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MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.G.O. No. 4011Press-
Mis.Dated 8-9-1892.Not to be folded or roughly handled

No. 2217
77

FROM

E. D. MACLAGAN, Esq., C.S.,
Offg. Under-Secretary to the Government of India,

TO

THE SECRETARY TO THE GOVERNMENT OF MADRAS.

Simla, the 10th August 1892.

Rev. & Agri. Dept.
Statistics.

CHIEF SECRETARY
16 SEP 92
GOVERNMENT OF MADRAS

SIR,

WITH reference to the Circular from the Government of India in the Financial Department, No. 297-S., dated 28th November 1890, I am directed to forward the statement noted in the margin in proof, and to request that the statistics required to complete the columns left blank opposite the Madras Presidency, may be filled in as far as possible, and the proof returned to this office at an early date.

2. Any revision that may be necessary in the figures for previous years included in the table should also be made and indicated in red ink in the proof.

I have the honour to be,

SIR,

Your most obedient Servant,

E. D. MacLagan

Offg. Under-Secretary to the Government of India.

Chm.

*With 2 copies of the statement
sent to the Secretary to the Government of India
for his consideration.*

Statement showing the progress made in the cultivation of Cinchona in the several Plantations
in India in each of the Official years 1887-88 to 1891-92.

Statement showing the progress made in the cultivation of Cinchona in the

SPECIES AND VARIETIES.		SIKKIM NUMBER OF ACRES UNDER CULTIVATION AND													
		1888.							1889.						
		Acres under cultivation.	Plants in permanent plantation.	Stock plants for propagation.	Seedlings or rooted cuttings in nursery beds for permanent plantation.	Rooted plants in cutting beds.	Unrooted cuttings.	Total number of plants, cuttings, and seedlings.	Acres under cultivation.	Plants in permanent plantation.	Stock plants for propagation.	Seedlings or rooted cuttings in nursery beds for permanent plantation.	Rooted plants in cutting beds.	Unrooted cuttings.	Total number of plants, cuttings, and seedlings.
succirubra	1,230	2,182,000	...	...	...	...	2,182,000	...	1,882,000	...	...	...	...	...	1,882,000
C. calisaya	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ ledgeriana	537	1,464,100	...	230,000	...	...	1,694,100	...	1,594,760	...	225,000	...	...	...	1,819,760
C. „ verde and morada	66	183,300	...	...	...	...	183,300	...	173,300	...	...	...	...	...	173,300
C. „ micrantha	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
C. officinalis, and varieties	7	20,000	...	...	...	...	20,000	...	15,000	...	...	...	...	...	15,000
C. pahadiana	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
C. hybrid	368	1,002,100	4,000	250,000	...	...	1,256,100	...	1,145,170	4,000	200,000	...	...	...	1,349,170
C. hard carthegena	...	4	...	...	...	...	4	...	1	...	...	...	...	...	1
TOTAL	2,208	4,851,504	4,000	480,000	...	...	5,335,504	...	4,810,231	4,000	425,000	...	...	...	5,239,231

THANDOUNGYEE
NUMBER OF ACRES UNDER CULTIVATION

	ON THE 31ST MARCH 1889.						ON THE 31ST MARCH 1889.					
	Acres under cultivation.	Plants in permanent plantation.	Stock plants for propagation.	Seedlings or rooted cuttings in nursery beds for permanent plantation.	Rooted plants in cutting beds.	Unrooted cuttings.	Acres under cultivation.	Plants in permanent plantation.	Stock plants for propagation.	Seedlings or rooted cuttings in nursery beds for permanent plantation.	Rooted plants in cutting beds.	Unrooted cuttings.
C. succirubra	21,500†	...	...	...	...	21,500†	11,500†	...	...	...	...	11,500†
C. calisaya	500	...	...	...	...	500	...	...	...	...	...	...
C. officinalis, var. condaminia	27,500†	...	...	...	...	27,500†	12,500†	...	...	...	...	12,500†
TOTAL	49,500	...	...	...	...	49,500	24,000	...	...	...	...	24,000

† No information

several Government Plantations in India in each of the Official years 1887-88 to 1891-92.

