 208 429	918 951 1,869	1,063 928 1,986
4su8uA	970 962 1,982	576 1,157	152 116 268	216 200 416	868 811 1,679	980 980 1,888
July	974 977 1,951	642 620 1,262	118 135 248	226 231 457	913 833 1,746	1,028 987 2,015
June	874 843 1,717	520 521 1,041	288 278 566	154 174 328	680 783 1,463	959 932 1,891
May	818 849 1,667	514 481 995	270 269 589	238 211 444	652 646 1,298	1,010 902 1,912
IirqA	1,005	548 491 1,039	219 227 446	197 153 350	655 564 1,219	969 903 1,872
March	902 919 1,821	500 584 1,084	827 2 <b>5</b> 2 579	224 197 421	629 582 1,211	982 1,928
February	871 825 1,69 <b>6</b>	491 50 <b>5</b> 996	295 298 593	147 168 315	544 571 1,115	921 890 1,811
January	797 792 1,689	458 440 898	307 319 626	218 209 427	582 594 1,176	942 918 1,860
ddiyrdy w	!!!	111	111	:::		cicios de la companya
ct	Male Female Total	Male Female Total	Male Female Total	Male Female Total	Male Female Total	Male Female Total
District		:	:	:	:	:
	Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore

18.69	19.08	17-79	88-50	25-11	44.47	39.45
888	- 64	of available.	Figures n			
		ot available.	n sərngiH	-		
4,939	8,574	58,778	2,951	1,469	1,893	2,761
4,848	8,088	56,849	3,067	1,300	1,876	2,611
9,787	16,662	1,15,627	6,018	2,769	3,769	5,372
428	797	5,288	262	189	187	255
419	789	5,069	282	106	172	256
847	1,536	10,352	544	245	359	514
412	768	5,542	226	142	161	236
430	685	5,471	230	128	184	234
842	1,458	11,013	456	270	845	470
422 374 796	826 811 1,637	5,669 5,38 <b>5</b> 11,054	210 218 428	140	174	248 254 502
396	778	5,251	219	151	181	257
415	752	5,157	227	120	175	211
811	1,530	10,408	446	271	356	468
439	706	4,885	220	108	181	280
410	647	4,652	232	96	168	235
849	1,353	9,537	452	199	349	515
464	885	5,195	285	121	184	238
489	757	5,029	265	112	172	214
953	1,592	10,224	500	233	356	452
402	654	4,531	225	98	168	198
414	585	4,530	234	86	166	178
816	1,289	9,061	459	176	329	876
428	612	4,532	224	104 107 211	129	189
404	570	4,332	745		147	202
827	1,182	8,864	469		276	391
422	664	4,699	871	102	147	176
354	634	4,23 <b>2</b>	845	94	115	174
776	1,298	8,911	716	196	262	350
48 <b>5</b> 526 1,011	690	4,748	311	144	149	254
	668	4,610	818	112	109	228
	1,858	9,358	629	256	258	477
286	660	4,215	250	1111 104 215	115	213
267	701	4,225	262		117	218
553	1,361	8,440	512		282	431
360	584	4,248	198	122	192	213
346	539	4,157	209	115	162	212
706	1,123	8,405	407	237	284	426
. : : :	111	1111	11:	111	111	:::
Male	Male	Male	Male	Male	Male	Male
Female	Female	Female	Female	Female	Female	Female
Total	Total	Total	Total	Total	Total	Total
Shimoga	Tumkur	Total '(Mysore State).*	Bangalore City	Mysore City	Kolar Gold Field.	C. and M. Station.

\* Excluding C. and M. Station, Bangalore.

Reported Deaths in the Districts and Cities in each month of the year 1932. (As per MonthlyReturns.) TABLE 2.

	Death	18-06	4.47	10.80	15.40	15-82	13-27	16.87
	Total	7,314 7,098 14,412	4,980 4,688 9,668	3,279 3,184 6,463	2,794 2,589 5,883	7,069 6,480 13,549	10,30 <b>5</b> 9,935 20,240	4,296 4,016 8,312
	December	751 695 1,446	657 668 1,325	358 386 744	288 301 584	582 559 1,141	1,001 1,114 2,115	582 568 1,150
	November .	637 610 1,247	532 577 1,109	3343 676	273 224 497	579 517 1,096	1,121 1,036 2,157	468 487 950
and the same	October	560 570 1,180	445 462 907	258 258 516	210 189 399	585 584 1,069	875 817 1,692	350 342 692
	September	566 608 1,174	411 891 802	810 260 570	204 219 423	566 528 1,094	860 817 1,677	334 294 628
	1sn3n <b>y</b>	560 552 1,112	418 360 773	118 102 220	184 176 360	544 507 1,051	854 831 1,685	834 278 612
	Amg	596 689 1,285	288	1115 1112 227	196 172 368	567 509 1,076	849 863 1,712	385 298 <b>684</b>
	June	560 498 1,0 <b>5</b> 8	266 249 515	279 262 541	182 173 855	580 468 998	757 736 1,493	258 240 498
	Мау	543 514 1,057	344 284 628	284 292 576	226 193 419	518 467 980	778 729 1,495	248 619
	firqA	561 515 1.076	432 350 782	280 220 450	201 173 874	560 528 1,088	729 670 1,399	285 289 524
	March	613 554 1,167	422 372 794	324 282 606	289- 213 452	630 562 1,192	757 710 1,467	367 382 749
	February	629 598 1,222	347 309 656	305 285 590	298 251 544	627 576 1,203	782 1,488	283 288 470
	January	738 750 1,488	423 872 795	365 382 747	308 808 608	886 725 1,561	973 887 1,860	484 407 891
		111	111	:::	:::	111	111	111
	ict	Male Female Total	Male Female Total	Male Female Total	Male Female Total	Male Female Total	Male Female Total	Male Female Total
	District	1	:	1	:		1	1
		Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga

11.63	18-57	26.19	23.80	30.62	28-52	-
5,852 4.801 10,153	45,389 42,786 88,175	2,324 4,704	1,286 1,838 2,624	1,459 1,136 2,595	1,983	
525 508 1,028	4,789 4,794 9,588	270 231 501	104 182 286	149 115 264	175 192 367	1
470 420 890	4,408 4,214 8,622	226 217 443	147 139 286	106 78 184	160 179 389	
416 890 806	3,649 3,562 7,211	197 200 397	119 125 244	100 187 187	169 164 353	-
892 840 782	3,643 8,457 7,100	176 186 362	115	126 104 230	175 158 388	
390 338 728	8,397 3,144 6,541	185 187 372	109 108 212	127 104 231	162 142 354	
388 386 775	3,336 8,268 6,604	189 194 388	95 117 212	124 101 225	158 159 317	
414 846 760	3,241 2,972 6,218	192 176 868	79 88 162	110 85 195	154 146 300	
416 3 <b>5</b> 9 775	8,370 8,079 6,449	209 216 425	195	108 94 202	123 143 266	
456 870 826	3,454 3,065 6,519	210 177 887	99 93 192	108 86 194	128 132 260	
468 454 922	3,529 7,349	186	105 109 214	128 84 212	148 153 296	-
475 431 906	3,669 3,410 7,079	170 169 889	101 9 <b>5</b> 196	130 89 219	179 167 346	
541 464- 1,005	4,663 4,292 8,955	170 177 847	118 132 245	140 112 252	207 166 373	
111		111	111	111	!!!	
Male Female Total	Female Total	Male Female Total	Male Female Total	Male Female Total	Male Female Total	C. Mr. Ot.
Tumkur	Total (Mysore State)* Male Female Total	Bangalore City	Mysore City	Kolar Gold Field.	C. & M. Station	# 10 1 30 C 14 CO. A.

\* Excluding C. & M. Station, Bangalore.

TABLE 3.

