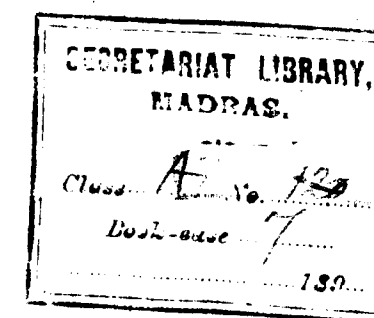




ANNUAL

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ADMINISTRATION REPORT

OF

THE FOREST DEPARTMENT

MADRAS PRESIDENCY,

FOR THE

FIFTEEN MONTHS ENDING 30TH JUNE 1893.

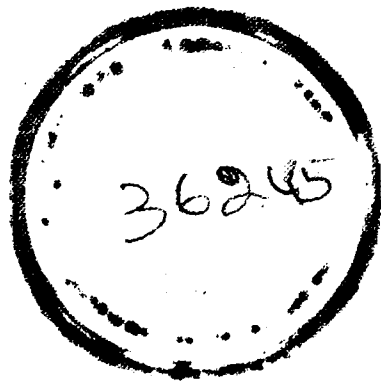
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PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE MADRAS PRESIDENCY

FOR THE FIFTEEN MONTHS ENDING 30TH JUNE 1893.

CHAPTER I.

INTRODUCTORY.

The new Forest year.—Under the orders of the Government of India, a special forest year extending from 1st July to 30th June has been substituted for the official year hitherto adopted as the period for the submission of the Forest Administration Report. Accordingly this report embodies the transactions of the fifteen months from 1st April 1892 to 30th June 1893.

2. *Principal administrative changes.*—The principal administrative change during the year was the transfer of the audit of forest accounts from the Examiner of Forest Accounts to the Accountant-General, with effect from the 29th March 1893. Consequent on this change, a systematic inspection of the accounts of the District Forest-offices by the Local Fund inspecting staff of the Accountant-General's office has been ordered commencing from 1892-93, the pending audits of the accounts of previous years being ordered to be made by the Treasury Deputy Collectors with the aid (where necessary) of special accountants sanctioned temporarily for this purpose.

Rules under the Forest Act.—The revision of the rules under section 26 of the Forest Act engaged the attention of the Board during the period under report. A set of draft rules was drawn up and circulated to Conservators; their remarks have since been received and will be shortly considered.

3. *Visit of the Inspector-General of Forests.*—The Inspector-General of Forests to the Government of India paid a visit to this Presidency in March 1893 and conferred with the Board and Conservators on the forest policy of the Madras Government and the introduction of working plans in this Presidency.

4. *Tours of the Forest Member.*—The Board's Forest Member made tours of inspection to the Gôdâvari, Kistna, Kurnool, Anantapur, Coimbatore, Salem, Nilgiri, Madura, Trichinopoly and South Arcot districts, with the special object of enquiring into the progress of selection, settlement and demarcation of reserves.

5. *Conservators' inspections.*—The following abstract shows the names of the Conservators who held charge of the three Circles and the time spent in camp by each of them during the period under report:—

Circle.	Name of Conservator.	Number of days during which he held charge.	Number of days spent in camp.
Northern ..	Mr. Hooper	283	162
Central ..	Mr. Peet	173	93
Southern ..	Mr. Popert	456	268
	Mr. Cherry	456	317

The touring of these officers has generally been satisfactory.

The Board having noticed that the Conservators' inspections had not hitherto been made on any definite system, and that some districts were visited frequently while others were neglected, it was decided that each Conservator should spend not less than three months every half-year in camp and should visit every district in his charge during the year, making a detailed inspection of each district at least once in two years, and submitting half-yearly returns of his tours like Collectors.

During the period under report, Mr. Hooper visited all the districts in the Northern Circle except Ganjam, and submitted notes of his inspection for Vizagapatam, Bellary and Anantapur. Mr. Popert inspected all the districts in his Circle and submitted notes of his inspection for all except South Arcot. Mr. Cherry inspected and reported on the forests of all the districts in his charge except Tinnevely.

Mr. Peet having been on deputation to attend the meeting of the Board of Control of the Dehra Dun Forest School for about a month, was not able to devote as much time to inspection as he might otherwise have done. He, however, conferred with the District Forest-officers of Ganjam, Anantapur, Kurnool, Vizagapatam, Gódvári and Kistna, though he was not able to make a detailed inspection of any of the districts in the Circle.

6. *Tours of District Forest-officers.*—The Board having noticed that District Forest-officers had not been spending as much time in camp as they ought, found it necessary to prescribe a minimum touring period of four months in every half-year (which has been relaxed, however, when exceptional circumstances seemed to render it expedient) and to call for half-yearly returns of the tours made by these officers. The more effective supervision which the Board has been exercising over the movements of District Forest-officers has produced satisfactory results.

Of the Forest-officers who during the fifteen months under review held charge of a district for three months and upwards, the undermentioned officers spent less than half their time in camp:—

	Percentage of time spent in camp.
Mr. H. H. Ward (Gódvári)	34.7
„ P. M. Lushington (Kurnool)	31.4
„ T. N. Hearsey (do.)	31.3
„ E. R. Murray (do.)	45.7
„ J. H. B. Brougham (Nellore)	49.5
„ Eber Hardie (North Malabar)	43.9

Of these, Messrs. Ward, Hearsey and Murray have submitted no explanation as to their short touring. The Board trusts that better results will be shown in the current year. Mr. P. M. Lushington's touring in Gódvári where he was subsequently transferred, was satisfactory. Mr. Brougham's shortcoming in this respect was animadverted upon in the previous year, but without any satisfactory improvement during the period under report. The attention of the Collector of Nellore is drawn to this point. Mr. Eber Hardie's short touring was due to ill-health.

The rules regarding the inspection of ranges by District Forest-officers twice in the year do not appear to have been universally observed. The attention of all Collectors will be drawn to this important matter.

7. *Reorganization of the Subordinate Staff.*—Further correspondence on this important subject occurred during the year, and the Board's final proposals in respect to the executive and clerical establishments were approved by the Madras Government in November 1892 and May 1893, respectively, and were submitted to the Government of India. The Secretary of State's sanction has, however, not yet been accorded, and forest work is everywhere hampered and delayed in consequence. The areas of the Government forests are daily increasing, but if the staff necessary to properly work them and to select, demarcate and map out new areas is not employed in time, the loss of revenue will undoubtedly be serious; all the more so as Government has lately ruled that "Forests" can only be credited with the receipts from trees, &c., actually under the supervision of the department.

8. Of the 23 District Forest charges, twelve were in charge of Deputy Conservators, six in charge of Assistant Conservators and five in charge of Extra Assistant Conservators on the last day of the period under report.

CHAPTER II.

AREAS AND BOUNDARIES.

9. The following statement shows the areas of reserved forests and reserved lands at the commencement and at the close of the period under report:—

ABSTRACT A.—Classes and areas of forests in square miles.

Class of forests.	Area on 1st April 1892.*	Added during the year 1892-93 (from 1st April 1892 to 30th June 1893).	Excluded during the year 1892-93 (from 1st April 1892 to 30th June 1893).	Net increase or decrease.	Area on 30th June 1893.	Source or cause of increase or decrease.
<i>Northern Circle.</i>	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	
Reserved forests	2,202	1,054	2	+ 1,052	3,254	1,054 square miles transferred or added from reserved lands and 2 square miles deducted by rectification of areas.
Do. lands	2,661	703	1,067	— 364	2,297	662 square miles new areas, and 41 square miles by rectification of areas added; 9 square miles by rectification of areas, 4 square miles by exclusions at settlement and 1,054 square miles by transfer to reserved forests deducted.
Total	4,863	1,757	1,069	+ 688	5,551	
<i>Central Circle.</i>						
Reserved forests	2,430	1,277	..	+ 1,277	3,707	1,277 square miles transferred or added from reserved lands.
Do. lands	3,653	178	1,319	— 1,141	2,512	102 square miles new areas, 72 by rectification of areas and 4 at settlement added; 14 square miles by rectification of areas, 15 square miles by exclusion at settlement, 13 square miles by disafforestation and 1,277 square miles by transfer to reserved forests deducted.
Total	6,083	1,455	1,319	+ 136	6,219	
<i>Southern Circle.</i>						
Reserved forests	2,543	110	178	— 68	2,475	110 square miles transferred or added from reserved lands and 178 square miles deducted by rectification of areas.
Do. lands	3,090	194	342	— 148	2,942	190 square miles new areas, and 4 by rectification of areas added, 10 square miles by rectification of areas, 222 by disafforestation and 110 square miles by transfer to reserved forests deducted.
Total	5,633	304	520	— 216	5,417	
<i>Total.</i>						
Reserved forests	7,175	2,441	180	+ 2,261	9,436	
Do. lands	9,404	1,075	2,728	— 1,653	7,751	
Grand Total	16,579	3,516	2,908	+ 608	17,187	

* The areas exhibited in the last year's statement under "other forests" have now been omitted under the instructions of Government (paragraph 8 of its review of the Forest report for 1891-92) as not being under the control of the Department.

The increase in the area of reserved forests is mainly the result of the notification of large areas in Kistna, Bellary, Cuddapah, North and South Arcot and Salem. The decrease in the Southern Circle is nominal, being due to the rectification of the areas of reserved forests as ascertained by the Survey Department. The decrease under reserved lands is due to the transfer of 2,441 square miles to reserved forests, which was partly counterbalanced by the constitution of new areas as reserved lands mainly in Vizagapatam, Kistna, Kurnool and Madura.

10. The total area of each district and of the reserved forests and reserved lands therein is shown in the subjoined statement:—

Abstract B.—District areas and forest reserves in square miles.

Districts.	Particulars of remaining area in column 8.					Forests under the control of the Forest Department.			Percentage of column 10 to column 8.	
	Total district area excluding feudatory and tributary states.	Area excluding seminary and whole ham villages.	Cultivated area.	Unutilized forest area.	Area for which returns are not available.	Total of columns 5 and 6.	Reserved forests under Act V of 1882.	Reserved lands.	Total of reserved lands and 9.	Percentage of column 10 to column 8.
1	2	3	4	5	6	7	8	9	10	11
Northern Circle.										
Ganjām	8,369	4,079	582	1,280	2,237	3,497	114	453	567	18.9
Vizagapatam	17,242	1,873	234	1,881	907	2,788	24	279	303	22.0
Godāvari	7,866	3,823	1,584	1,831	468	3,299	442	572	1,014	26.6
Kistna	8,397	5,414	3,109	2,805	..	2,805	633	222	855	44.1
Anantapur	3,287	4,321	1,702	2,217	402	2,619	101	299	400	15.7
Bellary	5,900	4,686	2,492	2,164	..	2,164	214	292	506	37.0
Kurnool	7,514	5,924	1,834	4,076	..	4,076	1,726	180	1,906	16.2
Total	60,574	29,520	11,426	14,086	4,014	18,094	3,254	2,297	5,551	23.3
Central Circle.										
Nellore	8,765	4,045	1,569	2,394	92	2,486	341	248	589	23.7
Cuddapah	8,731	7,496	1,961	5,535	..	5,535	965	1,102	2,067	37.3
Chingleput	2,840	2,061	896	1,155	..	1,155	155	57	212	18.3
North Arcot	7,497	3,763	1,179	2,589	..	2,589	638	308	946	36.4
South Arcot	5,211	4,726	2,233	2,417	76	2,493	385	417	802	32.1
Tanjore	8,759	2,485	1,717	768	..	768	16	8	24	3.1
Trichinopoly	8,631	2,683	1,635	894	154	1,048	190	49	239	22.8
Salem	7,471	5,380	1,569	3,361	..	3,361	967	823	1,790	38.3
Total	47,855	32,564	13,149	19,113	822	19,935	8,707	2,512	6,219	31.9
Southern Circle.										
Madura	8,808	3,196	1,516	1,952	428	1,580	479	188	667	37.9
Tinnevely	5,384	3,608	2,286	1,222	..	1,222	410	1	411	33.6
Coimbatore	7,940	7,157	3,727	3,250	190	3,440	1,063	1,272	2,335	67.8
Nilgiris	957	7,957	3,225	632	..	632	233	175	408	64.5
Makhar	6,659	5,465	1,475	4,090	..	4,090	190	412	602	14.7
South Canara	3,902	3,883	634	3,249	..	3,249	100	924	1,024	31.5
Total	39,600	24,276	9,963	13,695	618	14,313	2,476	2,942	5,417	37.8
Grand Total	140,929	86,360	34,538	46,888	4,954	51,842	9,436	7,751	17,187	33.1

* These are the revised figures furnished by the Settlement Department.

It will be observed from the above statement that the area of forests under the control of the Forest Department in this Presidency is 33.1 * per cent. of that still at the disposal of Government and 19.9 * per cent. of the total area of Government

* The larger percentage given in last year's report included "other forests" now omitted—vide foot-note to statement in paragraph 9.

lands including the cultivated area; and is fairly distributed among the three Circles, though it varies largely in the different districts. It is particularly large in Coimbatore and the Nilgiris; but very small in Tanjore, Malabar, Anantapur, Ganjām and Chingleput. The Nilgiris is essentially a forest district. The reservation of large blocks in the Kollegal, Satyamangalam and Bhavani taluks in North Coimbatore and in the Anamalais and in the Bolampatti valley in South Coimbatore has contributed to the high percentage. As observed in the report of the previous year, the area available for reservation in Tanjore is very insignificant. The same is the case with Malabar and the non-Agency parts of Ganjām. The survey of the Anantapur district not being completed, some difficulty has been experienced in the selection of reserves in that district. When the reserves are completely selected and notified, the area of forests under control will be largely increased. In Chingleput, owing to the unsuitability of the greater portion of the waste land for forest purposes, the total extent available for reservation has been fixed at about 281 square miles, of which 212 square miles have already been brought under control, and steps are being taken to bring the remainder under reservation.

11. The subjoined statement shows the areas finally constituted into reserved forests in the fifteen months under report as compared with that in the year preceding:—

Abstract C.—Reserved Forests in square miles.

Districts.	Prior to 1891-92.	During 1891-92.	During 1892-93 from 1st April 1892 to 30th June 1893.	Total.
Northern Circle.				
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Ganjām	85	29	..	114
Vizagapatam	4	10	10	24
Godāvari	345	73	24	442
Kistna	346	106	181	633
Anantapur	14	17	70	101
Bellary	77	28	109	214
Kurnool	242	826	658	1,726
Total	1,113	1,089	1,052	3,264
Central Circle.				
Nellore	169	94	78	341
Cuddapah	356	58	551	965
Chingleput	126	20	9	155
North Arcot	430	83	175	688
South Arcot	148	16	221	385
Tanjore	9	..	7	16
Trichinopoly	141	18	31	190
Salem	684	78	205	967
Total	2,063	367	1,277	3,707
Southern Circle.				
Madura	379	88	12	479
Tinnevely	428	139	157†	724
North Coimbatore	119	366	12	497
South Coimbatore	566	..	..	566
Nilgiris	201	6	26	233
North Malabar	119	..	32	151
South Malabar	39	..	..	39
South Canara	85	8	7	100
Total	1,936	607	68	2,476
Grand Total	5,112	2,063	2,261	9,436

† Twenty-one square miles were added to the reserved forests, but 178 square miles had to be deducted in consequence of rectification of areas due to survey map measurements.

The period under review shows a great increase of reservation (as compared with 1891-92) in the Central Circle where large areas were notified in Cuddapah, North and South Arcot and Salem.

Leaving out of account the deduction on account of rectification of area, the actual increase to the area of reserved forests in the Southern Circle is 110 square miles against 607 in the previous year. The decrease in progress occurred mainly in the Madura, Tinnevely and North Coimbatore districts. In *Madura* only a small area remained to be finally notified at the beginning of the period under report and most of the blocks notified under section 4 during the period were not notified under section 16 before its close. In *Tinnevely* there was only one block under settlement at the end of the previous year, which was finally notified during the period under report, and no new blocks were placed under settlement. In *North Coimbatore*, certain large blocks were constituted reserved forests in the previous year, while only small blocks were dealt with in the period under review.

12. The statement prescribed by the Government of India to show the progress made in forest settlement is given below :—

ABSTRACT D.

Circle.	Area of reserved lands—vide abstract A above.					Area brought under Chapter II of the Madras Forest Act.				
	On 1st April 1892.	Added during 1892-93 (from 1st April 1892 to 30th June 1893)	Total.	Excluded during the year (mainly by reason of constitution as reserved forests).	Balance at the end of the year.	Area notified under section 4 on the 1st April 1892.	Added during 1892-93 (from 1st April 1892 to 30th June 1893).	Total.	Notified under section 16 during 1892-93.	Balance notified under section 4 but not settled.
	SQ. MS.	SQ. MS.	SQ. MS.	SQ. MS.	SQ. MS.	SQ. MS.	SQ. MS.	SQ. MS.	SQ. MS.	SQ. MS.
Northorn	2,661	703	3,364	1,067	2,297	2,583	573	3,156	1,052	2,104
Central	3,653	178	3,831	1,319	2,512	3,110	383	3,493	1,277	2,216
Southern	3,090	194	3,284	342	2,942	1,512	182	1,694	110	1,762
Total	9,404	1,076	10,479	2,728	7,751	7,205	1,138	8,343	2,261	6,082

* The balance at the end of 1891-92, as shown in the report for that year, is 1,691 square miles. The difference between that figure and this is due to the rectification of the areas of certain blocks.

† This deduction represents the decrease due to the revised estimate of the areas of certain blocks notified in previous years.