PLANTATIONS.

NUMBER OF PLANTS ON THE 31ST MARCH.

	1890.						1891.						1892.					
	1890.						1891.						1892.					
	Acres under cultivation.	Plants in permanent plantation.	Stock plants for propagation.	Seedlings or rooted cuttings in nursery beds for permanent plantation.	Rooted plants in cutting beds.	Unrooted cuttings.	Acres under cultivation.	Plants in permanent plantation.	Stock plants for propagation.	Seedlings or rooted cuttings in nursery beds for permanent plantation.	Rooted plants in cutting beds.	Unrooted cuttings.	Acres under cultivation.	Plants in permanent plantation.	Stock plants for propagation.	Seedlings or rooted cuttings in nursery beds for permanent plantation.	Rooted plants in cutting beds.	Unrooted cuttings.
...	1,612,000	...	...	...	...	1,612,000	...	1,420,000	...	...	...	...	...	1,420,000	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	1,699,250	...	220,000	...	...	1,919,250	...	1,781,690	...	200,000	...	...	...	1,981,690	...	...	...	...
...	153,300	...	...	...	...	153,300	...	143,300	...	...	...	...	...	143,300	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	15,000	...	...	...	...	15,000	...	10,000	...	...	...	...	...	10,000	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	1,202,850	4,000	40,000	...	...	1,246,850	...	1,160,870	4,000	30,000	...	...	...	1,194,870	...	...	...	...
...	1	...	...	...	...	1	...	1	...	...	...	...	...	1	...	...	...	...
...	4,682,401	4,000	260,000	...	...	4,946,401	...	4,515,861	4,000	230,000	...	...	...	4,749,861	...	...	...	...

PLANTATION (BURMA)
TION AND NUMBER OF PLANTS.

ON THE 31ST MARCH 1890.						ON THE 31ST MARCH 1891.						ON THE 31ST MARCH 1892.					
There is no plantation in Burma.						There is no plantation in Burma.						There is no plantation in Burma.					

available. † Estimated.

Statement showing the progress made in the cultivation of Cinchona in the several Government Plantations in India in each of the Official years 1887-88 to 1891-92.—contd.

NILGIRI PLANTATIONS.

Species and Varieties.	NUMBER OF ACRES UNDER CULTIVATION ON THE 31st MARCH			NUMBER OF PLANTS RAISED DURING THE YEAR ENDING 31st MARCH					TOTAL.	PLANTS IN PERMANENT PLANTATION ON 31st MARCH		
	1890.	1891.	1892.	1888.	1889.	1890.	1891.	1892.		1890.	1891.	1892.
C. succiruba	...	...	...	...	...							
C. officinalis	...	...	...	177,000	134,000							
C. calisaya, var. ledgeriana	...	...	...	...	...							
C. " other varieties	...	...	...	...	10,000							
C. mierantha	...	...	...	...	...							
C. pubescens	...	...	...	92,500	...							
*C. pitayensis	...	...	...	...	...							
C. lanceolata	...	...	...	...	...							
C. carthagena	...	...	...	...	100							
C. santa fé	...	...	...	...	...							
C. hybrids and others	...	...	...	100,000	182,500							
TOTAL	...	...	...	378,500	327,600							

Statement showing the outturn and disposal of Cinchona Bark at the Government Plantations in India during each of the Official years 1887-88 to 1891-92.

SIKKIM PLANTATION.

	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.
	lb	lb	lb	lb	
Balance in store on 1st April	249,304	296,619	359,790	426,275	
Outturn of bark collected during the year	290,410	373,100	304,705	293,972	
TOTAL	539,714	669,719	664,495	720,247	
Sold locally (to Medical Department)	1,070	1,559*	300†	107(a)	
Issued to Quinologist for manufacture of Cinchona Febrifuge, Crystalline Febrifuge, and Sulphate of Quinine.	242,025	308,370	237,920	250,230	
TOTAL	243,095	309,929	238,220	250,330	
Balance in store on 31st March	296,619	359,790	426,275	469,917	

* Sold to the Medical Department and the public.

