

- (1) பக்கங்களின் எண்ணிக்கை 11-11
- (2) புதுக்கேத் திருப்பிய நாள்
- (3) ஆதரவ் குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

 தலை

அரசாணை எண். <u>18</u>	அச்சதம்
மு. கோப்புத் தாள் எண்.	பலவகை
நாள் : <u>12-1-1899</u>	<u>1899</u>

மதுரைத் தாள்-படி கையாள் கோ. கா. 1899

ஆவண. கா. 1-18,006-6990

ORDINARY, MS.

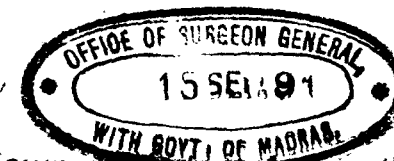
<i>Public</i> DEPARTMENT.	
G.O., DATED	<i>12-1-92</i>
No.	<i>18</i>

INDEXED.

When given for copying 12/1

[Despatch Abstract.]

*Regarding the adoption
of the proposed 1909 Census
in the United States*



Statement of Deaths from Principal Diseases in the Town of Madras during the week ending 4th on September 1891.

Year.	Week ending	CHOLERA.		Small-pox.	Fevers.	Bowel-complaints.	All other diseases.	Total.	Total population according to the Census of 1881.	Ratio per 1,000 of population per annum.
		Sporadic.	Epidemic.							
1891	4 th September		244	1	188	282	315	1030	405848	131.9

Statement of Deaths from Principal Diseases in the Town of Madras during the corresponding weeks of previous five years.

Years.	Week ending	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	All other diseases.	Total.	Total population according to the Census of 1881.	Ratio per 1,000 of population per annum.
1886	10 th September	"	"	68	50	149	267		34.2
1887	9 th	10	"	89	69	174	342		43.8
1888	7 th	12	1	43	57	172	285		36.5
1889	6 th	4	"	95	67	155	321		41.1
1890	5 th	51	3	136	126	221	537		68.8
Mean number of last five years		15.4	0.8	86.2	73.8	174.2	350.4		44.8

The Medical Board is of opinion that cholera was — epidemic during the week ending 4th September 1891.

This opinion is based on the following grounds:— (*Given in the last weekly statement*)

* The total under "Fevers" includes 6 deaths from Measles.
Note—calculated on the census of 1891 the death rate is 120.5.

207 888 20 30 17/1/09

1. Whether the disease shows a tendency to increase or diminish;
2. How far this may be attributed to seasonal variations or other causes;
3. Whether the disease is confined to any particular quarter of the town or to any particular class of the population, and whether these are in any direct local connection with the shipping and port;
4. Whether the disease shows general epidemic tendency to attack all classes alike.

(1) It increased at the end of the week.
(2) (Wednesday, Thursday, Friday)
(3) Increased due to the rain on Sunday night.
(4) Scattered over the town.
(5) It specially attacks the lower classes
Hindus, Mohammedans, Native Christians
& East Indians
Europeans & Brahmuns generally escape.

Mauras
Dated 8th September 1899.

W. Mitchell ~~Brigade~~ Surgeon, Major
Senior Medical Officer,
General Hospital,
President of the Medical Board.

R. E. Ellis. V.P.P. M.D. &c. M. M. L.

H. J. L. ~~Surgeon~~ ^{Members of the}
Medical Board.

J. M. R. Health Officer
m/m

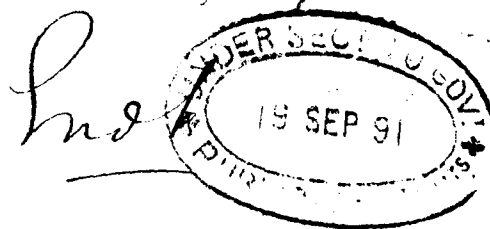
25/9
1899
Ling

Pub

20/4/91 R No 388 Pub

2734

No. 9129



Forwarded to
The Chief Secy/Dept
Pub Department.

W. H. S. Subeekand

Superintendent
with Govt of Madras

Obtained 19 Sept 91

H.M.