‡ The balance at the end of 1891-92, as shown in the report for that year, was 10,708 square miles. The difference between that figure and this is due to the exclusion of "other forests."

The progress, it will be observed, is satisfactory, as the area under settlement at the close of the period under report is smaller than that at its beginning, notwithstanding the fact that a larger area was brought under settlement during that period than in the twelve months preceding it.

13. The statement in appendix A shows the area of lands under settlement and the area finally notified in each district during the period under report as compared with those in the twelve months preceding it, as well as the particulars of the area under settlement on the 30th June 1893.

14. The number of blocks pending settlement at the close of the preceding year was

(A) Notified under section 4 as per statement in appendix A, columns 2 to 5 :—

	Number of blocks.	Area.
Up to 1891-92	1,392	13,961
During "	130	419
Total	1,522	14,380

604 covering an area (as now ascertained) of 7,205 square miles; to these were added during the period under report 358 blocks with an area of 1,138 square miles, making a total of 962 blocks having an area of 8,343 square miles. Of these 287 blocks with an area of 2,261 square miles were notified under section 16, leaving a balance of 675 blocks with an area of

(B) Notified under section 16 as per statement in appendix A, columns 10 to 13—

	Number of blocks.	Area.
Up to 1891-92	712	5,112
During "	206	2,063
Total	918	7,175
Balance (A)—(B)	604	7,205

6,082 square miles at its close. Of these blocks, 95 (735 square miles) were notified under section 16 during the period under report, though their reservation took effect subsequent to its close; and 36 blocks (384 square miles) were pending scrutiny in the Board's office. The reports of 55 blocks (1,198 square miles) had been returned to Collectors for revision and 131 blocks (2,140 square miles) have been settled, but have not been reported

on. The remaining 358 blocks (1,625 square miles) were pending with Forest Settlement-officers in various stages of settlement. More than half the total number of pending blocks were, it will be seen, notified under section 4 only during the period under report. It is gratifying to note that some of the oldest blocks in Nellore, Cuddapah, Kistna, Kurnool, Bellary and Salem were notified during the period. This, the Board has no doubt, is mainly due to the careful scrutiny which the weekly and monthly reports of the Forest Settlement-officers have undergone in the Board's office, and to recent consolidation and amendment of the rules regarding forest settlement, by which the procedure in regard to the preparation of maps to accompany notifications has been considerably simplified; as also to the fact that the Forest Settlement-officers have been ordered to assist the District Forest-officers, as far as possible, in the preparation of maps and boundary descriptions for which several of these blocks were waiting. Nevertheless there are still several blocks which have been pending for more than six years, mainly in Ganjam, Bellary, Anantapur, Nellore, Cuddapah and North Malabar. Reports for some of the long-pending blocks in *Ganjam* were received in the Board's office, but had to be returned as the Conservator reported that the settlement work had not been properly done in the Goomsur division. The sketch-maps originally submitted for these having been found to be useless, it is reported that fresh ones are under preparation. Most of the oldest blocks in *Bellary* are those pending with the Deputy Collector, Adoni division, who as a Revenue Divisional officer has not had sufficient time to devote to this work. The Board is now getting fortnightly reports of the progress made by this officer with a view to see that there is no avoidable delay on his part. The Collector of *Anantapur* will be requested to take early steps to get the long-pending blocks in his district notified. The old blocks pending in *Cuddapah* are mostly awaiting the preparation of correct sketch-maps, while those in *Nellore* and *North Malabar* are pending decision of appeals in the District Courts against Forest Settlement-officer's decisions. The general reason for the delay in the case of the blocks that have been long pending and which are mostly in unsurveyed tracts is that the maps submitted with the initial notifications under section 4 are found to be useless for the purpose of the final notifications and fresh maps have to be prepared, entailing a detailed survey of the boundary lines. This, under the recent orders which provide for the preparation of accurate maps at the outset, will not occur in the case of the blocks now being notified.

15. Compared with the year preceding, the total number of blocks not finally constituted reserved forests shows an increase, but their aggregate area shows a falling off, as will be seen from the following table :—

Year.	Settled and reported on but not finally notified.		Under settlement.		Total.	
	Number.	Area.	Number.	Area.	Number.	Area.
1891-92	266	3,613	341	3,771	(a) 607	(a) 7,384
1892-93	186	2,317	489	3,765	675	6,082
Difference	- 80	- 1,296	+ 148	- 6	+ 68	- 1,302

(a) These are the figures given in the Administration Report for 1891-92. They are reported to be incorrect. The correct figures as now reported by collectors are 604 blocks and 7,205 square miles.

A statement showing the cause of delay in the case of these blocks will be found in appendix B.

16. *Selections for further reservation.*—Considerable progress is being made in the selection of lands for reservation. The Board has been getting monthly returns of the progress made in this respect which are scrutinised and reviewed in its office. The area brought under settlement during the fifteen months under report was 1,138 square miles against 419 in the preceding 12 months. There is still, however, much to be done, mainly in Kistna, Anantapur, Bellary and Kurnool in the Northern Circle and in Nellore, Cuddapah, Chingleput and Trichinopoly in the Central Circle. In North Arcot and Salem, the selections have been completed; but the areas could not be notified owing to want of maps. The Conservator, Central Circle, is of opinion that to insist on the submission of accurate maps with the initial notification would result in retarding the progress of selection and settlement, and thinks that rough sketch-maps would answer the purpose. This argument has been examined and refuted by the Board in its Proceedings, dated 24th August 1893, Forest No. 623, in reply to a similar remark made by the Government of India in reviewing the Administration Report for 1891-92, and its views have received the concurrence of Government. In the Nilgiris, the only work to be done consists in bringing under settlement the village forests which have been already selected. In South Canara the Collector estimates that the work will take three years more, as there are yet 200 square miles to be selected and preliminarily demarcated.

17. The subjoined statement shows the work turned out by the Special Forest Settlement-officers during the period under review:—

ABSTRACT E.—Outturn of work by Special Forest Settlement-officers during 1892-93.

Name of Special Forest Settlement-officer.	Districts.	Issue of proclamation after notification under section 4.		Settlement of claims.		Report after settlement submitted.		Final notification proclaimed.		Cost.
		Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	
1	2	3	4	5	6	7	8	9	10	11
M.R.Ry. D. Jagannadha Row up to 10th June 1892 and Mr. J. T. Lever from 6th August 1892.	Godavari	34	58	18	180	16	167	7	84	11,136
	Kistna	16	136	8	33	..	..	7	184	
	Kurnool	..	..	..	..	..	..	..	..	
	Total	50	194	26	213	16	167	14	268	
M.R.Ry. C. Somasundara Sastri and M.R.Ry. S. Venotaramdos Naidu, the latter from 21st September to 24th December 1892.	Anantapur	5	9	18	151	24	177	17	81	13,375
	Bellary	22	61	14	109	17	94	26	109	
	Nellore	..	..	2	70	..	..	9	78	
	Total	27	70	34	330	41	271	52	268	
Mr. W. C. McMurray ..	Cuddapah	18	96	16	34	51	284	70	684	14,520
	North Arcot	15	67	4	32	18	210	22	213	
	South Arcot	9	6	1	3	..	..	..	..	
	Salem	..	..	2	15	15	118	22	197	
	Total	42	169	22	81.3	84	612	114	1,094	
M.R.Ry. C. Raju Sastri ..	South Arcot	48	150	1	9	7	17	16	72	13,818
	Tanjore	..	..	..	..	..	..	1	3	
	Trichinopoly	..	..	..	..	..	..	2	11	
	Madura	83	150	37	53	20	22	3	11	
	Tinnevely	..	..	..	..	..	..	..	..	
	Coimbatore	3	20	6	5	30	227	44	312	
	Total	134	320	44	67	87	266	66	409	
Grand Total		253	753	126	691.3	198	1,316	246	2,036	52,849
In 1891-92		95	896	166	1,702	122	1,518	164	2,765	44,116

* M.R.Ry. D. Jagannadha Row's work has not been separately reported.

Judged by the area of blocks in which claims were settled during the period under report, M.R.Ry. C. Somasundara Sastri has done the largest amount of work, though for about three months and-a-half he was absent on other duty in the Board's office and his *locum tenens* did very little during his absence. Taking into consideration the area of blocks for which reports were submitted, Mr. McMurray has done the largest amount of work; but it must be remembered that most of the blocks in Cuddapah reported on during the year had been practically settled in previous years and were merely awaiting the preparation of sketch-maps and boundary descriptions. An explanation called from and submitted by Mr. Lever with reference to his very poor outturn is now under the Board's consideration. Compared with the work turned out in the twelve months preceding the period under report, there has been a general falling off in the total area settled and reported on by the Special Forest Settlement-officers, but it must be remembered that the figures of 1891-92 included the areas of certain large blocks in Kurnool and Coimbatore notified in that year. Application was made for the appointment of a Special Forest Settlement-officer for the Ganjam and Vizagapatam districts, where settlement work is now in a very backward state; but the proposal was negatived by the Secretary of State.

18. The subjoined statement shows the work turned out by Revenue Divisional officers who were entrusted with forest settlement work:—

ABSTRACT F.

District.	Name of officer.	Blocks pending with Forest Settlement-officers at the beginning of 1892-93.		Added during 1892-93.		Total.		Disposed of during 1892-93.		Blocks pending with Forest Settlement-officers at the end of 1892-93 (from 1st April 1892 to 30th June 1893).	
		Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
Ganjam	Principal Assistant Collector	9	6	..	..	9	6	..	..	9	6
	Senior Assistant Collector	3	22	14	10	17	32	..	..	17	32
	General Deputy Collector, Goomsur	16	327	8	81	24	408	1	4	23	403
	Total	28	355	22	91	50	446	1	4	49	441
Godavari	Sub-Collector (a)	1	8	..	..	1	8	1	8	..	..
	Special Assistant Collector (a)	2	182	..	..	2	182	..	..	2	182
	Total	3	190	..	..	3	190	1	8	2	182
Vizagapatam	Principal Assistant Collector	3	52	4	4	7	56	3	30	4	26
	Head Assistant Collector	7	30	9	203	16	233	4	10	12	223
	Total	10	82	13	207	23	289	7	40	16	249
Bellary ..	Deputy Collector, Adoni (a) ..	8	31	..	..	8	31	2	6	6	25
Chingleput ..	Mr. Pinto	41	30	44	17	85	47	24	15	61	32
Nilgiris ..	Head Assistant Collector ..	15	79	8	16	23	95	11	10	12	85
Coimbatore ..	Head Assistant Collector ..	..	..	4	8	4	8	..	..	4	8
Malabar	Sub-Collector	1	40	..	..	1	40	..	..	1	40
	Special Assistant Collector ..	14	200	..	..	14	200	(b) 29	(c) 2	14	171
	Deputy Collector, Wynad ..	5	160	..	..	5	160	(d) 2	(e) ..	3	160
	Total	20	400	..	..	20	400	2	29	18	371
South Canara	Head Assistant Collector ..	6	9	1 (e) ..	..	7	9	6	8	1	1
	General Duty Deputy Collector	2	35	..	..	2	35	..	(b) 6	2	29
	Total	8	44	1	..	9	44	6	14	3	30

(a) This was omitted in the report for 1891-92.

(c) The area being less than a square mile has been omitted.

(b) Rectification of area.

(d) Unreserved or abandoned.

The results in the first two districts are very poor, but so long as Divisional officers, with their multifarious duties, are entrusted with this important work, delay and errors are almost unavoidable. In the Nilgiris, on the other hand, the work done by Mr. H. V. Cobb, I.C.S., is satisfactory and deserves special mention.

19. The area of reserved lands not brought under settlement is shown in Appendix C.

The areas not yet brought under settlement are considerable in Kistna, Bellary, Cuddapah, Salem, North Coimbatore, Nilgiris and South Canara. The whole of the balance shown against Kistna was constituted into reserved lands only during the period under report. The Collector should take early steps to have it notified for settlement. In Cuddapah and North Coimbatore, the areas awaiting notification under section 4 of the Act are less than the corresponding areas in the preceding year; but in Bellary, Salem, and South Canara they are substantially the same as in the preceding year. The Collector of Bellary has furnished no explanation for this want of progress. The Collectors of Salem and South Canara state that the necessary steps are being taken to get notifications out. The area outstanding in the Nilgiris represents the Madumalai leased forest and the Toda-patta lands which it is not intended to bring under settlement.

20. Demarcation.—The subjoined statement shows the length of boundaries preliminarily and permanently demarcated up to and during the period under report and the total and average cost:—

ABSTRACT G.—Demarcation work done during 1892-93.

	PRELIMINARY.						PERMANENT.						Total expenditure upon demarcation to end of 1892-93.
	To end of 1891-92.			During 1892-93.			To end of 1891-92.			During 1892-93.			
	Miles.	Cost.	Average cost per mile during 1891-92.	Miles.	Cost.	Average cost per mile during 1892-93.	Miles.	Cost.	Average cost per mile during 1891-92.	Miles.	Cost.	Average cost per mile.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Northern Circle.													
Ganjam ..	(a) 22	62	RS. A. P.	RS.	RS. A. P.	RS.	RS. A. P.	RS.	RS. A. P.	RS.	RS. A. P.	RS.	RS. A. P.
Visagepetam ..	23	47	2 0 8	84	6 0 0	899	7 13 1	13,338	7 13 1	31	209	6 11 10	13,693
Godavari ..	498	2,641	3 4 8	62	1 0 7	55	9 8 5	302	9 8 5	46	601	10 14 3	937
Kistna ..	6	57	.. ..	514	8 4 8	655	0 10 0	7,813	0 10 0	35	298	8 8 3	11,166
Anantapur ..	32	90	2 9 4	204	7 13 0	550	7 1 9	10,680	7 1 9	7	99	14 2 3	12,430
Bellary ..	40	71	0 3 2	62	16 10 8	655	10 0 0	9,205	10 0 0	(b) 15	1,690	(c) 112 10 8	11,036
Kurnool ..	(a) 762	11,518	7 0 11	230	0 9 3	338	29 5 4	3,129	29 5 4	14	1,160	11 6 10	4,396
Total ..	1,372	14,356	5 5 7	659	2 6 6	3,152	4 7 10	44,467	4 7 10	292	4,117	14 9 7	65,899
Central Circle.													
Nellore ..	(a) 252	1,081	.. ..	..	.. ..	(a) 802	5 14 11	5,974	5 14 11	87	548	6 4 9	7,603
Cuddapah ..	(b) ..	..	.. ..	..	.. ..	(b) 1,129	11 11 11	21,953	11 11 11	238	(d) 4,696	19 11 8	26,733
Chingleput ..	..	189	.. ..	110	4 7 9	404	32 9 7	10,332	32 9 7	82	1,146	13 15 7	12,760
North Arcot ..	(a) 402	3,792	9 8 3	28	14 0 0	772	14 7 5	9,837	14 7 5	763	13,978	18 5 1	27,999
South do. ..	446	986	2 7 5	404	9 85	292	1 14 4	1,626	1 14 4	227	1,768	7 12 7	5,365
Tanjore ..	142	124	0 13 11	181	0 7 8	..	.. ..	(a) 200	.. ..	38	208	5 7 7	619
Trichinopoly ..	324	868	9 7 4	149	10 3 8	101	62 7 10	914	62 7 10	113	1,156	10 3 6	4,461
Salem ..	430	199	.. ..	234	1 10 7	1,850	.. ..	19,304	.. ..	219	2,237	10 3 5	22,129
Total ..	1,996	7,249	5 8 1	1,175	3 6 0	5,350	16 1 7	70,740	16 1 7	1,767	26,736	14 9 0	1,07,689
Southern Circle.													
Madura ..	(a) 6	570	.. ..	..	.. ..	(a) 931	18 13 1	19,815	18 13 1	78	2,165	27 12 4	21,981
Tinnevely ..	(b) 701	5,772	6 8 1	84	4 13 1	(b) 931	27 12 7	10,123	27 12 7	494	6,094	12 5 5	15,840
North Coimbatore ..	..	..	.. ..	15	16 5 8	(a) 299	11 3 1	2,680	11 3 1	70	933	13 5 3	10,073
South do. ..	..	..	.. ..	..	.. ..	364	21 8 3	7,219	21 8 3	53	1,923	36 4 6	9,227
Nilgiris ..	..	..	.. ..	..	.. ..	941	23 13 4	21,774	23 13 4	16	1,774	110 14 0	23,652
North Malabar ..	31	139	.. ..	8	5 0 0	266	20 13 0	3,698	20 13 0	40	1,321	33 0 5	4,528
South do. ..	(b) 50	163	.. ..	11	12 5 10	34	6 12 0	570	6 12 0	..	886	22 9 1	5,308
South Canara ..	617	619	0 14 4	664	0 9 11	(b) 193	27 5 1	3,444	27 5 1	..	895	19 1 6	92,378
Total ..	1,405	7,263	5 12 7	793	2 8 7	4,386	20 2 8	68,667	20 2 8	789	15,046	15 13 3	2,65,956
Grand Total ..	4,773	28,898	5 8 4	2,627	3 6 2	12,868	14 11 4	1,83,264	14 11 4	2,837	44,899	15 13 3	2,65,956

(a) The difference between these and the closing balances of 1891-92 as per Administration Report for that year have not been explained by Collectors.
(b) Previous year's figures were incorrect. (c) Stone walls were erected as a famine work; hence excessive cost. (d) Includes money spent on stone walls constructed as famine relief works.