		Estimate	Estimated Population as on July 1, 1932	n as on Ju	ly 1, 1932	Num	Number of Deaths Registered	ths Regis	tered	Death Ra	tes per 1	Death Rates per 1,000 of Population	pulation
District	4	Musalmank	anbaiH	Other	IstoT	snamissnik	subniH	Other	TetoT	ansmissuM	subniH	Other Classes	IstoT
Bangalore		81,584	999,874	22,197	1,103,831	985	13,077	350	14,412	12:07	18.09	15.77	13.06
Chitaldrug		37,667	626,280	8,745	667,690	495	8,948	220	9,633	18.14	14.29	58.74	14-47
Hassan		21,818	160,693	7,785	598,689	377	5,910	176	6,463	17-28	10.38	22-61	10-80
Kadur		19,627	321,810	8,190	349,628	412	4,487	181	5,883	66.07	13.94	59-10	15.40
Kolar		66,794	764,515	25,881	856,690	1,050	10,977	1,522	13,549	15-72	14.36	29-97	15 82
Mysore		808'69	1,445,810	17,559	1,525,679	896	19,147	125	20,240	18-97	13-24	7.13	13.27
Shimoga		41,641	465,994	14,975	523,690	488	7,612	212	8,812	11-72	16.83	14.16	15.87
Tumkur	-	45,265	817,748	10,314	873,322	254	9,754	45	10,153	7.82	11-98	4.36	11-63
Total (Mysore State)*	re State)*	3,77,376	6,012,911	110,146	6,499,218	6,189	79,912	8,184	88,175	18.59	13-29	28.45	13-57
Bangalore City		20,788	150,649	8,232	179,620	574	8,963	167	4,704	27.68	26.81	90-99	96-19
Mysore City		18,314	87,236	4,721	110,278	578	1,988	63	2,624	31.56	22-78	13.34	23.80
Kolar Gold Field		6,713	61,702	16,340	84,755	287	1,755	603	2,595	85-81	28.44	98-90	30-62
C. & M. Station		29,104	75,075	31,981	136,162	2,185	1,032	199	3,884	75.08	18-75	20.86	28-52

\*Excluding C. & M. Station, Bangalore.

TABLE 4.

Deat	Deaths reported in Districts and	in D	istricts		ities ch	assified	Cities classified according	ing to	to Age and	Sex in	the ye	the year 1932.	6.
	District	HIT	Under one year	One year to five years	6-10	10—15	15-20	30—30	80—40	40—50	09-09	60 and over	Total all ages
Bangalore	Male Female Total	1111	1,197 1,028 2,225	1,087 1,040 2,127	449 428 877	364 354 718	362 493 855	591 764 1,855	569 586 1,155	584 454 988	489 429 918	1,672 1,622 3,194	7,314 7,098 14,412
Chitaldrug	Male Female Total	111	601 524 1,125	662 622 1,284	322 360 682	241 251 492	292 358 650	490 708 1,198	511 481 992	409 848 752	395 302 697	1,047 739 1,786	4,970 4,688 9,658
Hassan	Male Female Total	111	370 378 748	361 299 660	208 211 414	169 168 337	184 207 391	898 479 877	412 415 827	348 265 613	281 282 518	558 530 1,083	3,279 3,184 5,463
Kadur	Male Female Total	1:1	314 262 576	255 290 545	190 175 365	137 128 265	170 181 861	304 463 767	427 854 781	383 244 627	274 182 456	340 310 650	2,794 2,589 5,388
Kolar	Male Female Total	111	1,073	954 817 1,771	354 380 734	250 275 525	254 857 611	567 632 1,199	677 563 1,140	569 446 1,015	566 410 976	1,905 1,597 3,502	7,069 6,480 13,549
Mysore	Male Female Total	111	823 685 1,508	1,429 1,492 2,921	789 805 1,594	587 519 1,056	535 657 1,192	986 1,809 2,295	1,156 978 2,134	1,087	871 761 1,682	2,142 1,957 <b>4</b> ,099	10,805 9,935 20,240
Shimoga	Male Female Total	111	567 539 1,106	475 465 940	281 246 477	191 175 366	202 283 485	498 630 1,128	627 496 1,123	487 338 825	399 302 701	619 542 1.161	4,296 4,016 8,312
-	-	-	-	-						1		-	1

Table 4-concld.

District		Under one year	One year to five years	5-10	10-15	15-20	20-30	30-40	40-50	20-60	60 and over	Total all ages
Tumkur M	Male Female	. 921 741 1,662	504 1,074	234 219 453	213 187 400	213 266 479	353 558 911	392 410 802	890 311 701	512 892 904	1,554 1,218 2,767	5,352 4,801 10,153
Total (Mysore State)* M. Fe	Male Female	6,866 5,160 11,026	5,793 5,529 11,322	2,782 2,824 5,606	2,102 2,057 4,159	2,212 2,802 5,014	4,187 5,538 9,725	4,671 4,288 8,954	4,167 8,173 7,830	8,787 8,010 6,797	9,832 8,410 18,242	45,389 42,786 88,17 <b>5</b>
Estimated Population Male In 1932.* Total	Male Female	86,015 89,175 175,190	878,936 388,386 762,272	435,804 485,448 871,252	418,413 898,861 811,774	305,411 298,690 604,151	561,608 590,098 1,151,701	486,583 416,804 908,387	330,035 260,129 590,164	176,918 168,094 340,012	150,196 139,127 289,828	8,824,916 8.174,302 6,499,218
Death rates in each Maage group. Fe	Male Female	68-20 57-86 62-94	15·49 14·24 14·8 <b>5</b>	6.43	5.02 5.28 5.12	7.24 9.88 8.30	7.46 9.38 8.44	9.60 10.28 9.91	12-60 12-20 12-42	21.40 18.45 19.99	65.46 60.45 63.05	13:65 13:48 13:57
Bangalore City Re To	Male Female	576 508 1,084	481 918	128 128 253	988	1112 177 289	197 216 412	184 171 855	156 108 2 <b>5</b> 9	153 126 279	845 324 669	2,380 2,324 4,704
Mysore City Ws Fe To	Male Female Total	177	176 189 365	81 98 179	44 173 117	43 98 186	131 218 849	152 132 284	189 97 286	109 78 182	284 218 447	1,286 1,338 2,624
Kolar Gold Field Ma Fe To	Male Female Total	384 692	220 480	39 59 88	388	41 77	166 88 264	140 64 204	123 50 178	98 40 138	202 206 408	1,460 1,135 2,595
Civil and Military Ma Station. To	Male Female	111	111	!!!	111		111	111	111	111	:::	111

\* Excluding Civil and Military Station, Bangalore.

Statistics of Births and Deaths from different diseases among Males and Females in Mysore State in the year 1932. TABLE 5.

	noitaln			Total	Total Report Births	orted							sesses					sissod			Total Reported Deaths	ported
District	ed Pop	Sex		Births	18	- 93a		xo				вар вид		3		20				r Cause		otal
	tsmitsH 289I ni		1	Born	Born	Birth B	Plague	q-flamS	Cholera Malaria	Typhoio	Other F	Dysente	Respira	Leprosy	Suicide	Drownii	spunoM	Killed b	ssidsH	All othe	Total	Desth B
Bangalore	. 565,707 588,124	Males Females	11	11,257		19-99	766	212 226	4.01		1,915	871	669		11		99	15		8,242	7,814	12.99
7	1,103,831	Total	:	22,452		20.34	1,615	438	9		3,683	716 1	1,384		28	,	171	50	9	6,856	14,412	18.06
Chitaldrug	342,432 325,258	Males Females	11	6,580 6,420	ble.	19-22	387	130	-10 lebe.		2,632	145	149 189 189	able.	80	able.	80 80	co lo able.		1,897	4,980	14.54
	069,690	Total	:	18,000	silava	19-47	811	248	S S	7	5,103	264	62 Giava te	liava to	1 1	lisva to	1 89	ro lisvs to		,875	899'6	14.47
Hassan	301,892	Males Females	::	8,513	inces not	11.64	286 344	48	ro or		1,984	8.8	& S on seringi	n sərugi on sərugi	04	n sərngi	818	o a	ou soans	776	8,184	10.86
	598,687	Total	:	6,801	Fig	11.36	630	105	t-	1 :	8,815	156	8	E	14	H	54	- 55 - A		689,1	6,463	10-80
Kadur	185,708	Males Females	11	2,580		13:89	209	818	1 11 01		1,533	45.85 4.85	109		- :		1811	010		748	2,589	15.06
	349,628	Total	:	5,002	,	14.31	437	144	00	:	2,916	125	175	-/-	1		56	16	E	1,581	5,883	15.40

