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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	<i>1707-B</i>	Press
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1709-B
1

GOVERNMENT OF MADRAS.
REVENUE DEPARTMENT.

12th May 1877, No. 1,709-B.

Famine Relief.

Read the following paper :—

No. 258-C. From C. E. BUCKLAND, Esq., C.S., Private Secretary to Sir Richard Temple, to J. H. GARSTIN, Esq., Additional Secretary to the Government of Madras, dated Bombay, 28th April 1877, No. 218.

I AM directed by Sir Richard Temple to forward the papers named in the margin on the subject of the imports of grain into the Presidency of Madras and its transport by the Madras Railway.

1. Minute by Sir Richard Temple, dated Bombay, 28th April 1877.
 2. Memorandum by Captain Bisset, R.E., of the imports of grain into the Presidency of Madras by sea and land.
 3. Memorandum by Captain Bisset, R.E., on the movements of grain by the Madras Railway from August 1876 to March 1877.
2. In consideration of the interest attaching to the subject, the statistical tables contained in these memoranda have been placed at the disposal of the Press for the information of the mercantile world.

ENCLOSURE No. 1.

Minute by Sir Richard Temple, dated Bombay, 28th April 1877.

LATER information makes it desirable to state finally the statistics of the imports of food grains into the Presidency of Madras. Since the commencement of the scarcity of 1876-77 copies of certain notes and memoranda by Captain Bisset are forwarded.

2. It was assumed originally on the published data of the Madras Board of Revenue that the imports before the month of November were although inconsiderable. The despatches of grain by rail from Madras were, however, during the months of August, September, and October so much in excess of the total imports thus shown that it was doubted whether the Board's statements were complete. And, on further inquiry, it was ascertained that the 5,637 tons shown as imported during August, September, and October, far beyond the Presidency, were supplemented by an import amounting to 38,000 tons from ports shown by the Madras Board of Revenue as "subordinate ports."

3. Thus, before November, the month previously recognized by me as the beginning of heavy imports, there were delivered into Madras a total of 44,000 tons of food grains. Some corrections have been made in the returns for the month of November onwards, the estimated imports for March having been very much exceeded. The actuals both at Madras and at the minor ports on the East and West Coasts, and the whole supply taken by the Presidency has to be stated at 535,000 tons.

4. The following is the abstract of importations in the Presidency of Madras :—

	TONS.
By sea from Bengal, Burma, Orissa, and Ganjam to Madras	356,000
and other East Coast ports	118,000
To Beypore	61,000
By the G.I.P. Railway	...
Grand Total	535,000

5. The following is an abstract of the quantities of grain which were carried away by rail from Madras into the interior:—

	TONS.
To Chingleput District	514
„ North Arcot District	22,316
„ Mysore Territory	45,542
„ Salem District	5,486
„ Coimbatore and Malabar Districts	1,878
„ Cuddapah District	33,045
„ Bellary and Kurnool	37,335
Total	146,454

6. The despatches of grain from Madras from 3,000 tons in August rose to over 10,000 tons in October, and to more than 13,000 tons in November, from which time the despatches have been limited only by the carrying powers of the Madras Railway.

7. Hence it is apparent that there was a very great activity in the grain trade of Madras during the autumn, a fact very material to the estimate which was found of the conjuncture arising at that period.

RICHARD TEMPLE.

Memorandum.

The following notes are based upon returns which have just been obtained from Madras. The very extensive importation into Madras of grain from the subordinate ports during the months of August, September, and October 1876 had escaped my notice, and I have to express my thanks to Captain Coaker, R.E., Deputy Consulting Engineer, and to Mr. H. R. Church, Traffic Manager of the Madras Railway, for having called attention to the matter and for having assisted me in obtaining the additional statistics now presented.

2. For the months of August, September, and October 1876 the published statements of the Madras Board of Revenue show the imports of food-grains into the port of Madras at 5,637 tons. During the same period the Madras Railway alone carried out of Madras 20,440 tons of grain and the question arose where this supply came from.

The figures thus published are found to be the imports from non-subordinate ports only, the imports of food-grains from the ports subordinate to the Madras Presidency during these months having actually amounted to 38,000 tons in addition to the 5,637 tons above mentioned.