21. *Preliminary demarcation—Progress up to the end of June 1893.*—The length of boundary preliminarily demarcated in each district up to the 30th June 1893 is shown below :—

	MLS.		MLS.
Ganjām	36	Trichinopoly	473
Vizagapatam	107	Salem	664
Gódvári	560	Madura	17
Kistna	209	Tinnevelly	785
Anantapur	35	North Coimbatore	15
Bellary	102	South do.	39
Kurnool	982	Nilgiris	61
Nellore	252	North Malabar	1,281
Cuddapah	69	South do.	
Chingleput	110	South Canara	
North Arcot	430	Total	7,400
South do.	850		
Tanjore	323		

The outturn in the marginally-noted districts up to 30th June 1893 was

Ganjām.	Chingleput.	very small ; while in Madura and Nilgiris
Vizagapatam.	Tinnevelly.	no work at all was done. In all these
Anantapur.	South Coimbatore.	districts the practice prior to 1891 was to
Bellary.	North Malabar	demarcate blocks permanently even before
Cuddapah.	South do.	they were finally constituted reserved
		forests.

Work done during the fifteen months under report.—In Ganjām, Vizagapatam, Gódvári, Coimbatore, Malabar and Madura the area of forests for further reservation was small ; and hence the small outturn of work during the period under review in the first five districts, and the absence of any work in the last. The short work in Anantapur and Cuddapah and the absence of any work in Nellore during the period have not been explained. In Bellary the short work is attributed to insufficiency of establishment. In North Arcot and Nilgiris, blocks have been permanently demarcated at the outset, as no alterations of boundaries are expected to be made at settlement. In Tinnevelly the surveyed fields being generally adopted as boundaries, the necessity for preliminary demarcation on a large scale did not arise.

The cost per mile of preliminary demarcation is high in Anantapur, North Arcot, North Coimbatore and South Malabar. In the first three districts the rates of 1892-93 are, moreover, higher than in the previous year. In South Malabar 7 miles of boundary had to be cleared in the ghaut reserves, where the cost of the work was excessive. The other Collectors have not reported the cause of the high rates. The omission should be supplied.

22. *Permanent demarcation.*—The length of boundary permanently demarcated up to 30th June 1893 in each district was as follows :—

	MLS.		MLS.
Ganjām	930	Trichinopoly	214
Vizagapatam	101	Salem	2,069
Gódvári	690	Madura	1,496
Kistna	557	Tinnevelly	1,425
Anantapur	670	North Coimbatore	299
Bellary	472	South do.	417
Kurnool	14	Nilgiris	957
Nellore	889	North Malabar	296
Cuddapah	1,367	South do.	34
Chingleput	486	South Canara	230
North Arcot	1,535	Total	15,705
South do.	519		
Tanjore	38		

The outturn of work up to 30th June 1893 is very small in Vizagapatam, Kurnool, Tanjore and South Malabar ; but in all these districts except Kurnool, the area of reserved forests is also small. In Kurnool no permanent demarcation was done previous to the period under report and then only one block was permanently demarcated. In Anantapur and Cuddapah stone walls were constructed round certain reserves as famine works during the period under report ; but in the latter district, the length and cost of this work have not been separately reported. The small outturn during the period in Gódvári and Nilgiris is due to the fact that almost all

the reserved forests had been permanently demarcated in previous years. In South Malabar no work was done during the period under report, as there were no reserved forests remaining to be permanently demarcated.

The Board is now getting monthly returns of the preliminary and permanent demarcation done in each district, and will see that arrears, wherever they exist, are brought up as soon as possible.

The cost of permanent demarcation is extraordinarily heavy in the Nilgiris. But if the cost of renewing old pillars (Rs. 1,402), which is included in this item is excluded, the rate per mile comes to about Rs. 23. Compared with the previous year, the rates are very much higher in Gódvári, Kistna, Cuddapah, North Arcot, Madura, South Coimbatore and North Malabar. The increase in Gódvári is due to the fact that the work done in 1891-92 consisted merely of fencing and ditching, while in the period under report, the cost of erecting boundary marks and of line-clearing has been included ; and in Kistna to the fact that the work done in 1891-92 consisted merely of the erection of boundary marks, without line-clearing, over a portion of the boundary. In Cuddapah the expenditure during the period under report includes the cost of erecting stone walls which has not been separately reported. In North Arcot it is said that part of the work formerly done by the Sub-Assistant Conservator was found to be faulty, and had to be done over again. The increase in Madura has not been explained. In South Coimbatore and North Malabar the amount expended during the period under review included the cost of widening and reclearing old lines the length of which has not been included in the outturn. In Bellary, Salem and Tinnevelly the decrease in the rate has not been explained. In Chingleput it is due to the disuse of ditches on either side of the line.

In South Arcot and South Malabar the system of allowing the contractors employed in demarcation to take the clearings in lieu of money has been introduced ; and in the former district the uprooting of stumps in the lines cleared was insisted on to avoid reclearing in future years. The latter measure should be introduced in other districts, and the introduction of the former considered. In North Malabar the length of demarcated boundary now reported is stated to be incorrect. The matter should receive the Collector's attention, and the correct figures should be ascertained and reported in the next return.

The total amount spent on both kinds of demarcation during the period under report amounted to Rs. 53,794. In addition to this, a large sum was spent on reclearing old lines and replacing boundary marks in several districts (notably in Madura) which has not been shown in the statement.

CHAPTER III.

SURVEYS AND WORKING PLANS.

23. The Survey of India Party worked during the period under review in South Coimbatore, Madura, Salem and North Arcot. In *South Coimbatore* the survey of the Anamalai hills, which had been commenced in the previous season, was completed and the large groups of forests in the western part of the Coimbatore taluk, the Tekadi leased forests and several other reserves were surveyed. In *Madura* triangulation was extended over the north-east and northern parts of the district, while topographical operations were begun in the south, in the neighbourhood of Madura itself, and subsequently followed the course taken by the triangulation party. The survey of the upper Palni plateau still remains to be done in that district, and this will be undertaken in the current year. In *Salem* triangulation was extended over the north-eastern part of the district and into some of the adjoining tracts of North and South Arcot. The actual survey included all the reserved forests on the Shevaroy Hills and some others in the Salem taluk. The operations in *North Arcot* were confined to the preliminary triangulation commenced in the western part of the district and carried in an easterly and southerly direction to connect it with that brought up from Salem. Boundary traversing was not carried out to any great extent during the season, partly for the reason that there was a fair amount in reserve from the work of previous years in the Salem district, and partly in consequence of the forest boundaries in Madura and South Coimbatore having been already determined to a considerable extent by the Madras Revenue Survey Department.

The following table shows by districts the areas completed during the survey year 1892-93 under the different descriptions of survey, as also the total outturn. The computing connected with the area surveyed has been brought up to date :—

Districts.	Triangulation.	Traversing.	Topography.
	SQ. MILES.	LN. MILES.	SQ. MILES.
Madura ..	482	..	147
South Coimbatore ..	..	13	402
Salem ..	1,650	126	239
North Arcot ..	1,298	..	..
Total .. { 1892-93 ..	3,430	139	788
{ 1891-92 ..	1,196	252½	659

The above table shows a very large increase in the area triangulated as compared with the previous year, and though the traversing is less, the topography is 129 square miles more. The outturn is the highest hitherto attained. This is due partly to increased establishment and greater experience on the part of the surveyors, but mainly to a less amount of bad weather (owing to the partial failure of the north-east monsoon) and to the better health of the men.

With the increase in the area, there is a corresponding decrease in the cost rate of the final survey as will be seen from the following table :—

Year.	Topography completed.	Cost rate per square mile.
	SQ. MILES.	RS.
1888-89	168	162
1889-90	214	149
1890-91	465	112
1891-92	659	97
1892-93	788	78
Total	2,294	..

The total cost of the survey including the cost of instruments was Rs. 78,477 for the financial and Rs. 81,840 for the survey year, of which 25 per cent. has to be borne by the Government of India. Maps for 2,279 square miles have been prepared, of which maps for 1,506 square miles have been published, those for the remainder, which was all surveyed between 1st July 1892 and 30th June 1893, are awaiting publication in the Survey of India office, Calcutta.

24. The Survey work undertaken departmentally has not been satisfactory. Every endeavour to procure better men has failed. The Board has, however, quite recently made arrangements with the Superintendent, Madras Survey, to have Foresters trained in survey work and as this is given effect to, the difficulty of getting efficient men will, it is hoped, no longer be felt. The present paucity of establishment stands, however, in the way of the deputation of men on any large scale. The work turned out by the temporary surveyors employed in the several districts was mainly in connection with the selection and settlement of reserves.

The following is an abstract of the information furnished by Collectors as regards the amount of work turned out by the departmental surveyors and draughtsmen in each district :—

Ganjām.—Four blocks to be proposed for reservation were surveyed.

Vizagapatam.—Thirty-four and three-quarter miles of traverse, and 276 acres of area survey and 100 acres of topographical survey were carried out.

Góddavari.—Four thousand two hundred acres in 12 blocks were surveyed and 60 maps prepared.

Kistna.—Maps were prepared for 46 blocks covering an area of 73 square miles, and 110 miles of boundary were surveyed.

Anantapur.—The work turned out by the first surveyor was so bad that it had to be done over again. The present man is employed in surveying new blocks to be proposed for reservation.

Bellary.—One reserved forest and several of the proposed reserves were surveyed.

* Note.—The figure entered in the last Administration Report (440) is reported to be wrong.

Kurnool.—One hundred and fifteen square miles were surveyed. The surveyor being inefficient is unable to prepare maps for the areas surveyed.

Nellore.—Fifty-six square miles of the Sriharikota forest were surveyed for preparing a map to accompany the final notification.

Cuddapah.—A part of the boundary of the Palkonda reserve (5½ miles in length) was surveyed; but the work was very badly done. The surveyor is now dead.

North Arcot.—Thirty-two proposed reserves, having an area of 216·38 square miles, were surveyed.

South Arcot.—Four reserved forests (having an area of 27·38 square miles) were surveyed and mapped.

Trichinopoly.—Twenty-four reserves under settlement were surveyed and re-notified, the original notification under section 4 having been found to be incorrect.

Salem.—Sketch-maps for several proposed reserves were prepared and the hill-villages enclosed in the inner Javadi reserve surveyed.

Madura.—The departmental work was done by the District Forest-officer and the ranger. No special surveyor was employed.

Tinnevely.—Maps were prepared for 55½ square miles in 32 proposed reserves. Missing survey stones in the boundaries of several reserves were replaced. The enclosures, roads, coupes, fire-lines, &c., in the Kuttalam reserve were surveyed and marked in the Government of India Survey maps.

Nilgiris.—The boundaries of the new Porthimund and Bikkapatté reserves were surveyed. The line-clearing in three other reserves was rectified.

South Canara.—One surveyor surveyed 100 square miles and another 63 square miles. They also prepared maps. Owing to the hilly character of the country, no more progress was made.

Four of the finally notified reserves in South Arcot and one in Bellary appear to have been surveyed by means of the temporary surveyors. The Collector should have stated what this survey was undertaken for. In Madura, 6 square miles in seven blocks were surveyed by the Madras Survey Party, eleven blocks with an area of 11 square miles by the District Forest-officer (Mr. Gass) and eight blocks comprising 5 square miles by the Range officer (Mr. O'Neill).

25. The following table compiled from the monthly returns now submitted by Collectors to the Board shows the area of reserved forests for which final maps had been prepared in each district up to 30th June 1893.

Districts.	Area of reserved forests.	Area finally mapped.
	SQ. M.	SQ. M.
Ganjām	113·6	80·4
Vizagapatam	24·0	24·0
Góddavari	441·8	441·8
Kistna	633·0	220·0
Bellary	213·5	..
Anantapur	100·9	66·3
Kurnool	1,726·6	1,726·6
Nellore	340·3	340·3
Cuddapah	965·2	276·6
Chingleput	154·6	57·3
North Arcot	688·4	688·4
South do.	385·3	385·3
Tanjore	16	16
Trichinopoly	190·5	143·3
Salem	966·2	{ 239 (by the Survey of India Party). 727·2 (departmentally).
Madura	478·6	478·6
Tinnevely	410·6	{ 7·6 (departmentally). 403· (by the Survey of India Party).
North Coimbatore	496·5	{ 32·8 (departmentally). 143·0 (by the Survey of India Party).
South do.	566·0	{ 566 (do do).
Nilgiris	233·4	233·4
North Malabar	150·1	33·5
South do.	39·3	39·3
South Canara	99·9	65·3

It will be seen that the work is still very much in arrears in Kistna, Bellary, Cuddapah, North Coimbatore and North Malabar. The Board is getting monthly returns of progress from the Collectors and will take care that the arrears are worked off as soon as possible. The total cost of departmental survey and mapping, including the expenditure incurred on account of working plans during the period under report, amounted to Rs. 25,117.

26. *Working Plans*.—There is not much to record under this head. Little progress can be expected in the preparation of regular working plans until selection and settlement are further advanced and the subordinate staff is increased. District Forest-officers could, in many cases, frame simple plans based upon area, but the staff to carry them out is wanting. In most of the districts, however, statistics and information are being collected for the preparation of working plans when circumstances will permit.

In *Ganjām* the measurements of *sāl* (*Shorea robusta*) have been recorded, and the collection of the statistics of demand and supply for each reserve was continued. In *Kistna*, a permit system modified on the principles of the coupe system has been introduced, and is said to be that best adapted to the circumstances of the district until the subordinate staff is less occupied with demarcation and settlement work. In *North Malabar*, *South Coimbatore*, and *Nellore* coupe lines were cut in certain reserves, and in the last-named district an experimental felling was made in the Gúdūr reserve to ascertain the cost and outturn per acre and the period within which the growth would recover itself. In *Cuddapah* creepers, &c., were cut in some forests and standards marked in others. In *North Arcot* and *Salem* the system of located fellings already introduced has been gradually substituted throughout for the permit system, chiefly owing to the exertions of the District Forest-officers, Messrs. Marshall and Brasier. The same system has also been introduced more or less into *Nellore*, *Chingleput*, *Madura*, *Tinnevely*, *South Arcot* and *Tanjore* and data for future working plans are being collected in all these districts. The enumeration of sandalwood trees ordered by the Conservator in *North Arcot*, *Salem* and *South Arcot* has made no progress, owing, it is said, to want of time on the part of the subordinate establishment. In the *Nilgiris* the Teppakuchi bluegum (*Eucalyptus globulus*) plantation was surveyed for the preparation of a working plan.

27. The provisions of such working plans as already exist appear to have been carried out, with the following exceptions. The plan of the Kojjapalle reserve in *Anantapur* is said to require revision, as the reserve will bear heavier cuttings of palmyra (*Borassus flabelliformis*) than have been allowed for. In the case of the casuarina plantations in *Nellore* and the bluegum (*Eucalyptus globulus*) plantations in the Coonor range in the *Nilgiris*, the full quantity provided in the plan was not extracted, as the wood felled in previous years remained unsold. This want of demand is attributed in *Nellore* to the large number of trees that withered from deficient rainfall and, being brought to sale, over-stocked the market, and to keen competition from private forests in the *Nilgiris*. The provisions of the Morur working plan in *Salem* were not carried out, because no contractors could be got to undertake the fellings.

28. The following working schemes were prepared during the period under report:—(1) a plan for the Narsapur plantation in *Góddavari*; (2) a preliminary working plan for six babul (*Acacia Arabica*) reserves in the Guntur range in *Kistna*; (3) a plan for a portion of the Sandur leased forests (*Bellary*) drawn up by Mr. Hooper under the special orders of Government; (4) a working scheme for the Annamalai reserved forest in *South Arcot*. The last is pending with the Conservator. A scheme for the Chinnar block in *Coimbatore* is also said to be under preparation.

The Collector of *Vizagapatam* states that there are no settled forests in his district sufficiently mature to need working plans. The Conservator remarks, however, that there is no reason why statistics should not be collected for the Peddapalli reserve in the Sarvasiddhi taluk as a preliminary to the preparation of a working plan. This should be done. In *North Arcot* the want of correct survey maps is assigned as the reason for the non-preparation of working plans. This want will, however, be shortly remedied as the Survey of India Party is now engaged in this district.

No satisfactory reasons have been assigned for the want of progress in *Madura*, *Tinnevely* and *North Malabar*, where forest settlement work cannot be said to be heavy at all events for the present. The Collectors of these districts will take steps to form small working circles and prepare rough schemes for short periods which may be useful when the time comes for the preparation of scientific working plans.

CHAPTER IV.

PROTECTION AND IMPROVEMENT.

(a) *Establishment, Ranges and Beats*.

29. The establishment entertained in each Circle was as shown below:—

		NORTHERN CIRCLE.	CENTRAL CIRCLE.	SOUTHERN CIRCLE.	Total.
		1892-93.	1892-93.	1892-93.	
<i>Permanent.</i>					
Controlling staff ..	Conservators	1	1	1	3
	Deputy Conservators	5	6	6	17
	Assistant do.	3	2	3	8
	Extra Assistant Conservators including three Sub-Assistants.	4	5	4	13
Subordinate staff ..	Forest Rangers	15	22	20	57
	Foresters	31	48	48	127
	Forest guards	222	299	210	731
Office establishment ..	Clerks	18	42	45	105
	Peons, &c.	66	70	63	199
Total ..		365	495	400	1,260
<i>Temporary.</i>					
Surveyors	7	4	5	16	
Draughtsmen	7	6	4	17	
Foresters	1	15	..	16	
Overseers	..	1	..	1	
Supervisors	..	4	15	19	
Depôt-keepers	8	11	11	25	
Clerks	7	14	7	28	
Permit-keepers	36	17	10	63	
Guards	25	..	..	25	
Peons	34	6	10	50	
Mahouts	6	..	64	70	
Tannahdars	189	217	183	589	
Maistries	..	12	4	16	
Gardeners	62	61	22	145	
Lascars	6	20	8	34	
Watchers	122	715	207	1,044	
Boat syrang	1	1	1	3	
Total ..		506	1,104	551	2,161

As compared with the previous year there was a decrease of two officers in the Controlling staff due to the retirement of Messrs. H. T. D. Sweet and T. Muhamad Ali Khan Sahib, Assistant Conservators of Forests, and to the fact that no new Assistant Conservators were posted to the Presidency during the period under report. In the subordinate and office establishments there was no change. The temporary establishments for the various Circles were sanctioned with reference to actual necessity and local circumstances.