† Sold to the public.

(a) Supplied to Government institutions.

THANDOUNGYEE PLANTATION (BURMA).

Outturn of bark collected during the year	There is now no plantation in Burma.			
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Statement showing the outturn and disposal of Cinchona Bark at the Government Plantations in India during each of the Official years 1887-88 to 1891-92.—contd.

NILGIRI PLANTATIONS.

	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.
	lb	lb			
Balance in store on 1st April	158,222	243,968			
Outturn of bark collected during the year	92,746	110,162			
TOTAL	250,968	354,130			
Exported for sale in England	...	...			
Quinologist for manufacture of febrifuge	3,800	17,300			
Madras Medical Department	1,400	1,050			
Issued to Calcutta	...	...			
Bombay	1,800	...			
Private parties	...	...			
TOTAL	7,000	18,350			
Balance in store on 31st March	243,968	335,780			

Statement showing the expenditure, produce, and receipts at the Government Cinchona Plantations in India for each of the Official years 1887-88 to 1891-92.

SIKKIM PLANTATIONS.

	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.
PLANTATIONS—					
Total expenditure on the old plantations, viz., Rungbee, Mungpoo and Sittong	R 66,425				
Total expenditure on the new plantation at Rungjung	10,282	72,549	69,197	68,629	
Produce of bark from the old plantations	lb 217,780	293,750	222,025	199,670	
Produce of bark from the new plantation at Sittong	72,630	67,740	50,180	57,440	
Produce of bark from the new plantation at Rungjung	...	11,610	32,500	36,862	
Rate per lb	R 0-4-3	0-3-1	0-3-8	0-3-9	
Receipts by sale of bark from the old plantations	1,284	2,669	1,125	306*	
FEBRIFUGE FACTORY AT SIKKIM—					
EXPENDITURE—					
Muriatic Acid	lb 16,839	17,104	9,649	2,280	
Sulphuric Acid	R 3,157	3,207	1,809	427	
Caustic soda	...	2,505	2,045	13,206	
Packing and carriage	...	313	256	825	
Sundries	lb 45,476	40,381	44,430	35,350	
Fusel oil	2,165	2,228	2,468	2,659	
Kerosine oil	3,455	5,905	4,907	3,964	
Quinologist	8,063	8,305	9,350	7,768	
Travelling expenses	12,321	5,675	6,715	4,153	
Labour	R 2,582	8,922	11,561	6,372	
Bark	813	1,086	3,338	1,850	
	2,400	997	2,400	2,400	
TOTAL	R 95,403	108,620	92,615	86,715	
PRODUCE—					
Cinchona Febrifuge	lb 6,916	6,384	6,578	4,031	
Rate per lb	R 12-13-10	12-10-8	10-12-3	8	
Crystalline Febrifuge	1	...	...	...	
Rate per lb	R 16-6-2	...	...	...	
Sulphate of quinine	331½	2,191	1,833	4,010	
Rate per lb	R 19-5-0	12-10-8	11-14-3	13-9-4	
RECEIPTS—					
By sale of cinchona febrifuge	R 1,28,549	1,02,078	89,516	53,606	
crystalline febrifuge	1,262	697	691	345	
sulphate of quinine	6,416	24,418	22,361	64,319	

* Includes receipts from sale of seed.

Statement showing the expenditure, produce, and receipts at the Government Cinchona Plantations in India for each of the Official years 1887-88 to 1891-92—contd.

THANDOUNGYEE PLANTATION (BURMA.)

	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.
Total expenditure R					
Produce in bark lb					
There is no plantations in Burma.					

NILGIRI PLANTATIONS.