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ported	ets:	Desth B	16-81	15.82	18.41	18-27	16.49	15-87	12.02	11.63	13.65 18.48 18.57
Total Reported Deaths		IstoT	7,069	18,549	10,806	20,240	4,296	8,312	5,352	10,158	<b>45</b> ,889 42,786 88,175
89	sneO 1	уп отре	2,871	5,636	3,178	6,478	1,611	3,912	2,022	3,940	15,921 15,696 81,617
		Rabies					isva fon				
		Snake-1	10	31	12.0	88	EVE TOR	138	13	53	4:50
stassed	bliW v	Killed b	10 10								114 555 169
stasbiss	A bus	Wounds	158	285	55	100	26	000	588	114	469 352 821
-	Bu	Drownii			1 00	1	isvs ton	1 1			1 10 0 10
		Suicide	17	4	19	45		=	22	8	88 89 175
		Child-bi			-		not avai	Withdraw and Co.	CHARLEST THE PARTY NAMED IN		
-	AND DESCRIPTION OF THE PARTY OF	Consum					вув топ				
sessesi	tory D	Respira	298	510	282	208	153	231	214	401	1,922 1,616 3,538
1	эгу впо	Dysente	330	556	675	1,228	205	884	166	289	2,064 1,654 3,718
	STOVE	Ofper F	2,762	6,289	3,861	8,107	2,074	3,997	2,660	4,932	19,809 18,033 37,842
	Į.	Typhoi	TIT		1 ::	1		1 : 1	::	1	
		sitalaM	111	- :	178	.əldali	EVE TOR	Figures	11	1 :	8 8 8 1
-		Cholera	The Management				175	98	878	55	
	X0	q-flam2	175	340	774	1,614		G1	0100	9	1,442 1,538 2,980
1 188		Plague	469	911	1,022	2,080	199	879	188	698	3,518 2,719 7,282
hed	etal	H drift	20.40	20-85	16.13	15-77	17-81	18-69	19-26 18-89	19.08	17.68 17.91 17.79
Total Reported Births	18	Born		Tolk		lable.	iava ton	səandiğ	1		
Total	Births	Born	8,940	17,862	12,395 11,666	24,061	4,989	9,787	8,574	16,662	58,778 56,849 115,627
			11	1		1.	111	:	::	:	111
	Sex		Males Females	Total	Males Females	Total	Males Females	Total	Males Females	Total	Males Females Total
noitalno	ed Pol	Estimat in 1982	438,275	856,690	768,396 757,283	1,525,679	246,801	528,690	445,117	873,322	8,824,916 8,174,802 6,499,218
			:		:		21		:	11	1
10	ct									34	9
	District		Kolar		Mysore		Shimoga		Tumkur	The state of	Mysore State

Statistics of Births and Deaths from different diseases in Urban and Rural Areas of Mysore State in the year 1932. TABLE 6.

lo		oitsInq SS21		Total Reported Births	ported	1		190			100	pt	Disease	ī			Acciden	ild beast	767	səsn	Total F	Total Reported Deaths
			100	Births							Fever	тегу ат		noisqui	hirth	1	-	ph M	annual transfer of the	рег Са		steH r
Born	Estima as on . Aliv					Birth	Plagre	-Ilams	Choler	L'Abpo		Dysen Distr		Consu	Child	Buicid	Noun	КіЛед	Snake		Total	Deatl
986 7,873 845 14,579	258,986 7,8 844,845 14,5			73	30	30.40	339	128	: 9	00	9,066	469 1	920	-	24	212	89	16	2 3	3,497	5,664	21.87
249 1, <b>5</b> 13 441 11,487	68,249 1, <b>5</b> 1 599,441 11,48	1-	1 - 0	00.15	192	22-17	182	10	13:: 1	41	352	15 249	222			400	9 62	13		2,367	1,106	16-21
497 1,202 192 5,599	54,497 1,202 544,192 5,599	-	1200			22.06	67	105	-1:		234 8,581	3.5	48	77.77		200	47	113		1,184	5,635	10.35
785 873 892 4,129	40,785 878 808,892 4,129	4	23	14olio.	Idelia:	00 F-	120	22.22	ca  deliav	dslisv	2,649	888	153	dalicy	daliav.	-a: r-	8 12 8	138	daliav. daliav	1,194	4,569	19.98
797 5,888 702 18,678	22,797 5,888 1,297,702 18,678	-	1388	10 4011		98 1	465	188 1	8 ton	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	984	348	134 874		s not a	27.01	28	35.0	THE RESERVE TO SHARE THE PARTY OF THE PARTY	2,326 4,152	4,429	19.43
403 6.009 287 11,858	156,403 6,009 700,287 11,853		688	Joanna		98	249	810	sərngi	NAME AND ADDRESS OF THE OWNER, TH	867	324	386	-	erugi	66 0	129	7 24	mentioned the same	3,923	9,839	28.72
514 1,463 176 8,324			263			22.68 18.13	918	E 83	E E	A	3,706	19	205		1	:=	2188	11	-	2,815	7,502	12r56 16·34
943 1,788 879 14,879	62,943 810,879 14,879	-	100	1	188	1 88	908	:13	1 : :	-	241	49 240	76 325			19 13	걸장	28 j		3,471	916	14.55
905 '26, 104 913 89,528	1	1	388	f	27.	94 5,1	546	876	122	200	34,039	2,399	1,658		12.5	26	268	24 145		9,014	18,277	19.56

\* These figures include deaths from Snake-bite.

TABLE 7.

Reported Deaths of Infants under one year of age in the Districts and Cities for each month of the year 1932. (As per Monthly Returns.)

	Yalifa	ProM tastal	99.10				116.22			99-75	95-36	180-13	118-82	188.60	199-93	
		Born Alive	-			i don					nile			He Mark		
		1						-			1	_				The same of
	infants ear)	Total	2,225	1,125	748	576	2,076	1,508	1,106	1,662	11,026	1,084	329	692	1,074	
December)	Total (Deaths of infants under one year)	Female	1,028	524	378	262	1,008	685	539	741	5,160	508	162	334	502	
26	Total (D	Male	1,197	109	870	814	1,078	823	567	921	5,866	676	177	828	573	
таппа	29	<b>Decemper</b>	241	128	66	63	231	165	160	188	1,270	120	150	77	108	
		November	198	100	74	48	183	149	126	152	1,080	96	28	62	06	
and ext		Осторы	174	101	02	49	191	154	106	141	926	66	27	55	85	
		September	201	91	65	55	204	1117	115	131	979	87	27	89	120	
1007		AuguA	184	88	28	89	181	154	73	911	898	87	36	99	94	
year		July	209	98	43	38	166	181	97	116	988	06	88	99	88	
		əung	300	7.1	69	46	145	106	87	182	846	94	10	49	68	
	le le	Лију	170	91	61	83	125	112	58	123	779	66	29	48	77	
one in hone		lirqA	169	98	20	34	125	101	70	127	166	97	20	81	20	
1		March	144	80	61	40	189	83	19 6	126	743	75	24	49	93	
000		Бергаагу	162	777	57	200	160	106	50	181	773	69	24	47	76	
		January	188	126	11-	75	366	121	100	184	1,135	72	35	92	115	
				:			:	:	:		:			***		
		District	Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tunkur	Total Mysore State*	Bangalore City	Mysore City	Kolar Gold Field	C. & M. Station	

\* Excluding C. & M. Station, Bangalore.

TABLE 8.

Reported Deaths from Plague in the Districts and Cities in each month of the year 1932. (As per Monthly Returns.)

aths per 0,000 of noitsing	D6	146-31	121-46	105-23	124.99	106.34	136.33	72-87	42-25	111-27	64.58	158-70	140.40	74.18
nber of	Total	1,615	811	630	487	911	2,080	879	869	7,282	116	175	119	101
Total (Deaths from Plague)	Female 7	649	424	844	500	469	1,058	180	186	8,719	97	81	48	:
Total	Male F	994	387	586	228	442	1,022	199	188	8,518	70	94	71	:
зешрет	Dec	92	227	124	47	68	173	27	24	787	21	53	20	00
дәфиз	ion	68	168	98	355	46	153	55	21	602	11	59	1-	20
орек	Oct	128	126	15	57	47	154	56	17	999	55	33	111	10
tember	dəs	187	96	83	49	58	279	48	88	762	5	34	19	9
1suy	dny	182	114	27	33	46	317	102	48	818	00	55	12	14
Á	luc	88	30	4	21	28	194	74	43	486	9	9	9	;
ə	unc	22	9	14	6	1-	116	27	:	300	:	00	-	1
Á	Ma	16	:	40	21	7	75			159	:	:	1	1
lis	rdA	62	9	900	12	31	82	60	4	252	6	9	4	C4
toh	Men	170	5	8	43	141	127	4	85	589	6	4	11	10
rusery	Eeb.	289	15	63	11	149	222	9	75	888	13	1	16	<b>7</b> 8
Lieni	net	401	20	118	40	898	186	16	73	1,122	12	90	11	200
		:	:	:	1	1	:	:	:	:	:		:	:
District	- American	Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tumkur	Total (Mysore State)"	Bangalore City	Mysore City	Kolar Gold Field	C. & M. Station

\* Excluding C. & M. Station, Bangalore.

TABLE 9.