(b) *General protection and breaches of Forest laws*.

30. The statement in Appendix D shows the number of forest offences reported and the particulars of their disposal.

In paragraph 39 of the Board's report for 1891-92, Collectors were requested to show separately the number of cases sent into Court by the department, the number disposed of by the magistracy and the number pending with the magistrates at the end of the year. No attention has been paid to these instructions by the Collectors of *Ganjām*, *Vizagapatam*, *Kistna*, *Anantapur*, *Cuddapah*, *Madura*, *Tinnevely*, *Coimbatore* (*North*) and *Malabar*. The information should not be omitted in the next report.

31. The number of cases reported during the period under review shows a large increase as compared with the figures of the twelve months preceding it.* The increase is noticeable in all the districts, except *Kurnool*, *Trichinopoly*, *Salem*, *South Coimbatore* and *South Malabar*. The very large increase in *Góddavari* (626 cases in 1892-93 against 29 in 1891-92) is, however,

mostly nominal, being due to the fact that 563 cases of breaches of drift-wood rules, which were not hitherto included in the return of forest offences, have been newly brought to account during the period under report. In the other districts, the increase is partly due to the fact that the present report deals with the transactions of fifteen months, while the previous report related only to twelve. It is also ascribed to more efficient detection in *Anantapur*, *Chingleput*, *Nilgiris* and *South Canara*. The decrease in *Kurnool* is ascribed to inefficient detection chiefly in regard to the Chenchus who set fire to the hill forests. The decrease in *Trichinopoly*, *South Coimbatore* and *South Malabar* is small. In the first of these districts, it is apparently due to want of sufficient supervision by the District Forest-officer over the work of his subordinates; in the second, it is attributed to better prevention; while in *South Malabar*, it is said that the small number of offences detected is due to the fact that the forests are all out of the way and are therefore self-protected. The decrease in *Salem* is ascribed to localization of fellings, to the season having been more favorable, and to the fact that the people have become generally better acquainted with the rules. In *Vizagapatam*, which was the smallest forest area in the Northern Circle, the number of offences is the largest. The Conservator considers that this may be due partly to the resumption of the Palkonda taluk, as, when this taluk was leased, the lessees were not able to control the illicit trade in wood.

Making every allowance for the different circumstances of the various districts, the variations in the number of forest offences reported are in many cases surprising. It is not understood, for instance, why there should be only 78 cases reported in the two *Malabar* districts taken together and 831 in *South Canara*, or, four times as many in *Tinnevely* as in *Madura*. The Conservators are requested to scrutinize the figures of their Circles and investigate the causes of such differences.

32. The percentage of cases withdrawn by the department to the total number of cases disposed of shows a slight increase compared with the previous year (6.7 against 4). The proportion is largest in *South Arcot* (24 per cent. and 333 cases) where it is said that there was great negligence on the part of the Range officers in sending up cases to the magistrates. The Collector has taken steps to avoid a recurrence of this unsatisfactory state of things.

33. The percentage of cases compounded to the total number of cases disposed of shows a slight decrease on the whole (39.2 against 46), though there is an increase in certain districts, notably in *Nellore*, *Chingleput* and *Trichinopoly*. In the last-mentioned district 82 per cent. of the total number of cases were compounded and in *Chingleput* 62 per cent. The increase in these districts is attributed to desire on the part of the ryots to compound, where the offences were petty and were clearly proved, and it is reported that the power of compounding has not been used in cases when the evidence was not sufficient to support a conviction.

34. The percentage of acquittals to the number of cases dealt with by the magistracy shows a satisfactory decrease on the whole, viz., 21.4 per cent. against 24. But looking at the individual districts the results are unsatisfactory in *Ganjam*, *Kurnool*, *North Arcot*, *Trichinopoly* and *Madura* where the percentage of acquittals shows a large increase over that of the previous year. The *Madura* results are specially discreditable, there having been 49 acquittals against only 10 convictions, and, as in the previous year, when the results were also bad, no explanation has been given. The District Forest-officer responsible was Mr. H. A. Gass. In *North Arcot* where 37 per cent. of the cases dealt with by the magistracy resulted in acquittal, no explanation has been offered. In *Ganjam* (percentage of acquittals 39), undue leniency on the part of the magistracy in dealing with forest offences is alleged. The Collector states that the matter will receive his attention in his capacity of District Magistrate. In *Kurnool* (percentage 39) and *Trichinopoly* (percentage 36), the Collectors state that the preliminary enquiry ordered to be made by the departmental officers before sending up cases to the magistrates was neglected. The District Forest-officers concerned (Messrs. Murray and Hayne) have apparently paid no attention to the instructions issued on this subject and their Collectors will see that they obey orders in future. In *North Coimbatore*, though the percentage of acquittals was less than in the preceding year, it is still strikingly large (38 per cent.). The Collector explained, with reference to a similar remark in the report for 1891-92, that the large percentage of acquittals was due to

want of proper supervision over the Forest subordinates who were apt to send up cases to magistrates on insufficient evidence or out of malice. The Collector is requested to take steps for bringing this unsatisfactory state of things to an end.

35. The number of cases pending disposal at the end of the period under report was particularly large in proportion to the total number for disposal in *Ganjam* (174), *Gódvári* (364), *Kistna* (318), *Cuddapah* (280), *North Coimbatore* (109) and *South Canara* (180). In *Gódvári* and *South Canara* the majority of the cases undisposed of are reported as pending with the magistrates; while in regard to the other districts, no explanation has been given. Where the magistracy is at fault, the matter should receive the attention of the Collector in his capacity as District Magistrate, and stringent orders should be issued to avoid recurrence of the delays on the part of the departmental officers which these figures seem to indicate. Separate proceedings will be issued calling on the above-named Collectors to submit special reports as to the present state of the magisterial file of forest offences.

36. In the *Cuddapah* district, a forest guard and a fire-patrol were murdered in December last in the Palkonda reserve while on duty; two persons were found guilty of the crime and transported for life. A few months later, in the Sibbiyala reserve in the same district, a watchman and his father were found murdered; and since the close of the period under report, another reserve watchman in the Soshachallam reserve was murdered. The Conservator was requested some time ago to visit the district and investigate the causes of this outbreak of crime, and his report is awaited. In *South Arcot*, a case of illicit felling and sale of 9,000 casuarina trees by the departmental subordinates was detected. It was tried under the Indian Penal Code and the accused were sentenced to fine and imprisonment.

37. The Government of India recently called for a report on the operation of the rules relating to the grant of rewards to informers in forest offences with a view to ascertain whether the system was open to abuse by placing temptations in the way of forest subordinates to which they ought not to be exposed. The reports received from the district officers have been submitted with Board's Proceedings, dated 25th September 1893, Forest No. 677. They showed that in the great majority of cases, rewards were granted to private informers and not to Forest officers, and that the powers entrusted to Collectors have been judiciously exercised.

(c) *Forest fires and fire-protection.*

38. The results of fire-protection are recorded in the subjoined abstract:—

Circle.	Up to 31st March 1891.		During 1891-92.			During 1892-93.		
	Area of forest reserves attempted in square miles.	Total cost per square mile.	Area attempted in square miles.	Percentage of area attempted which escaped fire.	Average cost per square mile.	Area attempted in square miles.	Percentage of area attempted which escaped fire.	Average cost per square mile.
Northern	1,532	Rs. A. P. 31 7 1	1,163½	96	Rs. A. P. 10 11 3	1,312	98	Rs. A. P. 14 10 0
Central	2,288	40 9 8	2,321	94	6 2 1	2,407	92	9 3 10
Southern	1,108	99 6 6	1,172	92	16 6 7	1,381	98	18 8 6
Total	4,928	50 16 7	4,596½	94	9 13 9	5,100	95	13 2 3

The amount expended during the period under report was Rs. 67,020 against Rs. 45,318 in the previous year. The increase in cost is mainly due to the fact that the fifteen months under report cover one entire fire-season and part of another; and it has also to be observed that a larger area was placed under protection than in the preceding year.

The percentage of area burnt to area protected is largest in the Central Circle and exceeds that of the preceding year. The number of forest fires in the Central

Circle was, in fact, more than double that of 1891-92, and exceeds that of the other two Circles taken together, as will be seen from the following statement :—

Circle.	Number of cases of injury to forests by fire.	
	In 1891-92.	During the period under report.
Northern	8	17
Central	27	61
Southern	25	23
Total	60	101

This large increase in incendiarism is ascribed to the fact that during the drought which prevailed in the Ceded districts during 1891 and the early part of 1892, the people spared the forest through fear of losing even the dry grass; while in the period under report an early and copious supply of rain was generally predicted, and the ryots, no longer in dread of losing the remaining supply, fired the jungles on all sides.

39. The districts in which forest fires were most numerous and mischievous are Kurnool in the Northern Circle, Cuddapah and Nellore in the Central, and Madura, Tinnevely and Coimbatore in the Southern Circles. The fires were partly due to incendiarism and partly to accident, *e.g.*, the sparks from a railway engine, or to carelessness on the part of the subordinates. In *Nellore* they are said to have spread from the adjoining zemindari forests and from the Cuddapah district; in *Madura* from the Travancore territory; and in *Coimbatore* from the Mysore forests. In *Tinnevely* they are ascribed to carelessness on the part of the charcoal-burners in coupes, and to fires kindled in the adjoining zemindari forests. In *Ganjām*, *Vizagapatam*, *Góddavari* and *Bellary* protection was assisted by heavy showers and by the abundance of green-grass consequent on the more favorable season. The system of burning the grass under departmental supervision early in the season to prevent its taking fire when dry was tried successfully in the *Nilgiris* and has been introduced as an experiment into *North Malabar* and *South Canara*. In *Góddavari*, the statistics of areas under protection are reported to be inaccurate. Correct returns should be obtained and furnished in the next report. The question of confining protection to small well-defined areas so as to render it more effectual is under correspondence between the Collector of *Tinnevely* and the Conservator of Forests, Southern Circle. This matter should be considered in other districts also.

(d) Grazing.

40. Towards the close of the period under report the Board called upon Collectors and Conservators to report whether it would not be more advantageous to do away with the distinction now in force between the "privileged" cattle entitled to grazing in forest reserves at half rates as representing necessities for agriculture and the non-privileged cattle on which full rates have to be levied under the orders of Government. The great majority of these officers are of opinion that the distinction can be advantageously dispensed with and one uniform rate adopted for both. Their reports are now under the consideration of the Board and the question will shortly be submitted to Government. Information regarding the number of each class of cattle, viz., buffaloes, cows, bullocks, sheep, &c., grazed in the reserves not being given in the district reports, the Board has not been able to furnish information regarding the number of cattle and the incidence of tax per head in the form given in abstract J, printed in paragraph 49 of the report for 1891-92.

41. The following table shows the grazing revenue realized in each district during the period under review as compared with that in the twelve months preceding it :—

Districts.	Revenue from grazing fees, grazing contracts and sale of grass realized in			Rates of grazing fees levied.
	The twelve months ending March 1892.	The twelve months ending March 1893.	The three months from April to June 1893.	
1	2	3	4	5
	rs.	rs.	rs.	
Ganjām	131	2,219	423	Half the maximum rates.
Vizagapatam	108	75	..	Not reported.
Góddavari	3,831	4,297	59	The maximum in the coast forests and half rates elsewhere.
Kistna	43,479	45,187	238	The maximum rates.
Anantapur	1,806	1,536	23	Half the maximum.
Bellary	8,578	3,841	102	Do. do.
Kurnool	12,078	9,213	1,833	Half the maximum in the Nallamalais and one-fourth in the Yerranalais.
Total	70,011	66,368	2,478	
Nellore	13,861	14,219	836	Grazing is leased out in this district.
Cuddapah	11,629	7,297	3,667	The maximum rates.
Chingleput	909	4,240	1,163	The maximum in some reserves and three-fourths of the maximum in others.
North Arcot	13,525	7,139	4,530	The maximum on non-privileged cattle and half on privileged cattle.
South Arcot	4,054	8,362	261	Half the maximum on the district cattle and the maximum on others.
Tanjore	619	531	56	The maximum rates.
Trichinopoly	5,132	4,793	510	The maximum for the hill forests and half for others.
Salem	10,121	17,633	667	Half the maximum.
Total	59,950	64,314	11,680	
Madura	1,383	929	85	The maximum on non-privileged cattle and half on privileged cattle.
Tinnevely	2,158	3,349	931	Do. do. do.
North Coimbatore	37,032	27,681	13,669	Do. do. do.
South Coimbatore	9,324	8,752	5,873	Do. do. do.
Nilgiris	3,323	3,697	1,249	The maximum on the district non-privileged cattle half on privileged cattle, and (under special sanction) double the maximum on alien cattle.
North Malabar	397	383	72	Three annas on buffaloes and two annas on cows, bulls, &c.
South Malabar	144	126	2	Grazing is leased out in this district.
South Canara	..	..	..	Half the maximum.
Total	53,761	44,907	21,781	

NOTE.—The maximum rates above referred to are those sanctioned by Government for non-privileged cattle, viz :—

	Per annum.
1. For buffaloes	Rs. A. P.
2. For bulls, cows, bullocks, calves, horses, asses and foals	0 8 0
3. Sheep and goats	0 4 0
	6 2 0

For purposes of comparison the figures for the twelve months ending March 1893 are separately shown in the above. Taking these figures alone into consideration the grazing revenue of 1892-93 shows a considerable falling off in the Northern and Southern Circles, while there is an increase in the Central Circle. The decreases are mainly noticeable in Bellary and Kurnool in the Northern Circle, and in North Coimbatore in the Southern. In the two former districts it is attributed to the fact that there was not so much demand for grass and for grazing in the reserves during 1892-93 as in the year previous, as adequate pasture was available outside the reserves in consequence of the more favorable season. For the decrease in *North Coimbatore* no explanation has been given.

The increase in the Central Circle is mainly contributed by the Chingleput, South Arcot and Salem districts. In *Chingleput* the reserves were practically thrown open to free grazing in 1891-92 in consequence of scarcity; but in the succeeding year the season having been favorable, higher rates within the sanctioned maximum were charged. The increase in *South Arcot* is attributed to the larger number of Tanjore cattle grazed in the Tiruvannamalai reserves and to a more efficient method of collecting the fees on them. In *Salem* the increase is due to the raising of the rates of grazing fees which in the previous year were very low. On the other hand there was

a large decrease in the *Cuddapah* and *North Arcot* districts, in the former owing to the smaller number of cattle admitted to grazing in the reserves, and in the latter to delay in the issue of permits, caused by certain Tahsildars not having furnished in time the returns of cattle entitled to the privileged rates of grazing fees.

42. Grazing fees were levied for the first time in *Ganjām* during the period under review and have now been introduced in *South Canara* also. In *Vizagapatam* the revenue is small, as there is plenty of free grazing in unreserved lands and in the Agency. In *Kistna* and *Nellore* the system of leasing the grazing lands has long been in force. The departmental collection of grazing fees was introduced experimentally in 1891-92 in parts of the former district and is reported to be working satisfactorily. The Collector has recently raised the question of leasing the areas hitherto set apart for free grazing in this district and the matter is now under the consideration of the Board. The system of opening the reserves to grazing by rotation so as to keep a portion of each forest in reserve to meet any sudden demand was introduced in the *Bellary* district. The rates of grazing fees in *Kurnool* having been found to be too low, have now been raised. The small revenue realized in *Madura* is said to be due to want of time on the part of the subordinates who were fully engaged in other work; now that settlement work is drawing to a close in this district this often-offered excuse can no longer be accepted. In *Tanjore* and *Malabar* the amount of grazing revenue realized was also small. The former is not really a forest district, and in the latter there is a large extent of private grazing lands.

43. In the present stage of working of the department, Forest officers cannot devote very much attention to the proper regulation of grazing. When the preliminaries in regard to reservation are over, and working plans are developed, the matter will receive more attention. Meanwhile the statistics furnished by the District officers can only be accepted with great caution, and there would be little gained by attempting to draw inferences therefrom. Several Collectors have failed to furnish information as regards the area closed to grazing, the area grazed over and the average number of cattle grazed per square mile. The available information is given in appendix E.

44. *Departmental grass-cutting and hay-making.*—A special report received from the Conservators on this subject was lately submitted to Government. From the reports of the Collectors it is observed that experiments were continued in the period under report in *Bellary*, *Cuddapah*, *North Arcot*, *South Arcot*, *Tinnevely* and the *Nilgiris*,

* District.	Name of forest where hay was collected.	Quantity collected in lbs.	Cost of collecting.	Amount realized.
Bellary.	North-east range and Donimalai range in Sandur.	41,000	Rs. 112	Rs. 54
Nilgiris	Snowdon and Aramby	4,120	24	16

In *Cuddapah* and *North Arcot* the experiment resulted in a heavy loss owing to absence of demand for dry fodder in consequence of the abundance of green grass outside the reserves. The loss in these districts was about Rs. 5,000 and Rs. 3,000 respectively. In *South Arcot* and *Tinnevely* there was a strong prejudice against the hay made departmentally, as it was believed to make the cattle sick. The previous year's hay in *Kurnool* and *Salem*, became unsaleable chiefly owing to the high prices fixed by the Forest department in the former district, and to the fact that the grass was cut after it had seeded in the latter district. The Collectors of *Salem* and *Nilgiris* have reported that experiments will be renewed with greater care and under more favorable conditions. As stated in Board's Proceedings, dated 3rd October 1893, Forest No. 696, the Board thinks that there is no reason why such operations, if undertaken on a small scale, should not be successful if proper precaution is taken to select suitable localities near centres of demand, and to cut the grass before spear-heads have formed. In *Bellary* 4,073 tons of grass cut departmentally was sold for Rs. 2,502.