Total expenditure R	72,001	73,134			
Produce in bark lb	92,746	110,162			
Rate per lb realized by sale R	...	...			
Receipts by sales in England R	...	...			
Miscellaneous local receipts R	3,941	3,602			
TOTAL R	3,941	3,602			

* No bark was sold during the year.

Statement showing the progress made in the cultivation of Cinchona in private Plantations in India.

MADRAS PRESIDENCY.

SPECIES AND VARIETIES.	ON THE 31st MARCH 1888.			ON THE 31st MARCH 1889.			ON THE 31st MARCH 1890.			ON THE 31st MARCH 1891.			ON THE 31st MARCH 1892.			
	Under cultiva- tion.	Permanently planted.	Estimated out- turn for the year 1887-88.	Under cultiva- tion.	Permanently planted.	Estimated out- turn for the year 1888-89.	Under cultiva- tion.	Permanently planted.	Estimated out- turn for the year 1889-90.	Under cultiva- tion.	Permanently planted.	Estimated out- turn for the year 1890-91.	Under cultiva- tion.	Permanently planted.	Estimated out- turn for the year 1891-92.	
<i>Nilgiris.</i>	Acres.	Plants.	lb	Acres.	Plants.	lb	Acres.	Plants.	lb	Acres.	Plants.	lb	Acres.	Plants.	lb	
C. succirubra	833	1,188,787	126,358	921½	1,105,917	5,560	527	729,179	14,230	800	775,404	228,734	544	344,750	130,262	
C. officinalis	464	891,700	32,500	1,225½	1,746,380	186,115	273	646,200	24,350	1,181	2,378,260	219,500	989	1,470,000	153,715	
C. " var. condaminia	1,420	3,485,973	260,558	396½	1,181,463	78,600	332	604,527	58,075	615	1,304,068	90,740	643	1,453,620	86,500	
C. calisaya	3	3,900	*	3	3,900	975	3	3,900	480	1	700	...	3	3,900	350	
C. " var. ledgeriana	453	675,969	51,497	581½	2,796,648	*	229	406,368	74,615	137	208,326	22,298	157	194,192	54,701	
C. " other varieties	6	17,998	1,500	26½	31,870	325	19	5,000	160	5	13,000	300	2	2,600	500	
C. pubescens	39	64,080	180	31	61,000	*	1	1,200	...	29	9,250	2,000	26	11,325	3,000	
C. carthagenia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
C. hybrids and others	281	447,380	71,022	506½	1,070,575	1,325	333	573,367	188	480	687,034	25,000	245	105,500	4,500	
C. mixed varieties	530	1,223,359	2,000	226½	496,000	21,320	335	108,100	8,000	739	576,135	194,810	913	908,000	182,000	
TOTAL	4,120½	7,999,744½	545,613	4,222½	8,403,798½	(b) 284,220	2,052½	3,077,919	190,098	(d)	3,997½	6,932,265	(d)	3,876	4,493,397	664,738
<i>Salem.</i>	↑															
C. succirubra	23	14,392½	...	23	(a) 14,392	...	25	15,506	...	...	15,000	...	5	3,000	-	
C. officinalis, var. condaminia	*	2,000½	...	*	2,000	...	9	16,550	...	...	16,550	...	-	-	-	
C. calisaya	...	1	...	...	1	...	...	...	...	...	...	...	...	250	-	
C. " var. ledgeriana	...	...	...	...	...	...	...	250	...	...	200	...	...	-	-	
C. pubescens	½	870	*	½	870	*	½	870	...	...	870	...	...	-	-	
C. hybrids and others	...	2	...	...	2	...	...	...	...	...	...	...	...	-	-	
TOTAL	23½	17,285	...	23½	17,285	...	35	33,176	...	(c)	(c) 32,620	(c)	(c) 5½	(c) 3,250	(c)	

* No information available.

† These totals represent only the figures given by the Planters. According to the village accounts they amount to 9,598 acres and 19,174,000 plants during 1887-88; 10,330 acres and 20,659,040 plants during 1888-89; 9,420 acres and 18,39,220 plants during 1889-90; and 10,392 acres and 21,983,490 plants during 1890-91.