Reported Deaths from Small-pox in the Districts and Cities, in each month of the year 1932. (As per Monthly Returns.

sdaes to deaths to 000,000, I required notified of	89.68	37-14	17.54	41.19	69-68	105.79	96-7	7-44	45.85	69.69	51-69	15.84	20.56
LetoT	438	248	105	144	840	1,614	98	65	2,980	125	57	18	28
Female I	955	118	57	81	165	840	14	37	1,538	65	81	00	:
Male	212	130	48	63	175	774	12	28	1,442	09	26	10	:
Decemper	58	17	1	6	9	109		16	222	23	:	:	1
Nоvember	28	17	4	ব	24	124	9	4	210		.:	1	:
October	47	16	8	9	41	35	00	力	217	9	1	:	:
September	36	55	1-	00	90	111	1	11	252	5	:	1	1
4sn8ny	30	85	5	5	98	149	1	10	898	8	4	00	63
Amr	59	55	10	12	16	218	10	10	347	9	00		-
June	44 F-	25	9	17	27	177	9	1	908	88	1	1	4
Мау	55	23	10	55	22	185	:	1-	321	48	6		-
firqA	49	17	7	11	28	158	C3	í	273	31	15	1	00
March	20	10	13	12	80	128	:	1	500	1	10	:	4
Pebruary	12	1	17	33	55	105	:	1	500	1	10	ā	:
January	10	21	16	16	58	53	60	Į.	146	-	4	-	1
		. :	:	:	:	:	:	:	1:	1:	i		1
1 2 2 2 2 2	8									1			
District	:	:	:	1	. :	:	:	:	ate)*	1:		:	
Constitution of the state of th	Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tumkur	Total (Mysore State)*	Bangalore City	Mysore City	Kolar Gold Field	C. & M. Station

\* Excluding C. & M. Station, Bangalore.

TABLE 10.

Reported deaths from Cholera in the Districts and Cities in each month of the year 1932.

(As per Monthly Returns.)

000	Numl Death 1,00,1 Indoq	0.54	1.96	1.17	98.0	0.00	2-95	1.72	00-0	1.28	00.0	0.00	00:0	00.0
from	Total	9	13	7	00	:	45	5.	:	88	:	:	:	
Total deaths from Cholera	Female	01	1-	CN	CI	:	17	4	1	250			:	
Tota	Male	7	9	70	-	:	38	KO	1	49	-		:	:
шрек	Dece	:	:		8:	:	H.	:	:	1:	-		1	:
шрек	элоИ	-	1		:	:	:	:	:	-		-	:	1
per	Octol	1	1	;	:	9:	;	:	-:	28	:	:	:	
redme	Septe	:	:	:	1	>:	:	:	1	1 ::	:	. :		:
181	nIny	:	-	:	:	:	:	:	:	1:	:	:		:
3	Ying	:	***	B:	-	:	20	:	ā	10	:	1	-	:
8 1	lune	5	:	:	1	-:	1	:	8:1	4		:	***	:
- 3	Yak	:	:	CN	1	-	:	1	:	100	n :	:	0.65	
-	inqA	:	:	4	-		Ol	:		9		:		:
ų	Marc	-	10	1	:	:	1	00	:	10		:		1
A.ren.	Febr	:	:	:	-	:	64	:	:	C4	:			:
Tier	ıns t	00	9	:	1	:	34	9	:	909	:	:	:	
			:		:	:	-	:	1			-		
			:	:	:	:	:	:	v:		1		:	
District		:	:	:	:	:	:	. :	:	e State)*		1	1	10 mg
		Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tumkur	Total (Mysore State)*	Bangalore City	Mysore City	Kolar Gold Field	C. & M. Station

\* Excluding C. & M. Station, Bangalore.

TABLE 13.

Reported deaths from other Fevers in the Districts and Cities in each month of the year 1932. (As per Monthly Returns.)

	to ter of	MumN	883.66		637-23	834.08	617-38	531-37	768-24	564-74	582.25	197-64			-
	n Fevers	Total	8,683	5,108	8,815	2,916	5,289	8,107	8,997	4,982	37,842	355	398	501	719
	Total deaths from	Female	1,765	2,471	1.831	1,888	2,527	3,861	1,928	2,272	18,088	187	205	201	
	Total de	Male	1,918	2,632	1,984	1,588	2,762	4,246	2,074	2,660	19,809	168	198	800	
	прек	Decen	828	714	888	847	405	899	540	482	4,096	14	84	50	62
	шреъ	элоИ	281	567	768	297	444	956	449	480	3,841	22	99	4	7.9
	190	Octo	274	443	328	181	872	629	301	874	2,932	22	17	80	99
1.0	amper	Septe	296	350	262	207	403	571	849	382	2,778	22	32	47	99
MEDITES	181	nSny	258	347	122	176	422	564	280	831	2,500	22	93	44	53
		1m2	326	264	177	191	458	598	294	362	2,670	58	27	37	88
TATOLINII)		June	323	297	858	201	444	909	212	417	2,857	42	23	89	43
		May	814	333	351	224	441	630	263	421	2,987	27	28	34	48
o hor	1	April	834	505	274	205	479	618	227	483	3,072	34	26	47	44
CTT)	q	Marc	326	559	360	240	429	684	316	486	8,800	50	43	84	65
	Lagra	Eebr	279	300	869	265	421	592	246	358	2,830	98	88	38	88
	gr.A	nust	349	424	458	375	699	811	520	503	8,979	98	43	57	86
			:	:	:	:	:	:	:	:		:	***		:
			:	:	:	:	:	:	:			:	:	;	:
	District		:	:	:	:	:	:	1	:	re State)*		:	1	101
			Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tumkur	Total (Mysore State)*	Bangalore City	Mysore City	Kolar Gold Field	C. & M. Station

\* Excluding C. &. M. Station, Bangalore.

TABLE 14.

Reported deaths from Dysentery and Diarrhæa in the Districts and Cities in each month of the year 1932. (As per Monthly Returns.).

				Å							.190		, ter	er	Dysente	Dysentery and Diarrhosa	iarrhœa)	of deaths
District	42		January	Eebruary	March	liadA	May	2mue	Amp	1sugu <b>A</b>	Septemb	October	Novemb	Decemp	Male	Female	Total	1,00,000 of popu- lation
Bangalore	:	:	355	51	61	98	99	51	8	58	99	19	88	102	371	845	716	64.87
Chitaldrug	:	:	14	98	15	00	18	19	19	21	17	53	34	34	145	119	264	89.24
Hassan	:	:	10	9	00	-	17	14	1-	t-	24	16	25	20	96	99	156	26-05
Kadur	:	:	21	6	t-	10	50	6.	12	1-	13	9	7	78	85	43	125	85-75
	:	:	80	88	98	38	46	38	19	41	H	61	58	49	380	226	556	64-90
Mysore	:	:	105	73	28	85	88	78	111	130	130	126	124	123	675	553	1,228	80.49
Shimoga	:	:	550	13	25	3.1	88	81	35	22	18	24	88	75	205	179	384	73.83
Tumkur	/!	:	222	25	15	18	97	25	24	56	35	28	19	56	166	123	289	33-09
Total (Mysore State)*			277	241	210	233	303	2°5	839	812	870	847	888	488	2,064	1,654	8,718	57-21
Bangalore City		:	000	27	32	27	43	100	28	36	939	31	98	19	908	225	428	238-28
	:	:	53	16	16	12	18	16	88	24	88	19	22	22	113	136	249	225-80
& Kolar Gold Field	:	:	11	20	23	25	35	30	37	11	999	16	19	31	172	128	800	858-96
C. & M. Station	THE REAL PROPERTY.		14	19	12	21	27	84	45	69	25	80	50	800		:	384	245.80

\* Excluding C. & M. Station, Bangalore.

TABLE 15.

Reported Deaths from Respiratory Diseases in the Districts and Cities in each month of the year 1932. (As per Monthly Returns.)