In *Cuddapah* the ryots, and in *Tinnevely* the minor forest produce contractors, were encouraged to cut grass from the reserves which is a great improvement on the system of grazing it down.

(e) *Natural reproduction.*

45. The remarks of the Conservators of the Northern and Central Circles on this subject will be found in appendix F, along with an abstract of the reports of the Collectors of the Southern Circle. Mr. Cherry, the Conservator of this circle, has in his report disposed of the matter in a few short sentences.

In the Northern Circle, reproduction was satisfactory in all the districts except *Anantapur*. The sāl (*Shorea robusta*) is the chief timber tree in the *Ganjām* and *Vizagapatam* districts, and the Yēpi (*Hardwickia binata*) in *Kistna*, *Bellary* and *Anantapur*. The effects of continuous protection are most striking in the Peddapalli reserve in the *Vizagapatam* district. The reproduction of sāl (*Shorea robusta*) in *Ganjām* is rapid even in unprotected blocks. In *Gōddāvari* reproduction is somewhat affected in certain reserves by the surplus water of the delta irrigation. In *Kistna*, the growth of prickly-pear (*Opuntia dillenii*) in salt marshes is found to be a protection to seedlings and to bind the sand and form a soil with its own debris. Reproduction in *Anantapur* is retarded by extreme dryness and want of cover; in the Nallamalais in *Kurnool*, by regularly recurring fires; and in the Yerramalais in the same district by excessive grazing.

The Conservator, Central Circle, observes that "no special measures were undertaken during the period under report to facilitate natural reproduction from seed from the standing mother-trees by opening out the canopy or by clearing undergrowth. Nothing can be undertaken systematically until the subordinate staff is strengthened and the works of selection and demarcation are further advanced." Reproduction from coppice was satisfactory in Balapalle and in the Aradur and Sathiavedu reserves in *Cuddapah* and *Chingleput* respectively. Seedlings of *Bambusa arundinacea* and *Dendrocalamus strictus* were found in abundance on the Javadi hills in *North Arcot* and *Salem* wherever spared by the cattle. In *North Arcot* 3 areas in the Javadis were fenced to encourage sandalwood reproduction. The result was fairly successful. In forests consisting chiefly of *Albizia amara* there was no reproduction even where grazing was limited. In *Nellore*, the coppicing of casuarina was found to be a failure.

In the Southern Circle, natural reproduction is reported to be unmistakably good under proper protection; but some areas which are rich in grass and are not grazed sufficiently are liable to fires and do not improve. In the *Nilgiris* the *Eucalyptus* and the teak (*Tectona grandis*) are growing well from coppice shoots. In *South Malabar*, the seedling growth of *Xylia dolabriformis*, *Lagerstrœmia microcarpa*, *Pterocarpus marsupium* and *Dalbergia latifolia* is good. In *South Canara*, the principal enemies to reproduction are grazing, fire, high winds, hilly ground and violent floods.

(f) *Artificial reproduction.*

46. The subjoined statement shows the area under plantations, topes and cultural operations together with the cost incurred during the period under report as compared with the figures of the preceding year:—

ABSTRACT H.—Plantations, topos and cultural operations in other areas.

PLANTATIONS.												TOPSES.	
Up to 1891-92.				Added during				Total.		Up to 1891-92.		Added during	
Area in acres.		Cost.	1891-92.		1892-93.		Area in acres.	* Cost.	Area in acres.	* Cost.	Area in acres.	Cost.	
			Area in acres.	Cost.	Area in acres.	Cost.							
1	2	3	4	5	6	7	8	9	10	11	12	13	
Northern Circle	909	Rs. 34,201	25	Rs. 2,593	2	Rs. 3,008	936	Rs. 33,802	3,517	Rs. 18,316		Rs. 1,204	
Central "	12,676	6,55,122	750	21,563	3	26,749	13,429	7,00,431	7,909	3,47,987	2,577	4,661	
Southern "	6,275	4,50,208	124	12,022	224	18,377	6,693	4,81,207	14,393	59,277	159	2,287	
Grand Total	19,860	11,36,531	899	36,778	229	48,134	20,988	12,21,443	26,789	4,25,280	2,736	8,152	

OTHER AREAS.											
TOPSES—cont.				OTHER AREAS.				Total			
Added during		Total.	Up to 1891-92.		Added during		Total				
1892-93.		Area in acres.	* Cost.	Area in acres.	1891-92.		1892-93.				
Area in acres.	Cost.				Area in acres.	Cost.	Area in acres.	Cost.			
14	15	16	17	18	19	20	21	22	23	24	25
Northern Circle	26	Rs. 1,902	2,542	Rs. 21,422	412	Rs. 4,300	10	Rs. 1,688	37	Rs. 1,872	Rs. 7,860
Central "	—	6,577	10,316	3,58,925	3,764	40,723	67	2,143	42	2,450	45,315
Southern "	12	327	14,584	61,691	1,961	12,959	211	1,995	312	3,535	18,489
Grand Total	—	8,806	28,392	4,42,236	6,137	57,981	288	5,896	391	7,857	71,684

† "Running miles:" the area is not given.

* Includes maintenance of existing plantations, topes, &c.

Information in respect of the work done in the various districts under (f) *Artificial reproduction*, (g) *Improvement fellings*, (h) *Experiments and planting of Exotics* will be found in Appendix F. It will suffice here to quote the following remarks of the Conservator, Central Circle, in regard to artificial reproduction :—

"In this circle, experience has shown that broadcast sowings unaccompanied by preparation of the soil are a failure and waste of money. The success of such work even when the season is favorable depends upon the interest and energy shown by the subordinates in charge, and these qualities, I fear, are generally wanting. District Forest-officers have no time to personally supervise such work."

Mr. Morgan, District Forest-officer, Nilgiris, has taken much interest in experiments with exotics in that district. It is observed that no such experiments were made in Kurnool and Anantapur.

(i) *Communications and Buildings.*

47. The subjoined statement shows the outlay on communications and buildings during the period under report as compared with the preceding year:—

	1891-92.	Fifteen months ending June 1893.
	RS.	RS.
Roads and bridges	30,796	37,286
Buildings	38,035	59,395
Other works	3,666	3,625

The percentage of the total outlay on roads and buildings during the period under report to the gross revenue was 5.1 against 4.2 in 1891-92. As usual, the expenditure on buildings greatly exceeds that on roads. A list of the principal new roads and buildings completed during the year is appended (Appendix G).

In several districts the expenditure on new roads was stopped pending sanction to a general project of road works drawn up with reference to the remark in Government of India's review of the report for 1890-91.

Considerable sums were, however, spent in repairs and improvements to existing roads in several districts, notably in Anantapur, South Arcot, Nilgiris and North Coimbatore.

Tramways.

48. The results of the working of the tramway in North Arcot and Nellore are detailed in Appendix H. In *North Arcot*, the working of the tramway shows a loss as compared with transport by carts; but it must be remembered that though the tramway was actually worked only for 3 months during the year, interest and depreciation have been calculated for the whole year. As it was not found feasible to work the line adequately in the North Arcot district, it has been sent to *Nellore* since the close of the period under report.

Of the two lines in *Nellore* the one in the casuarina plantations was worked at a profit, while that at Sriharikota was less successful. The results of the latter would have been more favorable, had it not been for the fact that the new waggons were received only in November 1892 and the estimated quantity of wood was not therefore fully exported.

In *Cuddapah* two miles of permanent line of tramway and several temporary offshoots have been laid down in Ballapalli working circle block II. The work has been well done. The revenue and expenditure of the line are as follow :—

<i>Expenditure.</i>					RS.	A.	P.
(a) Cost of material ...	...	...	...	...	13,967	5	10
(b) Cost of laying lines ...	...	...	...	...	1,850	9	0
(c) Cost of trucking fuel ..	...	...	...	...	93	9	6
Total ...					15,911	8	4
<i>Revenue.</i>							
(d) Received from the Contractor for the use of the trucks for transporting his fuel ...	...	...	...	...	191	1	6
Profit (d-c) ...					97	8	0

Calculated on the total capital cost of the tramway and of laying the line, it will be seen that the net profit was only 6 per cent. during the 18 months the line has been in the district. It has to be remembered however that for 8 months no revenue was realized as the line was under construction. From the current year allowance should be made for interest on the capital outlay and depreciation of stock and the results reported in the form given in Appendix II to this report for the North Arcot and Nellore districts. The working of the tramway in *South Coimbatore* has resulted in a loss. The accounts of this line have been worked out by the Collector on somewhat different lines from those in Nellore and North Arcot. They are also printed in Appendix H.

Canal.

49. The canal in Lankavanidibba in *Kistna* is reported to have silted up. Steps will be taken to have it cleared in the current year.

Boats.

50. Two new boats were purchased in *South Malabar* and the District Forest-officers' boats in *Gódavari* and *Kistna* were repaired at a cost of Rs. 200 each and minor repairs were done to the foresters' boats in the latter district. A boat in *Nellore* became useless and was sold. A small boat was bought for the reserve watcher at *Coringa* in *Gódavari*.

CHAPTER V.

YIELD AND WORKING.

51. The total quantity of timber and other produce cut and removed during the period under report is shown in the subjoined abstract:—

ABSTRACT I.—Comparative yield as per Forms 69, 72-A and 72-B.

	Timber (in cubic feet) including sandal-wood.		Fuel (in cubic feet).	
	1891-92.	1892-93 (1st April 1892 to 30th June 1893).	1891-92.	1892-93 (1st April 1892 to 30th June 1893).
1	2	3	4	5
By Government Agency ..	266,646	(a) 292,300	1,806,320	(b) 2,038,099
By purchasers (including confiscations) ..	2,722,696	2,634,450	12,179,502	10,098,923
Free grants ..	97,795	38,806	1,851	1,543
Total ..	3,086,937	2,965,556	13,987,173	12,138,565
Increase or decrease in 1892-93 as compared with 1891-92 ..	..	— 120,381	..	— 1,848,608
Percentage of increase or decrease over the previous year's total ..	..	— 4	..	— 13

(a) Includes 6,197 cubic feet, being excess found on remeasurement of timber and sandal-wood collected and taken to depot in previous years as per form No. 76.
(b) Includes 6,485 cubic feet, being excess found on remeasurement as per form No. 70.

	Bamboos (in number).		Minor produce (gross value in rupees).	
	1891-92.	1892-93 (1st April 1892 to 30th June 1893).	1891-92.	1892-93 (1st April 1892 to 30th June 1893).
	6	7	8	9
By Government Agency ..	32,352	34,039	(a) 45,051	(a) 48,951
By purchasers (including confiscations) ..	31,035,500	20,652,606	5,96,158	7,54,097
Free grants ..	(b) 82,913	92,748	633	207
Total ..	31,160,765	20,779,393	6,40,842	8,03,255
Increase or decrease in 1892-93 as compared with 1891-92 ..	..	— 10,371,372	..	+ 1,62,413
Percentage of increase or decrease over the previous year's total ..	..	— 33	..	+ 25

(a) Includes grazing fees. (b) Includes 2,700 bamboos omitted in the report for 1891-92.
NOTE.—The value of minor produce given above is that of the quantity *disposed* of, not that of the quantity *collected*, as the value of the latter is not known.

The removals of timber, fuel and bamboos show a decrease as compared with those of 1891-92 while the value of minor produce alone shows an increase. The decreases occur under removals by purchasers.

The decrease in timber is mainly due to the closing of a certain reserve against cutting in *Gódavari*, to the fact that in *Kistna* the jungle from which removals were made in former years was nearly exhausted, to smaller revenue from sale of trees on lands assigned for cultivation in *Nellore* and to want of time on the part of the establishment in *Madura* to supervise removals. There are also considerable decreases in *Cuddapah* and *North Malabar* which have not been explained.

The falling off under firewood is due to want of demand from the Public Works Department in *Ganjām*, to keen competition from private forests in *Bellary*, and to slack demand in *Kurnool*. The Collectors of *Cuddapah*, *North Arcot* and *South Arcot* have not explained the variations in their districts.

The decrease in the number of bamboos occurs mainly in *Kistna*, *North Arcot*, *Trichinopoly*, *Salem* and *Nilgiris*. In the first named district it is due to the closing of a bamboo forest against cutting. The decreases in the other districts have not been explained.

The average yield per square mile of forest area was 879 cubic feet of timber and fuel, 1,209 bamboos and Rs. 47 worth of minor produce, against 954 cubic feet of timber and fuel, 1,742 bamboos and Rs. 36 worth of minor produce, respectively, in the previous year.

Section I.—Departmental operations.

52. The numbers of trees felled by departmental agency and converted into logs, &c., are shown in the subjoined abstract:—

Year.	Balance on hand at the beginning of the period under report.	Number of trees felled during the period under report.	Total.	Converted into logs, &c., during the period under report.	Balance on hand at the end of the period under report.
1891-92 ..	479	27,022	27,501	26,293	1,208
1892-93 (15 months) ..	1,208	58,002	59,210	58,199	1,011

Even making allowance for the fact that the period under report comprises 15 months against 12 months in the preceding year, the number of trees felled shows a large increase, chiefly in *Gódavari*, *Kistna*, *Bellary* and *North Arcot*. The increase in *Gódavari* is due mainly to the felling of teak trees in the unreserved forests of the

Bhadrachalam sub-division and to a large number of trees blown down by a heavy storm in one of the coast plantations. In *Kistna* and *Bellary* sample areas were felled for the preparation of working plans. In the former district the large number of trees withered by the drought also contributed to the increase. The increase in *North Arcot* has not been explained, and it is observed that, though the number of trees felled there was larger, the quantity of timber and fuel collected was less than in the previous year.

53. The following abstract shows the statistics of timber and other produce collected and disposed of departmentally during the period under report as compared with the year preceding:—

ABSTRACT J.—Produce collected and disposed of (Forms 69, 70 and 71).

Produce collected.	During 1891-92.			During 1892-93 (from 1st April 1892 to 30th June 1893).		
	Quantity.	Cost.	Average.	Quantity.	Cost.	Average.
1	2	3	4	5	6	7
Timber in cubic feet ..	261,420	Rs. 46,981	Rs. A. P. 0 2 10	(a) 288,714	Rs. 62,802	Rs. A. P. 0 3 5
Fuel in cubic feet ..	1,806,320	70,437	0 0 7	(b) 2,038,099	84,900	0 0 8
Bamboos in number ..	32,352	1,034	0 0 6	34,039	1,492	0 0 8
Sandalwood in cubic feet ..	5,126	4,971	0 15 6	(c) 3,556	3,697	1 0 8
Minor produce in maunds of 25 lbs. ..	184,404	41,276	0 3 7	(d) 38,430	29,088	0 12 1
Total ..	..	1,63,699	..	..	1,81,979	..

Produce disposed of.	During 1891-92.			During 1892-93 (from 1st April 1892 to 30th June 1893).			Stock on 1st April 1892.	Stock on 30th June 1893.
	Quantity.	Sales.	Average.	Quantity.	Sales.	Average.		
	8	9	10	11	12	13	14	15
Timber in cubic feet ..	389,808	Rs. 1,66,936	Rs. A. P. 0 6 10	293,490	1,79,592	0 7 4	264,640	158,413
Fuel in cubic feet ..	1,833,591	1,22,049	0 1 1	2,368,992	1,36,995	0 0 11	340	562,862
Bamboos in number ..	45,867	1,312	0 0 5	58,859	4,144	0 1 2	340	6,094
Sandalwood in cubic feet ..	4,183	40,957	9 12 7	4,140	40,100	9 10 11	1,401	1,244
Minor produce in maunds of 25 lbs. ..	36,548	45,051	1 3 8	152,082	48,951	0 5 2	157,921	44,289
Total ..	..	3,76,305	..	..	4,08,782	..	..	..

(a) Includes 6,195 cubic feet found in excess in depôts as per form No. 70.

(b) Do. 6,485 do. do. do. do.

(c) Do. 2 do. do. do. do.

(d) Do. 28 maunds do. do. do. do.

(e) Do. that used departmentally, written off, &c., as per forms 69 and 70.

(f) 340 cubic feet wrongly classed under miscellaneous timber during 1891-92 has been correctly classed under fuel this year.

(g) Quantity shown in excess during 1891-92.

54. The quantity of timber and fuel and the number of bamboos collected show a considerable increase; and this is what might be expected from the longer period to which this report relates. But taking the individual districts into consideration, there is a large decrease under timber collected in *Ganjām*, *Cuddapah*, *North Arcot*, *South Arcot*, *Tinnevely*, *North Coimbatore* and *North Malabar*. This decrease was more than counterbalanced by an increase in *Gôdāvari*, *Kistna*, *Kurnool*, *South Malabar* and *South Canara*. In *Ganjām* the departmental felling was restricted so as not to interfere with the purchasers removing marked trees under permits. In *Cuddapah*, owing to slack demand for redwood roots and stumps, of which there was a large stock on hand, a smaller quantity was collected by the department during the period under report. The decrease in *South Arcot* is attributed to want of establishment to undertake

departmental operations, and also to slack demand for casuarina timber in the coast plantations. The decreases in *North Arcot*, *Tinnevely*, *North Coimbatore* and *North Malabar* have not been explained.