During November and December 1876 55,466 tons were delivered in Madras from beyond the Presidency, and 30,000 tons from the subordinate ports; while during the first three months of 1877 the imports of food-grains into the port of Madras amounted to 165,852 tons from ports beyond, and 36,000 tons from other ports within the jurisdiction of the Local Government. The imports into the port of Madras, commencing in August with a total of 15,000 tons, thus steadily rose up to January 1877, when the total imports from all sources into Madras alone exceeded 80,000 tons.

The total food supply made available in Madras from August 1876 to the end of March 1877 was therefore—

	TONS.
From subordinate ports	104,000
From non-subordinate ports	22,700
Total	126,700

Of this vast supply, the Madras Railway forwarded from Madras over 140,000 tons, its maximum despatches having amounted to 13,000 tons during the month of March.

Up to the end of March, the other East Coast ports of Nagapattinam, Tuticorin, and other districts served by the Madras Railway sent to the more distant Southern India to send to the more distant districts 8,000 tons of this amount.

During the same period Beypore and Calicut received approximately 63,000 tons of food-grain. Of this over 35,000 tons was sent up by rail, nearly all to Coimbatore, Salem, and Mysore. The Malabar District probably received much of this by land, for it sent away by rail 5,000 tons of grain more than it received.

* The total up to the end of March has been assumed at 55,000 tons.

The other ports on the West Coast are said to have received 52,750* tons up to the end of February, and this large supply has all been distributed by cart.

If the period from August to October 1876 be included, the total imports into the Madras Presidency will be seen to be as follows:—

IMPORTS of food-grains into the Presidency of Madras.

Madras received in	From Ports beyond the Presidency or Non-Subordinate Ports.	From Subordinate Ports.	Total.
	TONS.	TONS.	TONS.
August 1876	1,769	38,000	43,637
September	875		
October	2,993		
November	26,792		
December	28,674	36,000	201,852
January 1877	72,985		
February	57,421		
March	35,446		
Total	226,955	104,000	330,955

Other East Coast Ports received from all sources	TONS. 25,000
Grand Total, Madras and East Coast	355,955
Beypore and Calicut received from all sources	63,000
Other West Coast Ports do.	55,000
Grand Total, West Coast Ports	118,000
The Northern Districts received by rail from G.I.P. Railway	61,000

The above figures abstracted show the total imports as follows:—

By sea from Bengal, Burma, Orissa, and Ganjam to Madras—	TONS. 356,000
Tuticorin, &c.	118,000
By sea into Beypore and other West Coast Ports	63,000
By G.I.P. Railway from Northern and Central India into the Madras Presidency	61,000
Grand Total	535,000

BOMBAY,
28th April 1877.

W. S. S. BISSET, Captain, R.E.,
On Special Duty.

Memorandum.

THE three accompanying statements abstracted from returns furnished at Sir Richard Temple's request by the Officers of the Madras Railway Company contain statistics of considerable interest to the mercantile world.

The first exhibits the movements of food-grains on the Madras Railway for March 1877; the second shows month by month the quantity of food-grain delivered by rail into each district; and the third exhibits the total quantities received in each district from the 1st August to the 31st March, as well as the source from which the supplies have been drawn. In Statement No. II the last column professes to show the total delivery of each month by the Madras Railway, but it is necessary to explain that a considerable portion of the grain invoiced from Northern India in December 1876 and January 1877 was not actually delivered in the Madras Presidency till the month of February.

The best month's work out of Madras has been that of March, when nearly 35,000 tons of grain were despatched; the best month's work from Beypore that of January, when over 10,000 tons of grain were carried; and the best month's work from the northern end that of February, when the actual quantity of grain sent southwards from Raichore was approximately 18,000 tons.

Up to the end of March there was no effective increase to the engine power, for, although the additional engines were in the hands of the Madras Railway Company, the drivers for these engines had not reached their posts till the first week of April.

With the increased demand, which is just beginning to be felt in the Ceded Districts of Madras, and which, in my humble opinion, is likely to grow daily till the rains fall, the additional engine power will be fully engaged; and it may be worthy of notice that, while the despatches of grain from Madras cannot be largely increased without suspension of the ordinary traffic, there is even now train-room for many more grain-wagons from the north.