				2	d ev	her m	TAT OTT OTT I		Troom	(								
Application City			_	-	-						прек	19	nber	rəqu	Total Respir	Total (Deaths from Respiratory Diseases)	from seases)	to 00
District		ennel	annat	Febru	March	lingA	May	oung	Amg	su8ny	Septe	Octob	полог	Десеп	Male	Female	Total	Numb Death 1,00,0
			_						-			- 00	3	-	000	1	700	00 400
Sangalore	:	1	011	109	90	117	115	96	117	100	107	150	146	158	699	715	1,384	125.88
Chitaldrug	:		37	50	19	27	11	00	18	13	35	13	65	27	149	100	249	87.29
Hassan	:	:	15	t-	6	1	=	7	10	10	6	00	63	9	48	82	98	13.86
Kadur	:	:	18	19	17	23	4	12	00	9	17	1~	17	200	109	99	175	20.02
Kolar	:		09	98	19	45	93	45	909	88	44	355	32	38	598	212	510	59-58
Mysore	:	-	48	34	43	24	02	52	20	44	4	56	98	41	282	226	909	38.80
Shimoga	:	-	98	938	21	56	12	50	1-	15	70	7	56	88	158	78	281	44-11
Tumkur	:	-	88	53	200	53	31	28	88	27	58	4	37	52	214	187	401	46-93
Total (Mysore State)*	1	1 ::	362	287	271	292	599	265	294	247	277	252	324	898	1,922	1,616	8,538	54.44
Bangalore City		:	98	88	70	100	86	96	101	87	68	96	119	128	619	604	1,158	641-91
Mysore City	:	-	11	10	6	9	7	2	10	6	1-	10	7	9	47	42	89	80-71
Kolar Gold Field	:	:	44	30	37	33	30	34	30	24	25	27	13	88	218	142	355	418.85
Civil and Military Station		-	19	- 58	11	10	20	10	15	14	t-	17	10	13	Solver I		158	116.04

\* Excluding Civil and Military Station, Bangalore.

TABLE 19.

Reported Deaths from Injuries in the Districts and Cities in each Month of the Year 1932.

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10 190	Numb	-	-	1	-	- 00	-	-	-	1		_		_
s from	Total	214	100	81	52	307	180	7.4	167	1,165	73	00	115	44
Total (Deaths from Injuries)	Female	28	43	84	17	117	42	55	18	490	27	00	24	:
Tota	Male	129	57	47	35	190	101	52	7.9	675	46	:	16	
дәqш	Decen	25	1-	C3	C91	22	18	8	16	100	6	1	10	44
radio	19VOF	15	4	00	1	84	17	4	-	06	Į-	:	10	C1
E	Octob	22	11	10	10	25	12	10	21	116	10	:	9	CI
mper	Septe	15	100	6	-	18	21	9	19	108	17	:	5	7
18	mSn <b>v</b>	10	13	00	1-	36	17	16	15	117	00	1	22	00
	Ame	1-	15	CH	*	24	18	20	16	86	-	1	7	병
	nung	13	77	5	13	20	15	4	18	97	00	:	9	4
	Мау	27	.00	00	00	25	16	63	t-	96	10	:	70	01
	firqA	28	9	oc.	1	31	10	Į~	10	96	9		-	70
Ţ	March	19	7	14	t-	21	14	4	11	94	9	-	10	4
Aam	Febru	21	11	7	:	355	11	00	16	104	12		25	C3
£а	snust	12	7	10	CH .	22	16	10	1	99	<u>-</u>	:	-	00
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		:	:	:	:	:	1	-	:	s State) *		:	1	Both III
	District	:	:	:	:	;	:	:	1	Total (Mysore State) *		:		Station
	NAPPER.	Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tumkur	T	Bangalore City	Mysore City	Kolar Gold Field	Civil and Military Station

\* Excluding Civil and Military Station, Bangalore.

TABLE 20.

Reported Deaths from Suicides in the Districts and Cities of the Mysore State in each Month of the Year 1932.

(As per Monthly Returns.)

	-	3	January	ry		Feby.		Ms	March		4	April	-	May	13	0	June	9		July		Ang	August		Sept	45	0	October	er	7	Novr.	.:	_	Decr.		F	Total	
District	9	Male	Female	IstoT	Male	Female	Total	Male	Total	əlsM	Female	IstoT	Male	Female	IstoT	Male	Female	Tetel	Male	Femsle	Total	Female	Total	Male	Female	Total	əlsM	Female	IstoT	əlaM	Female	Total	Male	Female	Total	Male	Female	Total
Bangalore	:	:	-	1	1			1	:	1 1	- 00	4	-	1	1		-	-	-	-	-71	-	CA	-	:	1	00	-	**	:	-:		- 20	-	9	12	11	28
Chitaldrug	:	-	;	Н	- 2	63	00	-		1 20	-	00	:	:	N:	:	:	:	:	63	CN	- :	1	61	:	01	-	-	63		-	1 1	1	-	63	00	6	17
Hassan	:	:	:	:	-	:	-	1	:	-	:	1	-	-	C1	-	-	-	:	:	-	+	:	4	1	4	:	-	-	C1	61	4	:	1	:	10	4	14
Kadur	:	-		-	-		-:	1		-	- :	:	:	:	:	Н	:	-	:		- :	:	:	61	•	01	01	:	C3	_ i.	-	:	-	-	:	1-	-	Į.
Kolar	:	_	ON	00	-	-	-	-		4	62	9	1	:	-	-	99	7	-	10	6 6	OI	4	-	1	63	00	03	0	:	1	-	1 5	-	. 9	17	24	41
Mysore	:	79	10	6	63	1	00	01		8 1	-	CN	C2	4	9	01	1	00		:	1 1	9	4	1	C1	65	80	1	00	-	63	00	C3		CN	61	233	45
Shimoga	:	-:-	-	-	CN :		CN .	.: C3		C9	:	:	1	:	-	1	:	-	:	OI.	; (N		:	:	-	:	1	:	1	:	-	:	-		1	00	00	11
Tumkur	:	-:	н	1	:	-	:	-	:		:	:	:	:	1			Ti	:		:	- 1	:	00	C)	5	00	_	4	п	00	4	60		9	10	10	98
Total (Mysore State).*		£~	10	17	10	5 1	10	-	6 10	6 0		16	9	10	11	9	10	11	200	10	138	9	10	14	10	19	16	9	22	4	6	13	8	15	23	98	68	175
Bangalore City		-		:								:	- :		:			:	:				:	:		:	:		:	-		:	1	:	-	-	:	-
Mysore City	:	-	:	:	İ	-	:	- 1	-		-	:	- :	:	-	i	-	:		:			:	:	1	:	:	- :	:	1	:	:	-	-	1	:	1	-
Kolal Gold Field	:	-	:	:	:	:		-	-		- !	-			:	:		:	:	:	-	-	1	:	1	:	:	1	:	:	:	:	-:	:	:	-	-	Co.
Civil and Military Station		:		:			-	-	-			:	Fi	90	nres	B	ot a	availa	la bl	ple.		-	:	:	1	:	:	:	:	;	:	:	-		-	:	:	:

\* Excluding Civil and Military Station, Bangalore.

TABLE 22.

Reported Deaths from Wounds or Accidents in the Districts and Cities of the Mysore State in each Month of the Year 1932. (As per Monthly Returns).

ar GIA													-
District	January	February	March	firqA	Мау	anne	Ang	tsu‰A	September	Осторек	Мочетьег	Десешрет	LetoT
Bangalore	10	070	17	19	58	12	5	9	п	15	14	19	111
Chitaldrug	00	80	63	60	9	CN CN	12	11	00	20	00	10	98
:	4	10	12	63	9	00	5	00	+	00	च	П	54
	:		9	1	1	12	:	10	(24	-	Н	-	53
	18	88	18	18	16	14	17	30	1	16	33	15	35
	29	10	9	20	9	1-	6	10	15	œ	12	12	200
	4	1	63	9	1	80	1	15	9	9	C1	00	150
	:	10	11	90	7	16	18	13	10	14	00	6	114
Total (Mysore State)*	44	83	7.8	62	99	69	69	98	63	00	72	65	821
Bangalore City	7	12	10	9	6	2	1	00	4	10	1	100	69
Mysore City	:	:	:	:	:	:	:	1	:	:	:	:	1
Kolar Gold Field	-	25	10	9	10	9	-	21	न्त्रा	10	10	10	1
Civil and Military Station				Fi	Figures not available	ailable							
The same of the sa													

\* Excluding C. & M. Station, Bangalore.

TABLE 23.

Reported Deaths from Injuries caused by Wild Beasts in the Districts and Cities of the Mysore State in each Month of the Year 1932. (As per Monthly Returns.)

Tangush	
September  September  October  October  September	
September September September September September September	
Tedoroto	
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lingA ; es ro : r- ∞ - ∞   ∞ ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Excluding C. & M. Station, Bangalore.
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Vrennact _ :	
District  Bangalore  Chitaldrug  Kadur  Mysore  Shimoga  Tumkur  Total (Mysore State)*  Bangalore City  Kolar Gold Field	OIVII suu manon y

TABLE 26.

Reported Deaths from all other Causes in the Districts and Cities of the Mysore State in each Month of the Year 1932.

(As per Monthly Returns.)