The increase in *Gôdāvari* and *Kistna* is due to the larger number of trees felled which has been already explained. In *Kurnool* departmental fellings were carried out in 1892-93; this was not done in the previous year. In *South Malabar* the Nilambur plantation was newly worked during 1892-93 and the outturn of timber in *Amaram-palam* and *Palghat* Ranges was larger than in the previous year. In *South Canara* there was greater demand for timber for certain large public buildings.

Under disposal of timber there was a large increase in *Cuddapah* due to the sale of the stock collected in previous years. The larger sale in the *Nilgiris* is due to the greater demand for timber from *Mysore* merchants.

55. Under disposal of fuel the increase is the net result of large decreases in *Ganjām*, *Gôdāvari*, *Cuddapah*, *South Arcot*, *Trichinopoly* and *Madura*, counterbalanced by increase in *Kistna*, *Bellary*, *Kurnool*, *Nellore*, *Salem*, *Tinnevely*, *South Coimbatore*, *Nilgiris* and *South Canara*. In *Ganjām* there was no demand for fuel from the Public Works Department as in the previous year. In *Gôdāvari*, though the quantity collected was larger, the quantity disposed of was less than in the previous year, and no explanation is given for the discrepancy. In *Cuddapah*, *South Arcot* and *Trichinopoly*, the decrease is attributed mainly to the absence of demand from the Railways; and in *Madura* to the competition from private dealers who undersold the departmental fuel and to the difficulty in getting carts as the owners were engaged in conveying material to the *Periyār* works. The increase in *Bellary* is due to the felling of sample areas; in *Kistna* to the sale of the stock of previous years; and in *Kurnool* to departmental operations having been newly undertaken during the period under report. In *Salem* fuel was supplied departmentally to the Railway Company and to the Central Jail; in the *Nilgiris* to the Commissariat; and in *South Canara* to the sandalwood-oil distillers. In *Nellore*, *Tinnevely* and *South Coimbatore*, the increase was mainly due to the inclusion of the transactions of the three months from April to June 1893.

56. Under disposal of bamboos, the increase occurs mainly in the *Cuddapah* and in the *North* and *South Arcot* districts. These variations have not been explained. On the other hand a large decrease occurred in *Kurnool* owing to the fact that the collection of bamboos departmentally in the previous year was undertaken to provide work for the hill tribes during the scarcity which has since passed away.

57. Under minor produce, while the quantity collected shows a large decrease, the quantity disposed of shows an increase, as compared with the preceding year. This is due to the fact that a large quantity of hay collected in the preceding year in *Kurnool*, *Cuddapah*, *North Arcot* and *Salem* was either written off or sold during the current year. Even excluding this, the quantity of produce collected during the period under report shows a decrease which is specially noticeable in *South Coimbatore* and is attributed to the indifference of the Range officers in that district. The Collector and Conservator are in favour of abandoning the departmental system and adopting the leasing system in this district. In *South Canara*, this change from the departmental to the leasing system was adopted during the period under report and is said to be working satisfactorily.

58. The cost of collection under all the heads was higher than in the preceding year. The reason for this has not been explained in the Collectors' reports. As regards minor produce, even if the quantity and cost of grass which is included under this head (viz., 150,386 and 9,096 maunds and Rs. 13,842 and 678 respectively), are deducted from the figures of both years, the cost per maund in 1892-93 will be found to be about Annas 15-6 against Annas 12-11 in 1891-92. The rates of prices realized during the period under report except in the case of fuel are slightly better than those of the previous year; but the net profit, except in the case of bamboos is much less, as the cost of collection is greater.

Section II.—Removals by purchasers under the permit system.

59. The subjoined abstract shows the quantity and value of timber and other produce removed under the permit system, compared with the results of the preceding year.

ABSTRACT K.—Produce removed by permit-holders on seigniorage or otherwise (Appendix 72-A).

Produce.	During 1891-92.			During 1892-93 (from 1st April 1892 to 30th June 1893).		
	Quantity.	Amount of sales.	Average.	Quantity.	Amount of sales.	Average.
<i>Northern Circle.</i>						
Timber C. ft.	1,242,240	Rs. 1,20,179	Rs. A. P. 0 1 7	1,361,512	Rs. 1,23,528	Rs. A. P. 0 1 5
Firewood "	3,525,138	54,318	0 0 3	2,859,225	55,644	0 0 3
Bamboos No.	10,924,176	56,604	0 0 1	11,858,261	68,638	0 0 1
Grass and grazing "	..	68,458	..	..	68,670	..
Minor produce "	..	84,709	..	..	82,538	..
Total	..	3,83,268	..	..	3,99,018	..
<i>Central Circle.</i>						
Timber C. ft.	1,128,210	81,927	0 1 2	976,233	96,557	0 1 6
Firewood "	5,861,006	1,26,453	0 0 4	3,681,693	1,50,804	0 0 8
Bamboos No.	19,734,374	66,880	0 0 1	6,469,979	77,924	0 0 2
Grass and grazing "	..	60,133	..	..	76,595	..
Minor produce "	..	2,27,591	..	..	2,93,925	..
Total	..	5,62,984	..	..	7,01,705	..
<i>Southern Circle.</i>						
Timber C. ft.	307,249	46,558	0 2 5	250,900	45,532	0 2 11
Firewood "	2,777,741	79,701	0 0 6	35,17,831	91,766	0 0 6
Bamboos No.	355,034	21,659	0 1 0	2,291,488	25,850	0 0 2
Grass and grazing "	..	83,420	..	..	86,677	..
Minor produce "	..	95,479	..	..	1,58,830	..
Total	..	2,96,817	..	..	3,88,656	..
<i>Presidency Total—</i>						
Timber C. ft.	2,677,699	2,18,694	0 1 6	2,591,645	2,65,677	0 1 7
Firewood "	12,163,886	2,60,472	0 0 4	10,058,749	2,98,154	0 0 6
Bamboos No.	31,013,584	1,45,143	0 0 1	20,610,728	1,72,312	0 0 1
Grass and grazing "	..	1,82,011	..	..	2,11,942	..
Minor produce "	..	4,11,779	..	..	5,41,293	..
Grand Total of sales, Rupees	..	1,248,069	..	..	14, 9,378	..

Under timber, fuel and bamboos the value of the sales shows an increase, while the quantity removed shows a decrease. The increase in the value is chiefly due to the better prices realized for the produce owing to greater demand arising from a more favorable season, as well as to better supervision over the removals.

60. In the value of timber sold the increase was small and occurred in all the districts except Gódvári, Kistna, North Arcot, Tanjore, North Coimbatore, North Malabar and South Malabar. In Gódvári a certain reserve was closed against cutting; in Kistna the jungle from which the bulk of the revenue under this head was derived was nearly exhausted in previous years and restrictions were placed on the removal of babul (*Acacia Arabica*) and palmyras (*Borassus flabelliformis*). In North Arcot, it is said that the permit system was discouraged for want of officers to supervise the fellings; but this explanation can only account for a decrease in the quantity, and not for the increase in the quantity and the decrease in the revenue which occurred in this district. In Tanjore, the decrease is small, while the decreases in North Coimbatore and North Malabar have not been explained. In South Malabar, while the quantity shows an increase, the value shows a falling off, and this is ascribed to the fact that a large quantity of inferior jungle wood was removed from the new clearings at Nilambur. The increase is mainly due to greater demand in the Nilgiris, to better detection in South Canara, to more favorable season in Cuddapah, to larger sales of trees on lands assigned for cultivation in Bellary and Chingleput and to larger sales of trees in tank-beds, &c., in Salem.

61. The increase in the value of fuel occurred mainly in Gódvári, Chingleput, North and South Arcot, Tanjore, Salem and North Coimbatore. It was partially counter balanced by a large decrease in Bellary and Cuddapah. The increase is mainly due to larger demand owing to the opening of the railway in Gódvári, to the larger sale of trees in lands assigned for cultivation in Chingleput, to competition in the

sale of fuel coupes in South Arcot, to better check on removals in Salem, and to greater demand in Tanjore. The increase in North Arcot and North Coimbatore has not been explained.

The increase under bamboos is generally due to larger removals and is spread over several districts; but in Kistna and South Arcot, there was a large falling off, in the former owing to the closing of the Kondapalli reserve against cutting, and in the latter owing to the last lease of the bamboo coupes not having fetched a good price. There were also slight decreases in Anantapur, North Arcot, Tanjore, and Madura; but these do not call for any special remark.

62. The variations under grazing have been explained under chapter IV, section (d).

63. The value of minor produce shows a very large increase, which occurs in almost all the districts except Kistna, Bellary, Anantapur and Nellore. In the first two districts, the decrease is attributed to the failure of fruit crops consequent on the drought; in Anantapur to the restrictions placed on the cutting of *langedu* (*Cassia auriculata*) with a view to improve its growth by providing rest from cutting and in Nellore to the complete cessation of the mica-mining enterprise. The increase in the several districts is mainly due to the inclusion of the figures of the three months from April to June 1893. It is also partly due to the increase under "amroy" (rent of mango topes) in Cuddapah; to the larger removal of leaf manure in Tanjore; to better offers obtained for minor produce generally in Salem; to the advance collection of the rent of 1893-94 in the Nilgiris; and to the introduction of the leasing system for the first time in South Canara.

64. The subjoined statement shows the comparative cost of departmental and private working and the net profit under each system. The statement has been worked out on the lines adopted in the report for 1891-92:—

Items.	Measure.	Quantity collected (Forms 69, 70 and 72).	Amount of sale-proceeds (Forms 71 and 72).	Add or deduct increase or decrease in value of stock in hand.	Net financial result (column 4 + or - column 5).
	2	3	4	5	6
Departmental Working—					
Timber	Cubic feet.	288,744	RS. 1,79,592	— 5,821	RS. 1,73,771
Fuel	Do.	2,038,099	1,35,995	— 42	1,35,953
Bamboos	Number.	34,039	4, 44	— 100	4,044
Sandalwood	Cubic feet.	3,556	40,100	+ 21,064	61,164
Minor produce	Maunds.	38,430	48,951	— 20,112	28,839
Private Working—					
Timber	Cubic feet.	2,591,645	2,65,677	..	2,65,677
Fuel	Do.	10,058,749	2,98,154	..	2,98,154
Bamboos	Number.	20,610,728	1,72,312	..	1,72,312
Grazing	..	Not known.	2,11,942	..	2,11,942
Minor produce	Do.	..	5,41,293	..	5,41,293

Items.	CHARGES (FORM 64).			Net profit or loss (column 6 — column 9).	Rate of net profit (column 10 ÷ column 3) per measure in column 2.
	A. Conservancy and Works.	B. Establishment and Contingencies.	Total.		
	7	8	9		
Departmental Working—					
Timber	RS. 62,802	RS. 89,119	RS. 1,51,921	+ 21,850	RS. A. P. 0 1 3
Fuel	84,900	67,485	1,52,385	+ 16,432	+ 0 0 1
Bamboos	1,492	2,056	3,548	+ 496	+ 0 0 3
Sandalwood	3,697	19,898	23,595	+ 37,569	+ 10 9 0
Minor produce	29,088	24,292	53,380	— 24,541	— 0 10 3
Private Working—					
Timber	16,275	36,207	52,482	+ 2,13,195	+ 0 1 4
Fuel	18,268	40,636	58,904	+ 2,39,250	+ 0 0 4
Bamboos	10,555	23,488	34,043	+ 1,38,269	+ 0 0 1
Grazing	12,923	28,750	41,673	+ 1,70,269	Not known.
Minor produce	33,169	73,769	1,06,938	+ 4,34,355	Do.

Except in the case of fuel and minor produce, departmental working shows a net profit and in the case of bamboos this profit is larger than under private working.

65. The sales of produce confiscated for removal without permit by private purchasers are shown in the subjoined abstract:—

ABSTRACT L.—Confiscation.

	During 1891-92.			During 1892-93.		
	Quantity.	Value.	Average.	Quantity.	Value.	Average.
<i>Northern Circle.</i>						
Timber C. ft.	32,036	7,712	0 3 10	20,869	5,922	0 3 6
Firewood	490	490	0 1 2	9,804	639	0 1 1
Bamboos No.	6,930	102	0 0 3	6,909	43	0 0 1
Minor produce. Money value.	..	763	..	..	320	..
Total ..	..	9,067	..	..	6,924	..
<i>Central Circle.</i>						
Timber C. ft.	7,179	2,110	0 4 0	7,946	2,856	0 5 9
Firewood	429	429	0 1 1	22,388	642	0 0 6
Bamboos No.	10,086	180	0 0 2	26,856	52	0 0 0
Minor produce. Money value.	..	327	..	..	423	..
Total ..	..	3,005	..	..	3,952	..
<i>Southern Circle.</i>						
Timber C. ft.	5,682	1,162	0 3 3	7,990	989	0 2 0
Firewood	2,612	142	0 0 10	7,982	318	0 0 8
Bamboos No.	4,900	102	0 0 4	9,614	103	0 0 2
Minor produce. Money value.	..	278	..	..	119	..
Total ..	..	1,534	..	..	1,529	..
<i>Presidency</i>						
Timber C. ft.	44,897	10,993	0 3 11	42,805	9,746	0 3 8
Firewood	15,617	1,061	0 1 1	40,174	1,509	0 0 8
Bamboos No.	21,916	334	0 0 3	41,878	198	0 0 1
Minor produce. Money value.	..	1,368	..	..	852	..
Grand Total ..	..	13,766	..	..	12,406	..

There is an increase in the value of firewood, but a decrease under timber, bamboos and minor produce, the net result being a decrease of Rs. 1,351. This decrease is small and spread over several districts, viz., Gódvári, Kistna, Anantapur, Kurnool, Cuddapah and North Coimbatore.

Section III.—Free grants of forest produce.

66. The following statement shows the value of timber and other produce removed on free permits during the period under report:—

ABSTRACT M.—Free grants.

Districts.	Timber.	Firewood.	Bamboos.	Minor produce.	Total money value.
<i>Northern Circle.</i>					
Ganjam	5,360	..	20,200	..	411
Gódvári	5,550	..	6,600	..	596
Kistna	1,180	..	..	67	171
Anantapur	1,236	..	..	1	119
Bellary	2,320	..	..	108	271
Kurnool	2,940	..	26,500	..	331
Total ..	18,586	..	53,300	176	1,890
Free grants of previous year ..	5,749	915	12,069	46	619
<i>Central Circle.</i>					
Nellore	1,851	..	..	2	280
Cuddapah	520	..	13,500	..	271
Chingleput	..	600	5,700	28	28
North Arcot	3,365	..	..	1	776
South Arcot	520	400	..	..	61
Trichinopoly	1,244	..	1,050	..	90
Salem	778	..	1,892	..	180
Total ..	8,278	1,000	22,143	31	1,636
Free grants of previous year ..	89,070	400	65,384	588	10,033
<i>Southern Circle.</i>					
Madura	1,000	..	..	..	75
North Coimbatore	2,160	..	8,750	..	190
South	5,320	..	5,965	..	41
Nilgiris	3,990	68	2,600	..	650
North Malabar	472	480	..	..	62
Total ..	12,942	543	17,305	..	1,018
Free grants of previous year ..	2,976	36	(a) 5,460	..	(a) 318
Total free grants for 1892-93 ..	39,806	1,543	92,748	207	4,544
Total free grants for 1891-92 ..	97,795	1,351	(a) 82,913	633	(a) 10,970

(a) The Collector of Coimbatore reports that 2,700 bamboos valued at Rs. 17 and given away on free permits during 1891-92 were omitted to be shown in that year's report by a mistake. The number and the value have been now included.

The total results show a large decrease, which occurred chiefly in the Nellore and North Arcot districts in the Central Circle. In the former, the necessity for free grants was less, owing to early rains in consequence of which the damage to houses caused by fire was less. In the latter district, the decrease is due to the fact that no free grants were made to ryots for agricultural implements. In the Northern and Southern Circles there was an increase chiefly in Gódvári, Kistna, Kurnool and Nilgiris. The increase in Gódvári has not been explained. In Kistna it is attributed to the large number of fires that broke out in the early part of the year. In Kurnool it is stated that the fires were more numerous owing to the inclusion of two fire seasons during the year under report. In the Nilgiris large grants were made to the Todas for building huts and to the Badagas for cattle-kraals (sheds) owing to the adverse season at the beginning of the year.

CHAPTER VI.

FINANCIAL RESULTS.