DURGO,
25th April 1877.

W. S. S. BISSET, Captain, R.E.,
On Special Duty.

No. 1.
MADRAS RAILWAY.
Movement of Food Grains for Month ending 31st March 1877.

Forwarded from	RECEIVED AT											
	Madras District.	North Arcot District.	Mysore Territory.	Salem District.	Coimbatore District.	Malabar District.	Between Coodeor and Wontimittah.	Cuddapah and Yerraguntla.	Gooty and Tadputri.	Bellary.	Adoni.	Total.
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
Madras	29	4,677	12,958	2,358	465	...	407	7,426	2,955	2,955	517	34,747
Beypore	...	263	1,679	2,308	3,017	372	...	...	...	...	...	7,069
South Indian Railway ...	2	26	499	636	46	...	...	...	...	...	...	1,209
	15	47	97	70	...	...	6	28	...	4	...	3,226
	...	4	87	189	10	...	...	4	...	...	...	267
	...	8	100	209	74	...	...	...	...	...	...	294
	...	...	...	...	...	...	...	...	...	...	...	391
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...
Total	76	5,056	15,484	5,786	3,612	372	413	7,796	3,298	7,100	3,810	52,803
												8,209

(Signed) H. E. CHURCH,
Traffic Manager.

MADRAS,
24th April 1877.

No. II.
MADRAS RAILWAY.

Statement exhibiting Month by Month the Total Amount of Food Grain received from all Sources in the following Districts per Madras Railway from 1st August 1876 to 31st March 1877.

	RECEIVED IN							Total Delivery of the Month.
	Madras or Chingleput District.	North Arcot District.	Mysore Territory.	Salem District.	Coimbatore District.	Malabar District.	Cuddalore District.	
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
September	429	653	8,049	642	1,667	2,169	782	12,729
October	640	1,049	6,178	1,356	1,238	615	762	17,369
November	284	1,863	14,485	1,643	925	839	2,641	31,096
December	368	1,879	10,194	2,183	1,862	1,324	4,760	37,859
1877.	167	6,755	11,515	4,475	3,451	808	10,091	59,011
January	201	5,084	12,072	4,908	3,567	966	8,356	56,059
February	143	4,165	9,220	4,037	3,826	525	9,389	44,919
March	76	5,056	15,484	5,780	3,612	372	8,209	52,803
Total	1,886	27,354	82,192	23,610	20,218	7,678	45,480	310,957

W. S. S. BISSET.

No. III.
MADRAS RAILWAY.

Statement exhibiting the total Quantities of Food Grains forwarded from and received at the following places per Madras Railway from 1st August 1876 to 31st March 1877.

Forwarded from	RECEIVED AT								Total.
	Madras or Chingleput District.	North Arcot District.	Mysore Territory.	Salem District.	Coimbatore District.	Malabar District.	Cuddalore District.	Bellary and Kurnool Districts.	
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
Madras	514	22,316	45,542	5,483	1,869	9	38,045	37,335	146,454
Paypura	67	2,501	11,858	7,184	10,773	1,855	523	678	35,430
G. I. & 2. Railway	329	297	2,298	148			4,138	53,553	60,683
5 L.	78	514	8,100				585	262	15,257
	761	701	3,561	769	795	283	3,160	640	10,670
	84	381	4,025	1,540	453	78	467	271	7,299
	17	410	3,337	3,747	1,177	225	647	250	9,810
	16	130	2,559	1,407	3,548	4,399	44	4	12,167
	9	43	883	89	1	4		25	1,054
	11	28		1			1,296	1,336	2,572
		53		9	5		1,585	7,807	9,481
	1,886	27,374	82,192	23,610	20,218	7,678	45,490	102,161	310,957

W. S. S. BISSET.

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Revenue Department, 12th May 1877, No. 1,709-B.

No. 258-D.

ORDER THEREON, 12th May 1877, No. 1709-B.

Miscellaneous

COMMUNICATED to the Revenue Board
with the request that they will report—

- (1) What have been the additions to the food stocks of the Presidency from places beyond its limits between May 1st 1876 and April 30th 1877.
- (2) What have been the additions to those stocks in the distressed districts from all quarters during the same period.