‡ The Collector of the district reports that these plants have been abandoned, and are dying out.

(a) Planted amongst 23 acres of coffee and as avenues; those amongst the coffee have been abandoned, and are dying out.

(b) This quantity is exclusive of 349,931 lb. which is the outturn for South East Wynad, Nilgiri district, for which particulars are not given against such species.

(c) The cinchona plants have almost been abandoned and replaced by coffee plants, and have died out.

(d) The increase over the figures of the previous years is due to the greater number of returns received from Planters during the year.

Statement showing the progress made in the cultivation of Cinchona in private plantations in India—contd.

MADRAS PRESIDENCY—contd.

SPECIES AND VARIETIES.	ON THE 31st MARCH 1888.			ON THE 31st MARCH 1889.			ON THE 31st MARCH 1890.			ON THE 31st MARCH 1891.			ON THE 31st MARCH 1892.		
	Under cultiva- tion.	Permanently planted.	Estimated out- turn for the year 1887-88.	Under cultiva- tion.	Permanently planted.	Estimated out- turn for the year 1888-89.	Under cultiva- tion.	Permanently planted.	Estimated out- turn for the year 1889-90.	Under cultiva- tion.	Permanently planted.	Estimated out- turn for the year 1890-91.	Under cultiva- tion.	Permanently planted.	Estimated out- turn for the year 1891-92.
<i>Malabar.</i>	Acres.	Plants.	lb	Acres.	Plants.	lb (b)	Acres.	Plants.	lb (b)	Acres.	Plants.	lb	Acres.	Plants.	lb
C. succirubra	1,147	1,584,600	151,058	1,776	2,036,548	372,853	1,584	1,630,242	465,372	977	852,900	463,241	931	925,268	488,544
C. officinalis	2	"	78	2	3,180	"	...	...	...	...	...	...	...	...	...
C. " var. condaminia	"	5,000	"	...	...	...	10	30,108	(b) 2,143	...	...	...	...	...	...
C. calisaya	13	"	525	1	2,025	"	2	1,799	...	7	8,159	7,552	4	6,000	2,000
C. " var. ledgeriana	1,025	183,600	61,980	899	1,249,300	11,500	879	1,077,004	18,915 (b)	862	896,120	259,680	874	1,194,530	258,782
C. " other varieties	...	...	...	...	...	...	78	89,444	1,430	17	3,800	4,810	...	...	...
C. pubescens	3	"	"	44	70,970	"	...	...	...	7	4,400	2,553	40	53,200	3,420
C. hybrids and others	37	5,600	930	177	279,542	"	20	28,210	...	21	31,750	...	292	124,807	1,887
C. mixed varieties	46	"	1,750	15	23,638	"	...	...	...	63	77,507	1,525	-	-	-
TOTAL	2,273	1,778,800	216,321	2,914	3,665,203	384,353	(a) 2,573	(a) 2,856,805	(a) 487,560	(a) 1,954	(a) 1,874,728	(a) 739,341	(a) 2,161	(a) 2,103,805	(a) 754,633
<i>Madura.</i>															
C. succirubra	11	12,188	1,042	60	12,188	1,042	150	6,000	(c)	152	9,470	500	-	15,989	-
C. officinalis, var. condaminia	...	...	...	...	...	...	89	106,800	(d)	89	106,800	...	-	-	-
C. calisaya	8	6,912	594	35	6,912	594	...	...	...	...	...	...	-	8,960	-
C. " var ledgeriana	...	...	...	...	...	...	...	...	...	...	...	...	-	-	-
C. " other varieties	...	...	...	...	...	...	...	...	...	...	...	...	-	30	-
TOTAL	19	19,098	1,636	95	19,098	1,636	239	112,800	...	241	116,270	500	-	24,979	-
GRAND TOTAL	6,444½	9,814,907	763,570	7,354	12,195,359	680,209	4,599	6,080,700	667,858	6,102	7,955,981	1,523,521	5,682½	6,905,431	1,419,371

* No information available.