67. The revenue and expenditure in each Circle for the period under report as per Accountant-General's Form No. 64 are shown below in comparison with the actuals of the year 1891-92:—

Items.	Circles.	1891-92.	1892-93.	The three months from April to June 1893.	Total for the 15 months.
Revenue ..	Northern ..	Rs. 4,38,680	Rs. 3,57,732	Rs. 96,337	Rs. 4,54,069
	Central ..	7,01,855	7,01,279	1,62,320	8,63,599
	Southern ..	5,53,680	6,18,201	1,20,949	6,48,160
	Total ..	16,94,215	15,77,212	3,88,606	19,65,818
A. Conservancy and Works ..	Northern ..	1,16,974	1,10,168	29,828	1,39,996
	Central ..	2,47,479	2,31,187	60,030	2,61,217
	Southern ..	(a) 3,08,317	3,36,318	59,498	3,96,316
	Total ..	(a) 6,72,770	6,78,178	1,49,356	8,27,529
B. Establishment ..	Northern ..	1,53,177	1,78,674	47,566	2,26,240
	Central ..	2,16,450	2,47,061	57,064	3,04,125
	Southern ..	2,23,767	2,26,350	54,684	2,81,034
	Total ..	6,93,384	6,52,085	1,59,314	8,11,399
Total of expenditure ..	Northern ..	2,70,151	2,88,842	77,394	3,66,236
	Central ..	4,63,929	4,74,248	1,17,094	5,95,342
	Southern ..	(a) 5,32,074	5,53,168	1,14,182	6,77,350
	Total ..	(a) 12,66,154	13,30,258	3,08,670	16,38,928
Net result ..	Northern ..	+ 1,68,529	+ 68,890	+ 18,943	+ 87,833
	Central ..	+ 2,37,926	+ 2,29,031	+ 46,226	+ 2,68,257
	Southern ..	(a) + 21,606	+ 44,967	+ 16,767	+ 29,200
	Total ..	(a) + 4,28,061	+ 2,46,954	+ 79,986	+ 3,26,890

(a) The figures in the last annual report have since been reduced by the Accountant-General—vide his letter in Government Order, dated 2nd September 1893, No. 3236.

68. For purposes of comparison, the figures of the twelve months ending 31st March 1893 are shown separately. The variations both in the revenue and expenditure have been explained in paragraphs 5 to 8, chapter I, of Board's Proceedings, dated 31st October 1893, Forest No. 744, submitting to Government the budget estimates of the receipts and charges for 1894-95. It will suffice here to say that the revenue for the first twelve months of the period under report showed a decrease of Rs. 1,17,000, while the expenditure showed an increase of about Rs. 5,000 under "A. Conservancy and Works" and about Rs. 59,000 under "B. Establishments." The decrease in the revenue is chiefly in the Northern and Southern Circles, and is due to the following causes:—

(a) Scarcity during the first three months of the year in *Kurnool* which led to reduced demand for forest produce and the subsequent heavy rains which prevented larger removals.

(b) Short removals of produce in *Godavari* and *Kistna*.

(c) The restriction placed on the cutting of *Tangedu* (*Cassia auriculata*) in *Anantapur*.

(d) Less demand for *Sandur* hill grass in *Bellary*.

(e) Smaller quantities of timber sold departmentally in *South Coimbatore* and *South Malabar*.

(f) Less demand for firewood in *Madura*.

(g) Smaller collection of sandalwood in *North Coimbatore*, and

(h) Failure of the cardamom crop in *South Coimbatore*.

69. The increase under "A. Conservancy and Works" is mainly due to increased expenditure (1) on demarcation, consequent on the larger amount of work done in several districts; (2) on compensation for acquiring some of the rokkadayam trees in *Nellore*, and (3) on surveys, owing to a larger staff of surveyors and draughtsmen employed to facilitate the work of Forest settlement in several districts.

70. The increase under "B. Establishments" is mainly due to the disbursement of (1) the pay and allowances of the third Conservator for the whole year instead of for

a portion only as in the previous year; (2) the arrears of pay to the Controlling staff, which was reorganized in 1892-93, with retrospective effect from October 1891; and (3) the cost of supplying Forest Guards' uniforms to a larger number than in 1891-92.

71. The net surplus was about 2½ lakhs at the end of March 1893, but taking the figures of 15 months into consideration, the surplus amounted to over 3¼ lakhs. Looking at the individual Circles, it will be seen that while the Northern and Central Circles showed surplus balances, there was a large deficit in the Southern Circle.

CHAPTER VII.

GENERAL REMARKS.

72. *Forest School*.—The number of officers deputed to undergo training in the Dehra Dun Forest School from each circle is shown in the margin.

Circle.	Number deputed in	
	June 1892.	June 1893.
Northern ..	1	2
Central ..	6	3
Southern ..	6	3
Total ..	13	8

The total number of trained men in the department exclusive of those still under training in the school was 48. Eleven of these were in the Northern Circle, viz., 2 Extra Assistant Conservators, 7 Rangers and 2 Foresters. In the Central Circle there are 18 trained men—2 Extra Assistant Conservators, 11 Rangers and 5 Foresters. In the Southern Circle there were one trained Extra Assistant Conservator, 2 trained Sub-Assistants, 8 Rangers and 8 Foresters.

73. *Conduct of Establishment*.—In the *Northern Circle* two Foresters—one in *Ganjām* and the other in *Kurnool*—were dismissed for falsifying records, one Forester was suspended for misappropriation of Government money and was undergoing trial at the close of the period under report; one was permitted to resign his appointment for bad work, and the services of four acting Foresters were dispensed with for incompetency. In the *Central Circle* one Ranger was reduced. One Forester was dismissed, two were reduced and two suspended for misconduct. In the *Southern Circle* two Rangers were reduced, one Forester was dismissed, another absconded to escape prosecution, and one resigned to avoid punishment.

The number of guards dismissed, reduced or suspended was much the same as usual.

74. *Health of the Establishment*.—The health of the subordinate establishment has been generally bad in all the districts of the Northern Circle except *Anantapur*; in the *Cuddapah*, *Salem* and *Trichinopoly* districts of the Central Circle; and in the *North Coimbatore*, *Madura* and *Tinnevely* districts of the Southern Circle.

Two Foresters in the Northern Circle and one Forester and one Supervisor in the Southern Circle are reported to have died of fever and one Forester in *Bellary* resigned from ill-health.

75. *Elephants*.—Nine wild elephants were captured in the Southern Circle, but three subsequently died. The total number of elephants in the various circles and the number actually employed for inspection purposes, dragging timber, &c., is shown below:—

Circle.	Total number of elephants.	Number actually employed.
Northern ..	3	2
Southern ..	21	15

76. *Inventory of valuable stock*.—The inventory of valuable stock prescribed in Government Order, dated 18th September 1893, No. 920, Financial, will be furnished in future reports.

APPENDIX A.

FOREST Settlement.

District.	Under settlement up to 1891-92.		Added during 1891-92.		Added during 1892-93 (from 1st April 1892 to 30th June 1893).		Total under Settlement.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
1	2	3	4	5	6	7	8	9
<i>Northern Circle.</i>								
Ganjam	41	SQ. MLS. 532	3	SQ. MLS. 3	15	SQ. MLS. 25	59	SQ. MLS. 560
Vizagapatam	6	14	5	$\begin{cases} a+15 \\ b-38 \end{cases}$	13	$\begin{cases} 207 \\ b-3 \end{cases}$	24	308
Godavari	77	1,054	1	$\begin{cases} a-18 \\ b-1 \end{cases}$	37	$\begin{cases} 66 \\ a-8 \end{cases}$	77	1,018
Kistna	65	887	1	$\begin{cases} a+76 \\ b-1 \end{cases}$	8	$\begin{cases} 15 \\ a+39 \\ b-1 \end{cases}$	102	780
Anantapur	45	277	1	$\begin{cases} a+24 \\ b-1 \end{cases}$	44	$\begin{cases} 94 \\ a-1 \end{cases}$	53	400
Bellary	65	820	10	$\begin{cases} a+24 \\ b-1 \end{cases}$	13	$\begin{cases} 141 \\ a+2 \end{cases}$	119	445
Kurnool	15	1,584	5	$\begin{cases} a-144 \\ b-1 \end{cases}$	13	$\begin{cases} 141 \\ a+2 \end{cases}$	38	1,907
Total	314	4,768	23	17	130	578	467	5,358
<i>Central Circle.</i>								
Nellore	128	577	1	$\begin{cases} a-5 \\ b-4 \end{cases}$	18	$\begin{cases} 96 \\ a+38 \\ b-14 \end{cases}$	128	579
Cuddapah	109	1,838	1	$\begin{cases} a+6 \\ b-17 \end{cases}$	42	$\begin{cases} 85 \\ a+21 \\ b-1 \end{cases}$	127	1,864
Chingleput	91	161	23	$\begin{cases} a-5 \\ b-1 \end{cases}$	16	$\begin{cases} 155 \\ a+5 \\ b-11 \end{cases}$	156	197
North Arcot	$\begin{cases} 94 \\ f+1 \end{cases}$	873	5	$\begin{cases} a-5 \\ b-1 \end{cases}$	1	$\begin{cases} 155 \\ a+5 \\ b-11 \end{cases}$	115	994
South Arcot	113	659	1	$\begin{cases} a-9 \\ b-3 \end{cases}$	57	$\begin{cases} 155 \\ a+5 \\ b-11 \end{cases}$	170	802
Tanjore	24	19	1	$\begin{cases} a-1 \\ b-1 \end{cases}$	1	$\begin{cases} 5 \\ a+5 \\ b-11 \end{cases}$	23	19
Trichinopoly	$\begin{cases} 74 \\ d-2 \end{cases}$	197	19	$\begin{cases} a+9 \\ b-1 \end{cases}$	5	$\begin{cases} 155 \\ a+5 \\ b-11 \end{cases}$	96	200
Salem	126	1,116	2	$\begin{cases} a-62 \\ b-1 \end{cases}$	1	$\begin{cases} 155 \\ a+5 \\ b-11 \end{cases}$	128	1,177
Total	758	5,440	49	100	136	383	938	5,023
<i>Southern Circle.</i>								
Madura	81	476	1	$\begin{cases} a+26 \\ a-21 \end{cases}$	76	144	157	626
Tinnevely	39	$\begin{cases} 589 \\ a-178 \\ f-1 \end{cases}$	1	$\begin{cases} a+26 \\ a-21 \end{cases}$	1	1	39	410
North Coimbatore ..	$\begin{cases} 13 \\ a-3 \end{cases}$	1,278	51	$\begin{cases} a+317 \\ a-3 \\ b-8 \end{cases}$	3	20	64	1,604
South Coimbatore ..	10	566	1	$\begin{cases} a+317 \\ a-3 \\ b-8 \end{cases}$	4	8	14	574
Nilgiris	126	311	7	$\begin{cases} a-1 \\ b-1 \end{cases}$	1	16	141	328
North Malabar	$\begin{cases} 13 \\ d-2 \end{cases}$	261	1	$\begin{cases} a+317 \\ a-3 \\ b-8 \end{cases}$	1	1	11	261
South Malabar	21	299	1	$\begin{cases} a+317 \\ a-3 \\ b-8 \end{cases}$	1	1	21	300
South Canara	27	152	1	$\begin{cases} a+317 \\ a-3 \\ b-8 \end{cases}$	1	1	28	135
Total	325	3,253	58	302	92	182	475	4,287
Grand Total	1,892	13,961	180	419	358	1,138	1,880	15,513

a. Rectification of area. b. During settlement. c. Transferred to Anantapur district. d. Unreserved or abandoned.
e. Due to separation or disafforestation or clubbing of blocks. f. Wrong entry in previous returns.

APPENDIX A.

Forest Settlement—cont.

FINALLY notified and constituted reserved forests.

	Up to 1891-92.		During 1891-92.		During 1892-93, (from 1st April 1892 to 30th June 1893).		Total.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
	10	11	12	13	14	15	16	17
<i>Northern Circle.</i>								
Ganjam	8	85	1	$\begin{cases} 29 \\ +10 \end{cases}$	4	10	9	114
Vizagapatam	1	4	8	$\begin{cases} 73 \\ +10 \end{cases}$	2	24	5	24
Godavari	34	345	10	$\begin{cases} 106 \\ +10 \end{cases}$	7	183	44	442
Kistna	44	346	10	$\begin{cases} 106 \\ +10 \end{cases}$	7	183	61	633
Anantapur	5	14	3	$\begin{cases} 1 \\ +11 \end{cases}$	17	70	25	161
Bellary	25	77	10	$\begin{cases} 29 \\ +11 \end{cases}$	26	109	61	214
Kurnool	3	242	7	$\begin{cases} 826 \\ +11 \end{cases}$	4	658	14	1,726
Total	120	1,113	39	1,089	60	1,052	219	3,254
<i>Central Circle.</i>								
Nellore	88	160	17	94	11	78	116	341
Cuddapah	20	356	18	58	37	551	70	965
Chingleput	59	126	13	20	13	9	85	155
North Arcot	50	430	16	83	22	176	88	688
South Arcot	44	148	12	16	37	221	93	385
Tanjore	17	9	1	$\begin{cases} 1 \\ +03 \end{cases}$	2	7	20	16-03
Trichinopoly	39	141	27	18	6	31	72	190
Salem	78	684	6	78	22	205	106	967
Total	395	2,963	105	367-03	150	1,277	650	3,707-03
<i>Southern Circle.</i>								
Madura	73	379	6	$\begin{cases} 109 \\ -21 \end{cases}$	5	12	84	479
Tinnevely	29	428	9	$\begin{cases} 135 \\ -178 \end{cases}$	1	21	39	410
North Coimbatore ..	$\begin{cases} 6 \\ +3 \end{cases}$	119	3	$\begin{cases} 369 \\ -3 \end{cases}$	39	12	45	497
South Coimbatore ..	10	566	1	1	1	10	566	
Nilgiris	53	201	42	6	27	26	122	233
North Malabar	7	119	1	1	1	32	8	151
South Malabar	6	39	2	8	4	7	6	39
South Canara	16	85	2	8	4	7	22	100
Total	$\begin{cases} 200 \\ +3 \end{cases}$	1,936	62	607	77	68	336	2,475
Grand Total	713	5,112	206	2,063-03	287	2,261	1,205	9,436-03

* By revised estimate or correction of area. + Transferred to Anantapur.
‡ Due to separation or clubbing of blocks.

APPENDIX A.

Forest Settlement—cont.

STATEMENT of balance of lands still under settlement.

	Of lands in																Total balance.	
	1884-85.		1885-86.		1886-87.		1887-88.		1888-89.		1889-90.		1890-91.		1891-92.		1892-93.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
	36	37																
Northern Circle.																		
Ganjam	23	394	3	22							1	6	2	3	3	15	25	50
Vizagapatam											27	320	1	38			207	19
Godavari			2	182	1	8	2	10			2	21	2	14		37	62	41
Kistna																8	15	28
Anantapur	1	34			10	149	7	88	2	13					2	16	48	95
Bellary	10	70													5	25	13	141
Kurnool																		
Total ..	34	498	5	204	11	157	10	122	5	63	30	355	9	49	15	111	129	545
Central Circle.																		
Nellore	2	67	3	130	2	32											18	120
Cuddapah	15	612			24	267					4	4	4	2	21	19	42	17
Chingleput											6	114	2	17			16	85
North Arcot							3	90									57	155
South Arcot			4	64	1	3	1	4	1	7			13	194				
Tanjore							1	3	2									3
Trichinopoly															24	10		24
Salem	2	12	1	18			3	8	5	53	3	16	6	40	2	65		22
Total ..	19	691	8	200	7	302	8	105	8	60	38	13	134	25	253	47	94	377
Southern Circle.																		
Madura																	73	146
Tinnevely																		
North Coimbatore																	3	20
South Coimbatore																	4	8
Nilgiris			1	64							6	13			4	2	9	16
North Malabar	2	70	1	40														
South Malabar																		
South Canara			2	29														
Total ..	2	70	4	133			11	299	5	242	8	18	3	502	16	307	90	191
Grand Total ..	55	1,259	17	537	38	459	29	526	18	365	38	51	507	37	804	78	512	352

a. These are correct figures as now reported by the Collector.

APPENDIX A.

Forest Settlement—cont.

Statement of balance of lands still under settlement—cont.

	Classification of balance under columns 36 and 37.															
	Settled and reported on.								Settled, but not reported on.				Settlement proceeding.			
	Notified under section 16 during 1892-93, but with effect only from 1893-94, i.e., after 30th June 1893.		With Board or Government awaiting publication of notification under section 16.		Returned by the Board for revision and remaining either with Collector, District Forest officer or Forest Settlement officer.		Total settled and reported on.		Settled, but not reported on.		Settlement proceeding.		Settled, but not reported on.		Settlement proceeding.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
Northern Circle.																
Ganjam					1	4	20	344	21	348	17	55	12	48		
Vizagapatam					3	30			3	30	1	10	15	239		
Godavari	6	56	2	15					8	71	21	250	4	220		
Kistna											4	26	37	71		
Anantapur	6	52	9	123	1	7			16	182	6	103	6	14		
Bellary	4	27	2	33		0		58	12	118	2	7	44	105		
Kurnool											1	15	18	166		
Total ..	16	135	17	205	27	409	60	749	52	496	136	559				
Central Circle.																
Nellore	1	2							1	2	6	227				
Cuddapah	27	105	6	59	15	642	48	807	3	17	6	175				
Chingleput	9	8	1	2					10	10	2	59	31			
North Arcot	6	114	6	95	1	27	13	236	2	19	12	51				
South Arcot	5	20			4	17	9	37	28	124	45	256				
Tanjore	1	3							1	3	2	38				
Trichinopoly											24	10				
Salem	4	19	2	19	7	69	13	97	6	94	3	19				
Total ..	53	272	15	175	27	745	95	1,192	42	482	151	542	38			
Southern Circle.																
Madura	12	13							12	13	6	55	127			
Tinnevely																
North Coimbatore	6	300	3	4	1	44	9	348	7	739	3	20				
South Coimbatore																
Nilgiris	6	10	1						7	10	3	16	9	69		
North Malabar											3	110				
South Malabar											15	261				
South Canara	3	5							3	5	3	80				
Total ..	26	323	4	4	1	44	31	376	37	1,162	71	224				
Grand Total ..	95	735	36	384	55	1,198	186	2,317	131	2,140	358	1,625	38			

APPENDIX C.