(True Extract.)

(Signed) J. H. GARSTIN,
Additional Secretary to Government.

To the Board of Revenue,
the Financial Department.

No. 218.

From

C. E. BUCKLAND, ESQ., C.S.,
Private Secretary to Sir Richard Temple,

To

J. H. GARSTIN, ESQ.,
*Additional Secretary to the
Government of Madras,*

Dated BOMBAY, 28th April, 1877.

Sir,

I am directed by Sir Richard Temple

1. Minute by Sir Richard Temple dated Bombay 28th April 1877.

2. Memorandum by Captain Bisset, B. E. of the imports of grain into the Presidency of Madras by sea and land.

3. Memorandum by Captain Bisset, B. E. on the movement of grain by the Madras Railway from August 1876 to March 1877.

to forward the papers named in the margin on the subject of the imports of grain into the Presidency of Madras, and its transport by the Madras Railway.

2. In consideration of the interest attaching to the subject, the statistical tables contained in these Memoranda have been placed at the disposal of the Press for the information of the mercantile world.

I have the honor to be,

Sir,

Your most obedient Servant,

C. E. BUCKLAND,
Private Secretary to Sir Richard Temple.

Minute by Sir Richard Temple, dated Bombay,
28th April, 1877.

Later information makes it desirable to state finally the statistics of the imports of food-grains into the Presidency of Madras. Since the commencement of the scarcity of 1876-77, copies of certain notes and Memoranda by Captain Bisset are forwarded.

2. It was assumed originally on the published data of the Madras Board of Revenue that the imports before the month of November were, although inconsiderable. The despatches of grain by rail from Madras were, however, during the months of August, September and October, so much in excess of the total imports thus shown that it was doubted whether the Board's statements were complete. And on further inquiry it was ascertained that the 5,637 tons shown as imported during August, September and October, from beyond the Presidency were supplemented by an import amounting to 38,000 tons from ports known by the Madras Board of Revenue, as "subordinate ports."

3. Thus before November, the month previously recognized by me as the beginning of heavy imports, there were delivered into Madras a total of 44,000 tons of food-grains. Some corrections have been made in the returns for the period from November onwards, the estimated imports for March having been very much exceeded by the actuals both at Madras and at the minor ports on the East and West coasts, and the whole supply taken by the Presidency has to be stated at 535,000 tons.

4. The following is the abstract of importations in the Presidency of Madras:

By sea from Bengal, Burma, Orissa	
and Ganjam to Madras and other	
East Coast ports	336,000
To Bangalore	118,000
By the G. I. P. Railway	81,000

Grand Total 535,000

5. The following is an abstract of the quantities of grain which were carried away by rail from Madras into the interior.

	Tons.
To Chingleput District	514
North Arcot District	22,316
Mysore Territory	45,542
Salem District	5,486
Coimbatore & Malabar Dist.	1,878
Cuddapah District	33,045
Bellary and Kurnool	37,335

Total 146,454

6. The despatches of grain from Madras from 3,000 tons in August rose to over 10,000 tons in October, and to more than 13,000 tons in November, from which time the despatches have been limited only by the carrying powers of the Madras Railway.

7. Hence it is apparent that there was a very great activity in the grain trade of Madras during the autumn a fact very material to the estimate which was formed of the conjuncture arising at that period.

RICHARD TEMPLE.

Memorandum.

The following notes are based upon returns which have just been obtained from Madras. The very extensive importation into Madras of grain from the subordinate ports during the months of August, September and October, 1876 had escaped my notice, and I have to express my thanks to Captain Coaker, R. E., Deputy Consulting Engineer, and to Mr. H. E. Church, Traffic Manager of the Madras Railway for having called attention to the matter and for having assisted me in obtaining the additional statistics now presented.

2. For the months of August, September and October, 1876, the published statements of the Madras Board of Revenue show the import of food-grains into the port of Madras at 5,637 tons. During the same period the Madras Railway alone carried out of Madras 20,440 tons of grain and the question arose where this supply came from.