(a) Approximate figures.

(b) Includes outturn under other species of which outturn is not separately available.

(c) Barking not effected owing to a fall in the price of cinchona bark.

(d) Plantations not worked during the year.

Statement showing the progress made in the cultivation of Cinchona in private plantations in India—contd.

BENGAL.

SPECIES AND VARIETIES.	31st MARCH 1888.			31st MARCH 1889.			31st MARCH 1890.			31st MARCH 1891.			31st MARCH 1892.		
	Under cultivation.	Permanently planted.	Estimated out-turn for the year 1887-88.	Under cultivation.	Permanently planted.	Estimated out-turn for the year 1888-89.	Under cultivation.	Permanently planted.	Estimated out-turn for the year 1889-90.	Under cultivation.	Permanently planted.	Estimated out-turn for the year 1890-91.	Under cultivation.	Permanently planted.	Estimated out-turn for the year 1891-92.
<i>C. succirubra</i>	278	351,470	...	267	327,470	...	242	305,800	...	274	259,100	...	...	...	...
<i>C. officinalis, var. condaminia</i>	20	54,270	...	16	52,770	...	16	51,000	...	16	51,000	...	...	...	...
<i>C. calisaya</i>	36	62,730	...	20	34,800	...	20	60,900	...	65	36,900	...	...	...	...
<i>C. " var. ledgeriana</i>	905	1,481,580	52,000	771	1,456,810	72,000	771	1,347,100	116,000	771	1,250,100	122,300	...	...	...
<i>C. " hybrid</i>	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<i>C. hybrid</i>	116	184,140	...	101	182,640	...	95	175,500	...	95	165,500	...	...	...	...
TOTAL	1,535	2,134,490	520,000	1,175	2,054,490	72,000	1,144	1,940,200	116,000	1,221	1,761,700	122,300	...	...	...

† Outturn of two plantations only out of four in the District (Darjeeling).

MYSORE.

<i>C. succirubra</i>	384½	184,541	4,218	387	193,111	1,810	396	199,111	120	396	201,111	2,129	...	...	...
<i>C. officinalis, var. condaminia</i>	...	49,442	...	...	51,486	...	...	52,486	...	...	52,486	...	...	...	...
TOTAL	384½	233,983	4,218	387	244,597	1,810	396	251,597	120	396	254,597	2,128	...	...	...

† 118 acres were brought under cultivation in the Hassan district during 1887-88. The number of plants thereon is 49,479 which, being young, yielded no outturn.

COORG.

C. succirubra	(a)	{	1,330,823	{	87,874	(a)	{	393,025	{	...	282,385	8,214	30,350	{	(b)	57,408	112,057	451,622	50,315		
C. officinalis			...					...			...	...	...			...	...	...	...		
C. calisaya			39,563					15,863			...	...	...			...	...	...	...		
C. " var. ledgeriana			159,414					25,864			40,254	(a)	6,830			...	...	420	25,445	25,445	779
C. micrantha, hybrids			...					...			...	...	...			...	...	...	...	...	
C. other varieties			9,250					9,250			...	...	1,000			...	...	...	...	...	...
TOTAL	(a)		1,537,350		87,874	(a)		444,002	...	(a)	289,215	8,214	50,350	• (b)		57,828	158,502	498,067	51,506		

(a) Cinchona is grown in the spaces between coffee trees in coffee estates, but does not occupy any ground which would otherwise be planted with coffee.

(b) The cultivation of cinchona has practically ceased in Coorg. The trees are in many places being uprooted as their cultivation is not now remunerative, and as they have turned out to be injurious to coffee when they are planted as shade trees.

(c) The increase from 50,350 in 1890-91 to 159,502 is due not to any actual increase in the cultivation but to the supply of more complete information from the planters concerned.

Recd
7/28/92