Hodgkiss

F.D.B.

21/9

WITH ORDER

Statement of Deaths from Principal Diseases in the Town of Madras during the week ending 11th on September 1891.

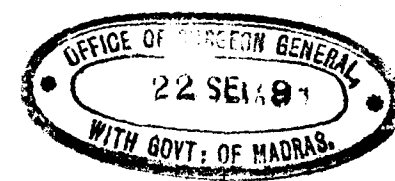
Year.	Week ending	CHOLERA.		Small-pox.	Fever.	Bowel-complaints.	All other diseases.	Total.	Total population according to the Census of 1881.	Ratio per 1,000 of population per annum.
		Sporadic.	Epidemic.							
1891	11 th Sept.					24	242	262	998	127.8

Statement of Deaths from Principal Diseases in the Town of Madras during the corresponding weeks of previous five years.

Years.	Week ending	Cholera.	Small-pox.	Fever.	Bowel-complaints.	All other diseases.	Total.	Total population according to the Census of 1881.	Ratio per 1,000 of population per annum.
1886	17 th Sept.	.	.	91	56	170	318	998	40.3
1887	16 th	18	2	92	60	192	370	998	47.4
1888	14 th	5	.	56	40	126	232	998	29.7
1889	13 th	9	.	84	74	152	319	998	40.8
1890	12 th	36	1	135	121	219	512	998	62.6
Mean number of last five years		15.6	0.6	90.8	67.5	177.5	349.6	998	44.7

The Medical Board is of opinion that cholera was epidemic during the week ending 11th September 1891.

This opinion is based on the following grounds:—(Stated in previous statement.)



*The total under 'Fever' includes 8 deaths from Malaria.
Note - Calculated on the Census of 1891 the death rate is 116.8

1. Whether the disease shows a tendency to increase or diminish;
2. How far this may be attributed to causes;
3. Whether the disease is confined to any particular quarter of the town or to any particular class of the population, and whether these are in any direct local connection with the shipping and port;
4. Whether the disease shows general epidemic tendency to attack all classes alike.

I It has kept about

the same.

II There has been no appreciable rainfall to cause an increase.

III The largest number of cases occurred in the 1st District.

IV No cases among Europeans & very few amongst Brahmans.

J.M.

Mogor as
Dated 15th Apr. 1891.

[Signature]

Surgeon-Major,

Senior Medical Officer,

General Hospital,

President of the Medical Board.

[Signature] R. P. P. D. C. M. M. C.

[Signature]
Members of the
Medical Board.

[Signature] Health Officer
[Signature]

6956

2001

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Public

2799

No 9/1877

Post

Forwarded to the
Chief Secy to Government
Public Department

W. H. S. Subrahmanya
Surpr General
with C. P. V. Madras

Collected 20 Sept 1891

CHIEF SECRETARY
26 SEP 91
GOVERNMENT OF MADRAS

Send on to my. I am
asking why they stick
to the 81 census.

W. H. S.

H. No. 1440

Public Dept

Current 2734.

With refce to the
H. H. remark attent
-ion is invited to f. o. d.
1.4.91, No. 246, Rev: & f. o.
d/20.4.91, No. 388, Pub:
thereon. The figures
were published in the
newspapers but appar
-ently not in the Gazette.
The pop: of Madras is
shown to be 449,946
against 405,848 in
1881. This would con
-siderably reduce the
percentage of deaths.

a subsequent return
-current 2799 - is sub
-mitted.

30 B.
-2579

OFFICE OF SURGEON-GENERAL

WITH THE GOVERNMENT OF MADRAS,

Madras, 26th October 1891.
Fort St. George,

No. 607

From

THE SURGEON-GENERAL WITH THE
GOVERNMENT OF MADRAS,

Fort St. George,

To

THE

Chief Secretary to Government
Public Department.

SIR,

Adverting to your Reference on
C N^o 2734 and 2799 dated the 13th October 1891
I have the honor to state for the information
of Government that the calculations in the
weekly statements of deaths have hitherto
been based on the Census of 1881 to admit
of a comparison being made with the previous
five years statistics.