The figures thus published are found to be the imports from non-subordinate ports only; the imports of food-grains from the ports subordinate to the Madras Presidency during these months having actually amounted to 38,000 tons in addition to the 5,637 tons above mentioned.

During November and December, 1876, 55,466 tons were delivered in Madras from beyond the Presidency, and 30,000 tons from the subordinate ports; while during the first three months of 1877, the imports of food grains into the port of Madras amounted to 165,852 tons from ports beyond, and 36,000 tons from other ports within the jurisdiction of the Local Government. The imports into the port of Madras commencing in August with a total of 15,000 tons thus steadily rose up to January 1877 when the total imports from all sources into Madras alone exceeded 80,000 tons.

The total food supply made available in Madras from August 1876 to the end of March 1877 was therefore

From subordinate ports..... 104,000
From non-subordinate ports. 226,956
Total tons... 331,000

Of this vast supply, the Madras Railway forwarded from Madras over 125,000 tons, its maximum despatches having amounted to 35,000 tons during the month of March.

Up to the end of March, the minor east coast ports of Negapatnam, Tuticorin and others imported 25,000 tons of grain and this supply enabled Southern India to send to the more distressed districts served by the Madras Railway over 15,000 tons of food grains—Mysore taking over 8,000 tons of this amount.

During the same period Beypore and Calicut received approximately 63,000 tons of food grain. Of this over 35,000 tons was sent up by rail, nearly all to Coimbatore, Salem and Mysore. The Malabar district probably received much of this by land, for it sent away by rail 5,000 tons of grain more than it received.

The other ports on the west coast are said to have received 52,750* tons up to the end of February, and this large supply has all been distributed by cart.

If the period from August to October, 1876, be included, the total imports into the Madras Presidency will be seen to be as follows:—

Imports of food-grains into the Presidency of Madras.

Madras received in		From ports beyond the Presidency or non-subordinate ports.	From subordinate ports.	Total.
		Tons.	Tons.	Tons.
August	1876.	1,769	38,000	43,637
September	"	875		
October	"	2,993		
November	"	26,792		
December	"	28,674	36,000	201,852
January	1877.	72,985		
February	"	57,421		
March	"	35,446		
Total tons...		226,956	104,000	330,956

Other East coast ports received from all sources..... 25,000

Grand Total Madras and East Coast... 355,956

Beypore and Calicut received from all sources..... 63,000

Other west coast ports..... 55,000

Grand Total west coast ports tons... 118,000

The Northern Districts received by rail from G. I. P. Railway..... 61,000

The above figures abstracted show the total imports as follows:—

By sea from Bengal, Burma, Orissa, and Ganjam to Madras..... 355,956

Tuticorin, &c..... 25,000

By sea into Beypore and other west coast ports..... 118,000

By G. I. P. Railway from Northern and Central India into the Madras Presidency. 61,000

Grand total tons... 535,000

Bombay, 22d April, 1877.

W. S. S. BISSITT

MEMORANDUM.

Dated Dhond, 25th April, 1877.

The three accompanying statements abstracted from returns furnished, at Sir Richard Temple's request, by the Officers of the Madras Railway Company, contain statistics of considerable interest to the mercantile world.

The first exhibits the movements of food grains on the Madras Railway for March, 1877; the second shews month by month the quantity of food grain delivered by rail into each district; and the third exhibits the total quantities received in each district from the 1st August to the 31st March, as well as the source from which the supplies have been drawn. In Statement No. II. the last column professes to show the total delivery of each month by the Madras Railway; but it is necessary to explain that a considerable portion of the grain invoiced from Northern India in December, 1876, and January, 1877, was not actually delivered in the Madras Presidency till the month of February.

The best month's work out of Madras has been that of March, when nearly 35,000 tons of grain were despatched; the best month's work from Beypore that of January, when over 10,000 tons of grain were carried, and the best month's work from the northern end that of February, when the actual quantity of grain sent southwards from Raichore was approximately 18,000 tons.

Up to the end of March there was no effective increase to the engine power, for although the additional engines were in the hands of the Madras Railway Company, the drivers for the engines had not reached their posts till the first week of April.