							-										
	District			January	Pebruary	March	firqA	Мау	- oung	Ang		September	October	Мочетьег	 Десешреь	Total Reported Deaths A. O. C.	Percentage of total Reported Deaths
Bangalore		:	:	268	461	491	465	477	439	548	524	587	486	909	704	6,356	44.10
Chitaldrug	:	:	:	569	278	182	214	556	156	500	234	258	898	589	599	2,875	29-75
Hassan	:	:	:	155	121	138	66	137	137	272	51	191	136	201	196	1,589	24-59
Kadur	:	:	:	135	158	127	116	114	93	120	136	118	187	136	162	1,531	28-44
Kolar	:		:	289	485	483	437	400	450	424	482	464	488	459	585	5,636	41.60
Mysore	:		:	809	449	468	450	481	450	525	463	819	628	777	155	6,478	10.38
Shimoga			:	368	170	376	225	210	193	214	176	506	321	928	477	3,212	38-64
Tumkur	:	-	:	898	408	405	331	283	271	282	271	271	821	822	412	8,940	38-81
T	Total (Mysore State)	e State)	1	2,958	2,517	2,665	2,296 2	2,281	2,219	2,376 9	2,277	2,558	2,780	3,166 8	8,530	31,617	35-86
Bangalore City	::		1	182	162	212	180	204	170	183	213	208	216	248	276	2,454	52 17
Mysore City	:	-:		150	126	182	127	133	112	138	119	134	164	174	145	1,654	80.89
Kolar Gold Field		:	:	116	96	96	78	66	8.1	108	104	100	26	06	130	1,192	45.93
Civil and Military Station	y Station	:	-				H	Figures not available	not av	silable.				-			
-																	

TABLE 27.

Alphabetical List of Taluks in Mysore State giving Statistics of Births and Deaths from different Diseases in the Vear 1932.

1	ed		28 28 28 28 28 28 28 28 28 28 28 28 28 2
	Repor	Death Rate	16.66 12.62 18.01 18.10 16.11 16.12 11.51 11.51 11.51 11.51 11.51 11.52 11.53
	Total Repor Deaths	Total Deaths	397 858 858 626 1,050 1,050 1,109 1,109 1,378 1,378 1,378 1,378 1,378 1,378 1,378 1,378 1,577 1,
		All other Causes	299 250 250 250 253 258 258 254 264 264 265 265 265 265 265 265 265 265 265 265
		Rabies	Complete Figures not available.
		Snake-bite	Figures not available.
		Killed by Wild	[u : : : : : : : : : : : : : : : : : : :
		Accidants	49258 : 8812285 : 812285 : 6122
		Drowning Drowning	
1	. 1		Figures not available.
	Deaths	Suicide	
	ea	Child-birth	Complete Figures not available.
		Leprosy	Complete Figures not available.
	Jo .	Consumption	Complete Figures not available.
	Causes	Respiratory Diseases	61112888 :: 88581 : 885
13.7	Can	Dysentery and Diarrhosa	84 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
L		Other Fevers	249 250 270 270 280 280 280 280 280 280 280 280 280 28
ear		DiodqyT	Figures not availab'e.
Ĭ,	FIELD	giralalf	Figures not available.
4		Cholera	: : : : : : : : : : : : : : : : : : : :
the	0 9 8	xoq-ilam8	616 :8: 8: 1 : 8: 8: 1 : 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8
II		Plange	20 1115 1115 129 129 129 129 141 141 142 143 144 144 144 144 144 144 144 144 144
seases	Fotal Reported Deaths of Infants under one year	Inslat Mortality State	185.06 95.57 76.42 97.70 84.88 67.82 187.00 187.00 180.13 100.13 116.88 66.44 116.88 66.44 116.88 67.41 116.88 67.41
or D	Total Re Death Infants one N one N one N		25 162 162 163 163 163 164 165 165 165 165 165 165 165 165 165 165
mere	orted	Birth Rate	16-16 10-21 10-21 11-47 11-47 11-47 19-22 18-11 16-19
3	Repo	Born Dead	Figures not available.
	Total Reported Births	Born Alive	385 1,695 1,1259 1,1445 1,445 1,656 1,568 1,688 1,846 1,846 1,899 1,846 1,979 1,100 1,100
	Estimated population as on July I, 1932		23,830 68,007 109,792 57,995 153,874 67,701 87,701
	The State of the S	Taluk, District	Alur (Sub) Hassan Aneka, Bangalore Arkalgud, Hassan Bagepalli, Kolar Bangalore, Bangalore Bowringpet, Kolar Challakere, Chitaldrug Channarajnagar Mysore Channapatna, Bangalore Channarajnagar Kolar Chikhallapur, Chitaldrug Chintamani, Kolar Chitaldrug, Chitaldrug Clospet, (Sub) Bangalore Davanagere, Chitaldrug
		No	122240000000000000000000000000000000000

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1,254 1,334 1,030 1,100
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75-52 91-26 98-26 98-26 98-26 98-26 110-24 110-
120 120 120 120 120 120 120 120
18.50 19.82 19.82 19.82 19.82 19.83 19.83 11.86 11
Figures not available.
2,582 2,462 2,462 2,462 1,114 1,114 1,115
84,072 18,887 82,468 19,468 104,217 58,472 76,938 76,938 76,938 76,938 76,938 76,938 77,909 92,458 117,898 117,898 117,898 117,898 1117,898 1117,898 77,607 77,607 77,607 77,607 77,607
drug sore
Dodballapur, Bangalore Goribidnur, Kolar Gudibanda (Sub) Kolar Gudibanda (Sub) Kolar Gundlupet, Mysore Harihar, (Sub) Chitaldrug Hassan, Hassan Heggaddevankote, Mysore Hiriyur, Chitaldrug Holalkere, do Holar, Kadur Kankanhalli, Bangalore Kadur, Kadur Koppa, Kadur Koppa, Kadur Koppa, Kadur Koragere, (Sub) Tumkur Kortagere, (Sub) Tumkur Kortagere, (Sub) Shimoga Kunigal, Tumkur Maddur, Mysore Malur, Kolar Maddur, Bangalore Malur, Kolar Mandya, Mysore Malushall, Kolar Mulgar, Mysore Mulbagal, Kolar Mysore, Mysore Nagarnangala, Myswe Nagar, Shimoga
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ported	Death Bate	20.90 13.45 14.68 11.77 10.96 11.77 10.96 11.79 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99
Total Reported Deaths	Total Deaths	878 1,066 690 695 645 1,022 1,162 1,266 1,036 1,306 1,306 1,306 1,311 1,311 1,311 1,311
18995	All other Causes	107 461 134 134 134 134 107 170 170 170 170 170 170 170 170 170
	Snake-bite Rabies	Figures not available. Complete Figures not available.
	beasts	
	Killed by Wild	040 : :001010100 : 4400 : 4444 :
	Wounds and Accidents	:48 :u :0u402 :\$0ccollect :
-	Drowning	Figures not available.
	Suicide	0104   000001   0000     100   100   100
ths	Child-birth	Complete Figures not available.
Des	Consumption	Complete Figures not available.
of	Diseases	Complete Figures not available.
ses	Respiratory	26 1 1 1 1 1 2 2 2 2 3 2 3 2 3 3 3 3 3 3 3
Causes of Deaths	Dysentery and Distrbæs	171 198 198 198 198 198 198 198 198 198 19
35.55	Other Fevers	178 642 642 642 642 643 643 643 643 643 643 643 643 643 643
	Typhoid	Figures not available.
	Malaria	Figures not available.
	Cholera	: : : : : : : : : : : : : : : : : : : :
100	Small-pox	:42 2 2 2 2 2 2 2 2 3 2 5 5 5 5 5 5 5 5 5
-	Plague	224 224 224 224 225 224 226 226 226 227 227 227 227 227 227 227
otal Reported Deaths of infants under one year	Infant Morta- lity Rate	117.99 1005.46 115.92 106.83 106.83 106.83 83.79 83.79 83.79 83.79 84.62 84.62 84.62 84.62 84.62 84.63 84 84 84 84 84 84 84 84 84 84 84 84 84
Total R Deat infant one	lo redmuX sdresb tustai	201 100 100 100 100 100 100 100 100 100
Total Reported Births	Birth Kate	22.186 117.186 117.186 117.286 117.286 117.286 117.286 117.286 117.286 117.286 117.286 117.286 117.286 117.286 117.286 118.386
otal Repo	Born Dead	Figures not available.
Total	вуйА плоЯ	889 1,684 1,612 1,262 1,265 1,265 1,265 1,264 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,130 1,264 1,226 1,130 1,264 1,
Estimated population as on July 1, 1982		17,846 73,743 45,691 54,799 101,900 <b>56</b> ,055 87,958 61,602 101,420 58,956 71,364 71,364 71,364 71,364 71,364 71,364 71,035 104,540 104,540 104,536 94,216 88,099
	Taluk, District	Narasimharajpur, Kadur Nelamangala, Bangalore Pavagada, Tumkur Periyapatna, Mysore Sagar, Shimoga Shimoga Shimoga Shimoga Shimoga Sidlaghatta, Kolar Sira, Tumkur Sorab, Shimoga Srinivaspur, Kolar Srinivaspur, Kolar Triptur, Tumkur Tiptur, Tumkur Tirthanalli, Shimoga Tr.Narasipur, Mysore Tumkur, Tumkur Tumkur, Tumkur Tumkur, Tumkur Tumkur, Tumkur Tumkur, Tumkur
4	No.	83222222222222222222222222222222222222

TABLE 28.