2. The death rate for each week calculated
on the census of 1891 has lately been shown
in a footnote on page 1 of the statement.
3. In future however the present practice
will be discontinued and the first part of
the weekly mortality statement will be worked
out according to the population of 1891 but
I request instructions as to how Government
would wish the second part of the statement
referring to the previous five years statistics
to be dealt with, seeing that for the purposes

By 13 October 1891

Re: Surgeon General's
Endorsements Nos 9/129,
20/150, d/ 19th & 24th
Sep: 91, respectively.

The Surgeon Genl:
is requested to report
why the population ac-
cording to the Census of
1881 is still used for cal-
culations in the weekly
mortality statements.
The population of the city
according to this year's
census was made public
some months ago - it was
449,946. / From orders /

The Surgeon Genl.
13 OCT 91
IN H.S.

of comparison all figures should be calculated according to the same basis.

I have the honor to be
Sir

your most Obedt. Servant

[Signature]
Surpr. Genl. *[Signature]*
Govt. of the
Almadras

10.

Public (1891) DEPARTMENT

From

THE SURGEON GENERAL WITH THE

GOVERNMENT OF MADRAS,
Madras
Fort St. George.

No. 607

Dated

26th October 1891.

Reed.

No.



Subject.

Submitting of planation
as to why the week by state
ments of deaths numbers
hitherto have been based on the
Census of 1881.

Public Health
Department
Madras
time the Census
were done
J.E.R.
19/10

Chubb
Ref

7/12 November 1891

With refce to para: 3

the Surg. Genl. is re-
quested to report what
system was followed
at the time that the
figures of the 1881 Census
were adopted.

30/10
4/1

5/11

Surgeon Genl with Lytle

1891/91
IN M.S.

H. No. 1440

Municipal Office,

HEALTH DEPARTMENT,

Madras, 1 December 1891.

From

J. F. H. Esq.,
Health Officer,

Madras Municipality.

To

The President,

Board of Health, Madras.

Sir,

Enclosures.
returned

With reference to your Memo. No. 393
dated 4th December 1891, I have the honor to
report that the population of Madras has
increased by 46,670 in the last decade.
The average annual increase may,
therefore, be taken as 4,667. From this the
population for the years intervening between
1881 & 1891, can be calculated approximately
by a simple arithmetical progression,
as shown in the accompanying statement,
which I have filled in for the year 1892.
I have taken the Census figures of 1891 as my
basis & added $\frac{1}{2}$ of the average annual
increase to obtain an estimate of the mean
population for that year, then added the
average annual increase to obtain the
estimated population of 1892, & subtr
times to ob

the estimated mean popu-
 1890, 1889, 1888 & 1887. At the com-
 of each new year, as it comes, I would
 add the same average annu-
 till another decade is complete
 Census figures are returned & new
 ferred, the annual average. Or, if pre-
 might be calculated on the increase
 which have been taken in the three censuses
 which would give a lower Madras
 increase of 1.15 per cent where figure, the
 place in the last decade has taken
 compared with the ratio of 1.5 per cent
 given in the last Census. I
 have proposed this method of report. I
 an approximately correct of obtaining
 on account of its simplicity & the ease
 with which it can be carried out: also
 because I consider it sufficient: also
 for a City like Madras where accurate
 considerable fluctuations & shows
 But if it is thought desirable the rates
 correct but complicated the more
 in the Registrar General's System used
 be adopted. It would then be worked
 out as follows:-

Take X as the Census population

& Y

of Madras in 1887
 1891

Then

Then the rate
 and that of a decennial increase is $\frac{4}{x}$,
 of four men annual increase $\sqrt[4]{\frac{4}{x}}$, and that
 to the end of 1890 (from the end of February
 Hence $\log. Y - \log. X = \log. \text{ratio of decennial increase}$
 and $\frac{\log. Y - \log. X}{10 \times 3} = \log. \text{ratio of annual increase}$
 Thus as the $\log. X = 18.51$ at the end of
 February & the mean population of the year
 should be taken the mean population of the year
 of the estimation at the end of June the $\log. X$ within
 of 1891 is $\log. Y$ population in the middle
 In the middle $\frac{\log. Y - \log. X}{10 \times 3}$

of 1892, it would be $\log. Y + \frac{\log. Y - \log. X}{10 \times 3}$
 $+ \frac{\log. Y - \log. X}{10}$