With the increased demand which is just beginning to be felt in the Ceded Districts of Madras, and which, in my humble opinion, is likely to grow daily till the rains fall, the additional engine power will be fully engaged; and it may be worthy of notice that while the despatches of grain from Madras cannot be largely increased without suspension of the ordinary traffic, there is even now train-room for many more grain waggons from the north.

W. S. S. BISSET, R. E.

On Special Duty

No 1.

MADRAS RAILWAY

Movement of Food Grains for Month ending 31st March, 1877

Forwarded from	RECEIVED AT									
	Madras District	North Arcot District	Mysore Territory	Salem District	Coimbatore District	Malabar District	Between Cochin and Wontinetah.	Cuddapah and Yerragootla.	Goody and Tadputri.	Bellary.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Madras	29	4,077	12,958	2,858	463	...	407	7,426	2,855	2,955
Beypore	...	4,293	1,019	2,308	8,917	272	...	...	...	...
South Indian Railway	2	26	439	636	46	...	...	...	...	...
O. I. P. Railway	20	1	64	16	...	...	...	338	343	4,141
North Arcot	15	47	67	70	...	...	8	28	...	4
Salem	...	4	87	189	10	...	...	4	...	...
Coimbatore	...	8	100	209	74	...	...	...	...	...
Total	76	5,056	15,434	5,786	5,612	372	413	7,796	3,298	7,100
								8,209		3,810
										52,893

TRAFFIC MANAGER'S OFFICE,
MADRAS, 24th April, 1877.

(Signed) H. E. CHURCH
Traffic Manager.

4.17092
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MADRAS RAILWAY.

Statement exhibiting month by month the total amount of Food Grain received from all sources in the following districts per Madras Railway from 1st August, 1876, to 31st March, 1877.

RECEIVED IN									
	Madras or Chingleput District.	North Arcot District.	Mysore Territory.	Salem District.	Coimbatore District.	Malabar District.	Cuddalore District.	Bellary and Karned Districts.	Total delivery of the month.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1876									
August	429	653	3,049	642	1,667	2,169	782	3,359	12,720
September	228	1,949	6,173	1,264	1,238	615	762	5,040	17,369
October	234	1,363	14,485	1,543	925	839	2,641	8,466	31,096
November	308	1,879	10,194	2,183	1,962	1,324	4,760	15,189	37,859
December	507	6,735	11,515	4,475	3,451	868	10,091	21,729	59,011
1877									
January	201	5,034	12,072	4,308	3,567	966	8,836	20,455	56,059
February	143	4,163	9,920	4,037	3,626	525	9,389	13,614	44,919
March	70	5,956	15,484	5,786	3,612	872	8,209	14,208	52,803
Total Tons.	1,886	27,354	82,102	23,010	20,248	7,678	45,490	102,161	310,957

W. S. S. BISSET.

MADRAS RAILWAY.

Statement exhibiting the Total Quantities of Food Grain forwarded from and received at the following places per Madras Railway from 1st August, 1876, to 31st March, 1877.

FORWARDED FROM.	RECEIVED AT								
	Madras or Chingleput District.	North Arcot District.	Mysore Ter- ritory.	Salem District.	Coimbatore District.	Malabar District.	Cuddapah District.	Bellary and Kurnool Districts.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Madras	514	22,313	45,542	5,485	1,869	9	33,945	37,335	116,454
Raypore	67	2,501	11,353	7,186	10,773	1,855	593	678	35,430
Q. & N. Railway	529	297	2,208	148	10	...	4,138	53,553	60,683
S. Railway	78	314	8,197	3,170	3,617	824	585	362	15,647
N. Arcot District	761	701	3,561	769	793	283	3,130	640	10,370
Salem District	84	381	4,025	1,540	453	78	467	271	7,299
Coimbatore District	37	640	3,337	3,747	1,177	223	647	250	9,810
Malabar District	13	120	2,579	1,467	3,568	4,399	44	4	12,167
Mysore Territory	9	45	883	89	1	4	...	25	1,054
Cuddapah District	1	28	...	...	1	...	1,296	1,236	2,572
Bellary and Kurnool Districts	...	53	22	...	3	...	1,585	7,807	9,481
Total Tons.	1,886	27,374	82,102	23,610	20,248	7,678	45,490	102,161	310,957

W. S. S. BISSET.

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