Alphabetical list of Municipalities in Mysore State giving statistics of Births and Deaths from different diseases, in the Year 1932

17.20 22.55 18.48 16.79 9.48 9.48 2.56 Total Repor-ted Deaths Death Rate : : : [atoT 24 24 36 37 9 4 4 2454 Causes : : : : All other . sldaliava Figures not Rabies Snake-bite : : Accidents
Killed by Wild
Beasts 1 1 1 : :69 : bna sbnuoW la bl Figures not available. Drowning Suicide Caeses of Death Child-birth og Leprosy Do Consumption eldaliava ton serugid Diseases not :10110-: : : Respiratory Dysentery and Diarrhœa 00000001-: : : : : 084488 : : : : Other Fevers Do Typhoid Figures not available Malaria Cholera :00 : : : : : : # Small-pox : : : := 17: 16: Plague 23.503 22.573 22.573 117.73 118.61 24.16 34.56 4.16 38.50 1 : : Total Reported Births Birth Rate Pigures not available. Born Dead 75 65 150 123 123 13 13 13 13 Born Alive 3,450 3,255 3,278 6,307 4,908 6,611 2,228 3,127 79,620 11: Estimated Population as on July I, 1932 : : Bangalore, Bangalore Arsikere, do Bagepalli (Sub) Kolar Hassan, Hassan Taluk and District Yelandur, Mysore Tarikere, Kadur Hassan, Hassan Anekal, Bangalore Arkalgud, Hassan Arsikere, do Mavalli, Lai-Bagh, Kalasipalyam and Shankarpuram. Nagarthpet .... Visweswarapuram, 111111 Raifway Quarters Manavarthepet Palace and Gutta-Balepet including and Mill Area. High Grounds Municipality City or Town) Nagarthpet Ajampur Alur Ulscorpet Banavar Bangalore City Anekal Arkalgud Bagepalli Arsikere H. 100400100100 No.

TABLE 28-contd.

Total Repor- ted Deaths	Death Rate	:	;				2.56 21.00 24.71 15.43 11.74 25.60 7.25 10.17 10.16 6.64 17.85
Total ted D	IstoT	:	:		:	:	84.8 84.8 84.8 850.8 8 800.8 8 800.8 800.8 800.8 800.8 800.8 800.8 800.8 800.8 800.8
	All other Causes	:	:		1	:	2887 38 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	Rabies				. !		Figures not available.
1	Snake-bite		:	- :	:		-000
	Killed by wild Beasts	1		:	:	:	
-	Accidents	-	:	:	:	:	: : : : : : : : : : : : : : : : : : :
	bas shanoW	-				-	
50	Drowning	- :		-	:	1 1	Figures not available.
att	Child-birth Suicide	-	-	•	: 1	1 1	Do Do
Ă	Teprosy				i	:	Do
of	Consumption					: 1	Figures not available.
Causes of Deaths	Respiratory Diseases	:	-		:	:	:400 H 20 E 10 H 4 : : : 00
Cas	Diarrhoea	1	:		1		12100 :400010 : 201
	Other Fevers Dysentery and	-		1	:		
		-		- '	- !		
	biodqyT			-	!	:	Do
	Cholera	:	-		: 1	: 1	Figures not available.
	Small-pox	-	-	:		:	::::::::::::::::::::::::::::::::::::::
				•		-	
	Plague	-	:		- 1		11224 14 122 1184
Total Reported Births	Birth Kate		:			:	4.16 17.99 20.13 19.81 19.81 19.82 29.25 29.25 29.65 29.65 29.68 28.65 29.68 29.68 29.69 28.65 29.08
H.B.	Born Dead				1	: 1	Figures not available.
Total	Born Alive	:		:		:	13 66 181 181 181 217 210 101 270 285 134 134
noitsin 289	Estimated Population as on July 1, 1932		:		:	:	3,127 4,001 3,278 5,109 6,405 3,846 9,538 8,739 18,858 3,478 11,508
	Taluk and District	:				:	Hassan, Hassan T. Narsipur, Mysore Belur, Hassan Shimoga, Shimoga Kadur, Kadur Bowringpet, Kolar Chellakere, Chitaldrug Chamarajnagar, Mysore Channagari, Shimoga Channagarina, Bangalore Channarayapatna, Hassan. Chikballapur, Kolar Chikballapur, Kolar Tumkur.
	Municipality (City or Town)	VII. Fort and Chama-	VIII. Basavangudi, Ga- vipur and Gutta-	IX. Malleswaram, Seshadripuram	and Srirampuram. E. D. Hospital	Total	Bannur Belakavadi Belur Belur Bhadravathi Birur Ghallakere Challakere Channarajnagar Channagari Channapatna Chikballapur Chikballapur Chikballapur Chikballapur Chikballapur Chikballapur Chikballapur Chikballapur
1	No.						23 20 20 20 20 20 20 20 20 20 20 20 20 20