1893, " " $\log. Y + \frac{\log. Y - \log. X}{10 \times 3}$
 $+ 2 \frac{\log. Y - \log. X}{10}$

"I would
 to modify the not recommend any attempt
 the proportion of estimated population from
 rates, as a general rule, but after a year of
 famine or exceptional heavy mortality
 to omit the other cause, it might be advisable
 year.

I have the honor to be,
 Sir,
 Your most obedient
 J. Field Cook.

No 422. Memo

Has the honor to forward
this letter No ¹⁴⁴⁰/_{12.12.91} from the
Health Officer Madras
with four enclosures for
the information of the
Surgeon General.

13.12.91.

W. Price M.D.
Senior Med. Officer.

No 9137

OFFICE OF SURGEON-GENERAL
WITH THE GOVERNMENT OF MADRAS,
Madras 22nd Dec 1891.
Fort St. George,

No. 754

From

THE SURGEON-GENERAL WITH THE
GOVERNMENT OF MADRAS,

Fort St. George

To

THE

Chief Secretary to Government
Public Department

SIR,

Adverting to your Reference on
C No 3144 dated the 12th November 1891, I
have the honor to state that there are no
records in this Office to show what system
was followed in the preparation of the
weekly Health Returns when the figures
of the 1881 Census were adopted. The
President Board of Health is also unable
to afford any information on the subject.
2. The Health Officer Madras Municipality
to whom a reference was made states that
the figures of the Census of 1881, were used
for calculating the ratios of the correspond-
ing weeks for the five years preceding 1883,
and that the same figures have been used
in all the calculations up to the present year.
3. He however suggests the adoption of
a modern system of calculating the ratios
for vital statistics which will no doubt
afford

afford more reliable Returns. His
letter is enclosed for the information of
Government. I approve of the arithmetical
plan as being sufficiently accurate, and
much simpler than that by logarithms and
recommend that the Board of Health
may be directed to adopt this system in
the preparation of their weekly Returns
in future.

I have the honor to be
Sir
Your most Obedt. Servant.

W. H. S. Subeck Esq.

Surgeon General with the
Govt. of Madras.

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Public (1891) DEPARTMENT

From

THE SURGEON GENERAL WITH THE
GOVERNMENT OF MADRAS,
Madras
Fort St. George.

No.

Dated

Recd.

22nd December 1891.

CHIEF SECRETARY
29 DEC 91
GOVERNMENT - Madras

Encls.

Subject.

Stating that there is
nothing to show in the
records of this Office that
system was followed in the
preparation of the weekly
Returns when the figures
of the 1881 Census were as

Steel.

For orders. The increase
nearly 6000 in habitants
per annum during
the last decade shows, it
is submitted, the necessity
for some change in the
existing practice if even
approximately correct
returns are required.

J.B.B.

4/1/92.

Order 12 Jan 92 No 18.

There is no necessity for the purpose
of this return to make any change
of the figures for the entire year
[but] the census of 1891 should
for 1891, subsequent years this change
is superseded by another.

W.S.

8 Jan

1/ From orders

J.B.B.

9.1.92.

DESPATCHED

15 JAN 92

To Shadburg. Genl.

Copied 14/1

c.6/1

WITH ORDER

3/1/92
The Court of India in its Home
Sept 11, 1891 No 127 of 1891 May 1892
embodied in the No 241 of 27 May
1892 prescribed a form for adoption
in the submission of local returns
maintained in the Presidency
The 1st report according to this form
is recorded in G.O. No 578 of 20
July 87 - This and subsequent
reports up to the present have been
submitted in 1892 did not follow the
prescribed form - showing the
inadequacy of the Census
of 81. But this item appears
in the first time in the 1892