7.428 10.04 10.05 11.52 11.52 14.26 6.08 6.08 6.05s 16.01	813 1758 1758 1892 2890 2816 2816 1753 1753 1753 1753 1753 1753 1753 1753
117 191 66 475 62 102 102 483 659 659 659 659 659 659 659 659 659 659	121 181 181 182 85 92 92 92 92 92 93 93 94 95 95 95 95 95 95 95 95 95 95 95 95 95
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25.93 13.64 19.05 19.05 19.05 25.55 25.55 26.13 26.13 14.06	18 30 27 88 86 48 80 28 86 88 86 89 80 80 80 80 80 80 80 80 80 80 80 80 80
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4,968 214 10,732 386 6,571 89 6,162 93 8,853 233 8,016 68 4,606 188 5,663 124 2,803 97 5,759 81	2,459 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,368 1,707 1,208 1,707 1,382
4,968 214 10,732 386 6,571 89 6,162 93 8,853 233 8,016 68 4,606 188 5,663 124 2,803 97 5,759 81	2,459 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,368 1,707 1,208 1,707 1,382
4,968 214 10,732 386 6,571 89 6,162 93 8,853 233 8,016 68 4,606 188 5,663 124 2,803 97 5,759 81	2,459 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,368 1,707 1,208 1,707 1,382
4,968 214 10,732 386 6,571 89 6,162 93 8,853 233 8,016 68 4,606 188 5,663 124 2,803 97 5,759 81	2,459 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,368 1,707 1,208 1,707 1,382
4,968 214 10,732 386 6,571 89 6,162 93 8,853 233 8,016 68 4,606 188 5,663 124 2,803 97 5,759 81	a, Mysore 2,459 45  assan 10,544 299  assan 1,250 61  ankote, 1,250 61  do 3,243 118  do 8,238 118  angalore 3,968 151  chitaldrug 3,512 124  angalore 4,960 105  sysore 6,777 98  intaldrug 3,822 58  li, Bangalore 7,208 106  660  660  660  660  660  137
4,968 214 10,732 386 6,571 89 6,162 93 8,853 233 8,016 68 4,606 188 5,663 124 2,803 97 5,759 81	a, Mysore 2,459 45  assan 10,544 299  assan 1,250 61  ankote, 1,250 61  do 3,243 118  do 8,238 118  angalore 3,968 151  chitaldrug 3,512 124  angalore 4,960 105  sysore 6,777 98  intaldrug 3,822 58  li, Bangalore 7,208 106  660  660  660  660  660  137
4,968 214 10,732 386 6,571 89 6,162 93 8,853 233 8,016 68 4,606 188 5,663 124 2,803 97 5,759 81	a, Mysore 2,459 45  assan 10,544 299  assan 1,250 61  ankote, 1,250 61  do 3,243 118  do 8,238 118  angalore 3,968 151  chitaldrug 3,512 124  angalore 4,960 105  sysore 6,777 98  intaldrug 3,822 58  li, Bangalore 7,208 106  660  660  660  660  660  137
4,968 214 10,732 386 6,571 89 6,162 93 8,853 233 8,016 68 4,606 188 5,663 124 2,803 97 5,759 81	a, Mysore 2,459 45  assan 10,544 299  assan 1,250 61  ankote, 1,250 61  do 3,243 118  do 8,238 118  angalore 3,968 151  chitaldrug 3,512 124  angalore 4,960 105  sysore 6,777 98  intaldrug 3,822 58  li, Bangalore 7,208 106  660  660  660  660  660  137
Chintamani, Kolar 4,958 214 Chitaldrug, Chitaldrug. 10732 386 Closepet, Bangalore 6,571 89 Davangere, Chitaldrug. 23,155 441 Devanhalli, Bangalore 6,152 93 Dodballapur, do 8,853 233 Seringapatam, Mysore 4,606 188 Gorbidnur, Kolar 6,663 124 Gubbi, Tumkur 5,663 124 Gudibanda, (Sub) Kolar 2,803 97 Gundlupet, Mysore 5,759 81	Periyapatna, Mysore 2,459 45 Harihar (Sub) Chitaldrug 6,884 192 Hassan, Hassan 1,250 61 Mysore, do 1,250 61 Hiriyur, Chitaldrug 2,748 65 Holenarsipur, Hassan 8,243 118 iille Hosdurga, Chitaldrug 3,968 151 44 Hosdurga, Chitaldrug 4,960 105 55 Hunsur, Mysore 4,960 105 55 Kadur, Kadur 8,769 Kalar, Kolar 8,769 Kalar 660 Kolar, Kolar 660 665
4,968 214 10,732 386 6,671 89 6,162 93 8,853 233 8,016 68 4,696 188 5,663 124 2,803 97 5,759 81	Periyapatna, Mysore   2,459   45   192   Hassan, Hassan   1,250   61   64   64   64   65   64   65   64   65   64   65   64   65   64   65   65
Chintamani, Kolar 4,958 214 Chitaldrug, Chitaldrug. 10732 386 Closepet, Bangalore 6,571 89 Davangere, Chitaldrug. 23,155 441 Devanhalli, Bangalore 6,152 93 Dodballapur, do 8,853 233 Seringapatam, Mysore 4,606 188 Gorbidnur, Kolar 6,663 124 Gubbi, Tumkur 5,663 124 Gudibanda, (Sub) Kolar 2,803 97 Gundlupet, Mysore 5,759 81	Periyapatna, Mysore   2,459   45   192
Chintamani, Kolar 4,968 214 Chintaldrug, Chitaldrug. 10,732 386 Closepet, Bangalore 6,571 89 Davangere, Chitaldrug. 23,155 441 Devanhalli, Bangalore 6,162 93 Seringapatam, Mysore 8,853 233 Goribidnur, Kolar 5,663 124 Gundlipert, Mysore 5,663 124 Gundlipert, Mysore 5,759 81	Periyapatna, Mysore   2,459   45   192
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TABLE 28-concld.

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	Killed by wild Beasts	
	Wounds and Accidents	Figures not available.
th	Child-birth Suicide	Figures not available.
Causes of death	Consumption	Pigures not available.
nses	Respiratory Diseases	
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3	Typhoid Other Fevers	Figures not available.
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	Small pox Cholera	10 181 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	Taluk and District	Arkalgud, Hassan Koppa, Kadar Koratagere (Sub) Tumkur Krishnarajpete, Mysore. Kumigal, Tumkur Madduur, Mysore Madhugiri, Tumkur Magadi, Bangalore Malvalli, Mysore Malvalli, Mysore Malvalli, Mysore Malvalli, Mysore Yedatore, Mysore Molakalmuru, Chi. Mulbagal, Kolar TNarasipur, Mysore Mulbagal, Kolar  Mulbagal, Kolar
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TABLE 29.

Alphabetical list of places affected with Plague in Mysore State in the Year 1932. (Attacks and Deaths given for each Month.)

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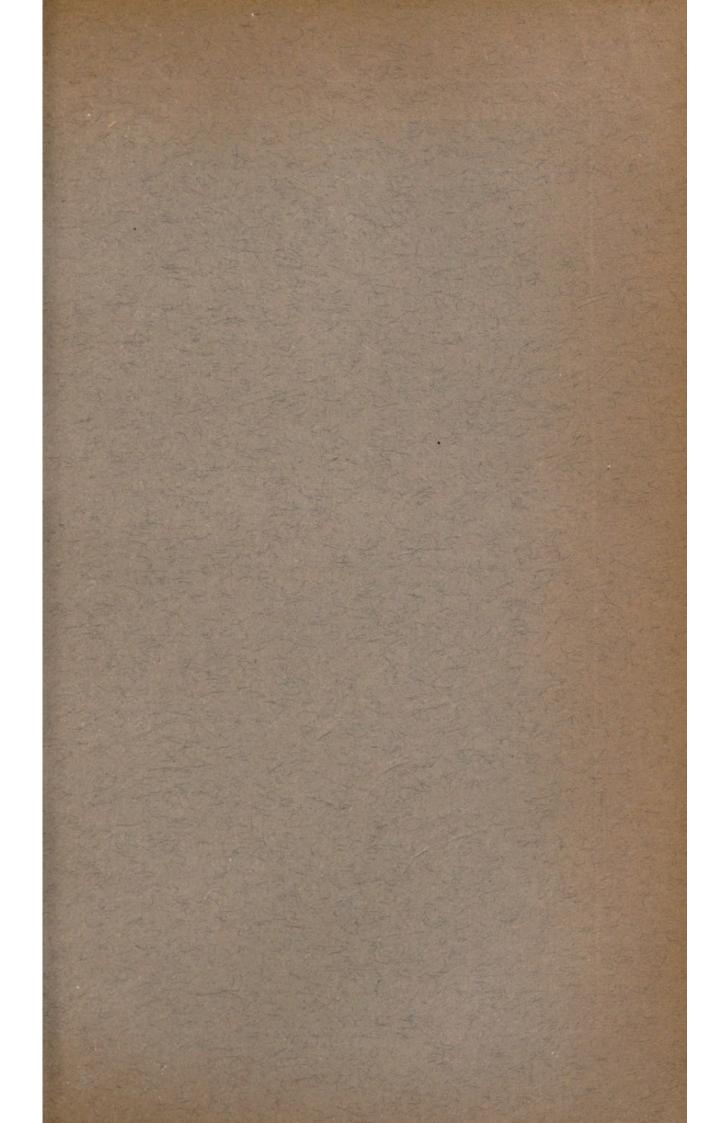
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Alphabetical list of places affected with Cholera in Mysore State in the Year 1932. (Attacks and Deaths given for each Month.)

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## MYSORE STATE DEPARTMENT OF HEALTH.

## The following Bulletins are published by Government.

No. 1. Report on a Health Survey of Mysore-

By Dr. W. C. Sweet, B.Sc., M.D., Dr. P.H., Field Director, International Health Division, Rockefeller Foundation, Consultant in Health in Mysore, Bangalore, 1928.

2. Report on Tuberculosis in Mysore State-

By Dr. P. S. Chandrasekhar, M.D., some time Officer-in-charge of Tuberculosis Survey in Mysore, 1928.

No. 3. Report on a Sanitary Survey of the City of Bangalore for the Year 1927—

By Dr. B. Mahomed Usmon, L.M.S., (Retired), Senior Surgeon and Sanitary Commissioner with the Government of Mysore, Bangalore, 1928.

No. 4. Guinea-worm Disease in the State-

By Dr. J. V. Karve, M.B., Ch.B., D.P.H., Director of Health in Mysore, Bangalore, 1929.

- No. 5. Report of the Delegation of the British Social Hygiene Council, (Inc.) to the Government of Mysore, 1929.
- No. 6. Report on the Present Status of Birth, Death and Epidemic Diseases Reports in Mysore District, Bangalore City and Kolar Gold Field, with Suggestions for Improvement—

By Mr. E. R. Sundararajan, M.A., (Hons.), Technical Officer, Bureau of Vital Statistics, Mysore Department of Health, Bangalore, 1929.

No. 7. A Survey of Mysore State for Enlarged Spleens and for Hookworm and other Helminthic Infections—

By Dr. W. C. Sweet, B.Sc., M.D., Dr. P.H., Field Director, International Health Division, Rockefeller Foundation, Consultant in Health in Mysore, Bangalore, 1929.

No. 8. Physicians' Pocket Reference to the International List of Causes of Death, 1932.