RESERVED lands not under settlement in square miles.

District.	Up to 1891-92.	Added during 1891-92.	Added during 1892-93 (April 1892 to 30th June 1893).	Total.	Transferred for settlement.				Balance remaining reserved lands not under settlement.
					Up to 1891-92.	During 1891-92.	During 1892-93 (1st April 1892 to 30th June 1893).	Total.	
1	2	3	4	5	6	7	8	9	10
<i>Northern Circle.</i>									
Ganjam	548	3	15	566	532	3	25	560	6
Vizagapatam ..	14	82	207	303	14	82	207	303	..
Godavari	1,054	b - 38	b - 3	1,013	1,054	b - 38	-	1,013	..
Kistna	687	a - 18 c - 2 d - 1	a - 1 190	855	687	a - 18 b - 1	a - 3 66	730	125
Anantapur	277	a + 77	a + 39 a - 7 b - 1	400	277	a + 77	a + 39 a - 7 b - 1	400	..
Bellary	382	a + 9 c - 1	a - 1 94	507	320	a + 9 c - 1	a - 1 94	445	62
Kurnool	1,884	a - 144	a + 2 141	1,907	1,884	a - 144	a + 2 141	1,907	..
Total	4,846	15	690	5,551	4,768	17	573	5,358	193
<i>Central Circle.</i>									
Nellore	596	a - 5	a + 2 b - 4	589	577	a - 5	a + 2 b - 4	570	19
Cuddapah	2,018	a + 6	a + 45 a - 14 17	2,067	1,838	a + 6	a + 38 a - 14 17	1,964	103
Chingleput	182	13	a + 21 b - 2 d - 2	212	161	19	a + 21 b - 1 d - 2	197	15
North Arcot	894	a - 5	a + 2 b - 2 d - 2	995	873	a - 5	a + 2 b - 1 d - 2	994	1
South Arcot	810	a - 9	a - 6 7	802	659	b - 9	b - 3 155	802	..
Tanjore	25	..	a - 6	25	19	..	b - 3	19	6
Trichinopoly ..	236	a + 1 9	a + 5 b - 1 d - 11	239	197	a + 1 9	a + 5 b - 1 d - 11	200	39
Salem	1,254	a - 1 36	c + 1 ..	1,290	1,116	b - 1 62	..	1,177	113
Total	6,015	66	136	6,210	5,440	100	383	5,923	296
<i>Southern Circle.</i>									
Madura	493	a + 26 a - 21	139	637	476	a + 26 a - 21	144	625	12
Tinnevely	589	a - 178	..	411	589	a - 178 b - 1	..	410	1
North Coimbatore ..	1,949	a - 3 b - 8	15 d - 222	1,744	1,278	a - 3 b - 8	317 20	1,604	140
South Coimbatore ..	584	..	a - 1 8	591	566	..	8	574	17
Nilgiris	384	1	a - 1 24	408	311	1	16	328	80
North Malabar ..	274	..	a - 2	272	261	..	..	261	11
South Malabar ..	328	..	a - 2	330	299	a + 1	..	300	30
South Canara ..	1,024	..	a - 2	1,024	152	a - 11	a - 1 1	135	889
Total	5,625 a - 178	8	38	5,417	3,753	302	182	4,237	1,180
Grand Total ..	16,308	91	788	17,187	13,961	419	1,138	15,518	1,669

a. By rectification of area. b. During settlement. c. Error in previous year's abstracts. d. Area unreserved.

APPENDIX B.

CAUSES OF DELAY IN THE SUBMISSION OF FINAL NOTIFICATIONS OF FOREST RESERVES.

Districts.	CAUSES OF DELAY.															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	17
	Notified under section 16 during 1892-93, but with effect only from 1893-94, i.e., after 30th June 1893.	With Board or Government awaiting publication of notification under section 16.	Pending preparation of maps and completion of demarcation.	Awaiting disposal of appeals.	Awaiting carrying out of exchanges of lands.	Only recently notified under section 4.	Awaiting payment of compensation.	Awaiting settlement of claims under enquiry.	Awaiting District Forest-officer's answers to claims, preparation of boundary descriptions, and acquisition of lands, &c.	Settled, but final report pending with the Collector or under preparation.	Pending revision of notifications.	Awaiting replies to references made to Collectors and Board.	Awaiting cancellation of the initial notification.	Awaiting inspection by the Forest Settlement-officer.	Other causes, i.e., awaiting return of records from District Courts, awaiting information from Tahsildars, &c.		
Ganjam	95	26	38	25	7	71	4	81	40	64	21	7	2	155	9	675	
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Godavari	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Kistna	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Anantapur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Bellary	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Kurnool	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Cuddapah	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
North Arcot	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
South do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Trichinopoly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Salem	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Madras	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
North Coimbatore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
South do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Nilgiris	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
North Malabar ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
South do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
South Canara ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

APPENDIX D.

STATEMENT showing the number of forest offences reported during the 15 months ending with 30th June 1893 and the particulars of their disposal.

Districts.	1	2	3	4	5	6	7	8	9	Balance of cases undisposed of		13	14	15	16	17	18
										With Magistrates.	With Forest-officers.						
		Cases pending at the beginning of the period.	Cases reported during the period.	Total number of cases for disposal (columns 2 and 3).	Number of cases withdrawn.	Number of cases compounded.	Number of cases taken into court and dealt with by the Magistrate during the period.	Total number of cases disposed of (columns 5, 6 and 7).	Number of persons concerned in cases disposed of.			Percentage of cases withdrawn to cases disposed of.	Percentage of cases compounded to cases disposed of.	Number of convictions.	Number of acquittals.	Percentage of acquittals disposed of by Magistrates.	Amount of compensation fees realized for cases compounded.
Ganjam .. {1891-92 .. {1892-93 ..	..	60 .. 136	140 .. 281	200 .. 366	.. 20	.. 33	65 .. 149	65 .. 192	217 .. 614	..	..	135 .. 174	.. 12	53 .. 90	12 .. 59	18 .. 39	250 .. 289
Visagapatnam .. {1891-92 .. {1892-93 ..	..	168 .. 90	663 .. 764	821 .. 854	.. 7	273 .. 244	453 .. 577	731 .. 838	838 .. 1,184	..	..	90 .. 26	38 .. 29	408 .. 530	45 .. 47	10 .. 6	787 .. 635
Goddavari .. {1891-92 .. {1892-93 ..	..	69 .. 6	29 .. 628	98 .. 632	..	13 .. 13	87 .. 265	92 .. 268	177 .. 350	351 .. 351	13 .. 13	6 .. 364	5 .. 5	13 .. 225	74 .. 30	85 .. 12	1,942 .. 201
Kistna .. {1891-92 .. {1892-93 ..	..	29 .. 171	501 .. 709	530 .. 880	3 .. 31	171 .. 225	185 .. 306	359 .. 662	1,329 .. 2,070	..	..	171 .. 318	1 .. 6	130 .. 251	55 .. 55	30 .. 18	2,693 .. 2,052
Anantapur .. {1891-92 .. {1892-93 ..	..	12 .. 38	113 .. 264	125 .. 302	..	71 .. 71	63 .. 203	87 .. 274	227 .. 908	..	..	38 .. 28	.. 26	55 .. 166	37 .. 18	12 .. 18	372 .. 869
Bellary .. {1891-92 .. {1892-93 ..	..	2 .. 5	164 .. 360	166 .. 365	..	34 .. 31	127 .. 319	161 .. 350	386 .. 637	15 .. 15	..	5 .. 15	21 .. 9	101 .. 260	26 .. 18	20 .. 18	188 .. 542
Kurnool .. {1891-92 .. {1892-93 ..	..	19 .. 23	400 .. 374	419 .. 397	..	83 .. 35	313 .. 353	306 .. 388	1,105 .. 1,331	..	2 .. 2	28 .. 9	21 .. 9	231 .. 215	82 .. 39	26 .. 39	1,346 .. 675
Nellore .. {1891-92 .. {1892-93 ..	..	20 .. 22	114 .. 148	134 .. 170	.. 5	14 .. 57	68 .. 145	112 .. 145	383 .. 383	7 .. 7	18 .. 18	22 .. 25	13 .. 39	50 .. 65	48 .. 18	49 .. 22	71 .. 283
Cuddapah .. {1891-92 .. {1892-93 ..	..	22 .. 176	566 .. 713	623 .. 891	..	155 .. 248	265 .. 383	450 .. 611	1,181 .. 1,197	..	..	178 .. 280	41 .. 41	210 .. 303	55 .. 80	21 .. 16	1,638 .. 2,168
Chingelput .. {1891-92 .. {1892-93 ..	..	25 .. 25	174 .. 700	175 .. 712	.. 28	200 .. 321	150 .. 321	150 .. 321	262 .. 653	2 .. 2	..	25 .. 9	62 .. 79	95 .. 97	65 .. 38	37 .. 28	23 .. 3,761
North Arcot .. {1891-92 .. {1892-93 ..	..	73 .. 73	884 .. 884	957 .. 957	.. 54	518 .. 518	364 .. 364	936 .. 936	1,675 .. 1,675	21 .. 21	..	73 .. 21	56 .. 56	230 .. 230	134 .. 134	37 .. 37	5,221 .. 5,221
South Arcot .. {1891-92 .. {1892-93 ..	..	360 .. 491	1,046 .. 1,090	1,406 .. 1,681	183 .. 333	478 .. 543	254 .. 518	915 .. 1,394	2,365 .. 4,418	73 .. 73	116 .. 116	491 .. 187	52 .. 24	214 .. 433	40 .. 95	16 .. 16	3,125 .. 3,268

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Tanjore	{1891-92 .. {1892-93 ..	12 .. 3	18 .. 56	30 .. 69	.. 9	14 .. 30	13 .. 13	27 .. 62	121 .. 175	.. 7	..	3 .. 7	52 .. 60	8 .. 9	5 .. 4	38 .. 31	67 .. 1,518
Trichinopoly	{1891-92 .. {1892-93 ..	54 .. 63	949 .. 946	1,003 .. 1,009	.. 9	645 .. 741	256 .. 166	940 .. 906	1,612 .. 1,705	.. 1	102 .. 102	63 .. 103	69 .. 82	242 .. 100	53 .. 56	18 .. 36	2,188 .. 3,393
Salem	{1891-92 .. {1892-93 ..	32 .. 32	1,116 .. 1,033	1,148 .. 1,065	61 .. 88	498 .. 302	666 .. 302	1,115 .. 1,022	4,710 .. 3,798	.. 43	..	33 .. 43	45 .. 30	435 .. 502	121 .. 130	22 .. 21	4,109 .. 2,374
Madura	{1891-92 .. {1892-93 ..	2 ..	28 .. 105	30 .. 105	1 .. 4	6 .. 1	23 .. 89	30 .. 94	277 ..	..	..	.. 11	3 .. 4	13 .. 40	10 .. 43	43 .. 55	99 .. 15
Tinnevely	{1891-92 .. {1892-93 ..	9 .. 20	162 .. 422	171 .. 442	9 .. 15	2 .. 37	146 .. 380	156 .. 432	405 .. 815	..	..	15 .. 10	6 .. 3	97 .. 298	48 .. 82	33 .. 22	432 .. 1,349
North Coimbatore	{1891-92 .. {1892-93 ..	40 .. 49	181 .. 329	221 .. 378	11 .. 9	96 .. 172	65 .. 88	172 .. 269	670 .. 871	..	..	49 .. 109	6 .. 3	31 .. 55	34 .. 33	52 .. 38	1,305 .. 2,372
South Coimbatore	{1891-92 .. {1892-93 ..	59 .. 46	448 .. 438	507 .. 484	30 .. 34	289 .. 238	142 .. 179	481 .. 451	1,396 .. 1,647	.. 10	..	46 .. 33	6 .. 8	63 .. 53	119 .. 155	23 .. 24	1,683 .. 2,950
Nilgiris	{1891-92 .. {1892-93 ..	36 .. 36	126 .. 206	129 .. 242	2 .. 19	68 .. 145	23 .. 51	93 .. 215	297 .. 571	..	27 .. 27	36 .. 27	2 .. 9	73 .. 67	16 .. 37	30 .. 14	593 .. 1,133
North Malabar	{1891-92 .. {1892-93 ..	..	25 .. 64	25 .. 64	..	21 .. 37	4 .. 16	25 .. 53	75 .. 100	..	..	.. 11	84 .. 70	2 .. 13	2 .. 3	50 .. 19	87 .. 151
South Malabar	{1891-92 .. {1892-93 ..	.. 1	18 .. 14	18 .. 15	..	.. 1	17 .. 14	17 .. 15	46 .. 27	..	..	.. 1	.. 7	12 .. 11	5 .. 3	30 .. 21	.. 20
South Canara	{1891-92 .. {1892-93 ..	61 .. 49	403 .. 831	464 .. 880	.. 31	97 .. 194	318 .. 475	415 .. 700	592 .. 1,045	.. 135	..	49 .. 180	23 .. 4	236 .. 410	82 .. 65	26 .. 14	726 .. 1,698
Total	{1891-92 .. {1892-93 ..	1,036 .. 1,556	8,124 .. 10,905	9,160 .. 12,461	300 .. 698	3,512 .. 4,106	3,796 .. 5,676	7,608 .. 10,478	19,502 .. 26,694	..	..	1,552 .. 1,983	4 .. 6	2,868 .. 4,456	928 .. 1,218	24 .. 21	27,385 .. 33,493

* The number pending with Magistrates and that with Forest-officers has not been separately shown.

† Correct figure as now reported by the Collector.

APPENDIX E.

STATEMENT showing the area of forest reserves closed to grazing, the area grazed over and the average number of cattle grazed per square mile in 1892-93.

Districts.	Area of reserved forests and reserved lands.	Area closed to grazing.	Area open to grazing.	Area grazed over.	Number of cattle and sheep admitted (d).	Average number of cattle and sheep per square mile.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
1. Ganjam	667	179	388	not given	15,826	(a) ..
2. Gôdâvari	1,014	not given	not given	294	17,139	(a) ..
3. Kistna	855	Do.	Do.	139	44,085	(b) 317
4. Anantapur	400	161	239	not given	10,099	(a) ..
5. Bellary	508	356	150	102	8,139	(c) 80
6. Kurnool	1,900	279	1,627	not given	119,492	(a) ..
7. Cuddapah	2,067	..	2,067	Do.	43,240	(a) ..
8. Chingleput	212	..	212	Do.	22,677	(a) ..
9. North Arcot	906	615	481	Do.	81,447	(a) ..
10. South Arcot	802	..	802	Do.	88,765	(a) ..
11. Tanjore	24	..	34	Do.	4,107	(a) ..
12. Trichinopoly	239	..	239	69	9,558	138
13. Salem	1,290	57	1,233	not given	232,198	(a) ..
14. Madura	637	not given	not given	Do.	6,503	(a) ..
15. Tinnevely	411	Do.	Do.	177	19,744	111
16. North Coimbatore	1,744	Do.	Do.	not given	188,650	(a) ..
17. South Coimbatore	591	33	558	Do.	76,727	(a) ..
18. Nilgiris	408	..	408	Do.	11,244	(a) ..

NOTE.—In Visagapatam, North and South Malabar, the demand for grazing in forest reserves was very limited as large areas outside were available for free grazing. In Nellore and South Canara, grazing was leased out.

(a) Accurate information is not available.

(b) Grazing is better regulated here than elsewhere.

(c) Sufficient pasture was available outside the reserves on account of good rains.

(d) Most of the Collectors have not reported the number of sheep separately from that of cattle.

APPENDIX F.

NATURAL AND ARTIFICIAL REPRODUCTION—IMPROVEMENT, FELLINGS, EXPERIMENTS AND EXOTICS.

NORTHERN CIRCLE—(EXTRACTS FROM CONSERVATORS' REPORTS).

(F) Natural reproduction.

34. *Ganjam*.—In Goomsur, the reproduction of the chief trees, is all that can be wished. There is an abundance of seedlings even in the unprotected blocks. On the Mohiri hills, in the Berhampur range, reproduction continues to be discouraging chiefly owing to the reckless cutting in former years. The only hope for restoration on these hills is to close large area to all cutting and grazing, but it was found impossible during the year to carry out this work, for to nominally close a forest without proper means of making the closure effective, would be worse than useless.

Visagapatam.—The reproduction in the Peddapalli reserve as a result of continuous protection is very satisfactory, and there is a most marked contrast between its condition now and three years ago. In Palkonda, similarly in the 50 square miles of reserves on the hills facing

the northern portion of the ordinary taluk, with the combined effect of good seasons and absence of fires, the growth is everywhere luxuriant. The sal seeding season has not turned out a good one. This is unfortunate, for the abundant rain of the present monsoon would have been most favorable.

Gôdâvari.—The natural reproduction of valuable trees both from seed and coppice is excellent in the upper taluks. The well-grown poles of teak and *Anogeissus latifolia* are specially remarkable in the Mittapalli reserve. The soil and reproduction in the Papikonda reserve are good. The present growth, except in the plateau itself, forms a dense cover overhead. In the delta range, especially in the Coringa reserve, the parts nearer the main land are said not to reproduce so well as formerly owing to the surplus of fresh water introduced by the system of irrigation. This is also said of Upputeru. The growth in both reserves, though much larger, is not so valuable as in Kandikuppa where the mangrove is pure and not mixed with *avicennia* and other inferior species as in other two reserves. In the Yernagudem reserve abundant reproduction was noticed from coppice of réla (*Wrightia tinctoria*), *Diospyros melanoxylon* and *Strychnos nux-vomica* and at the same time a marked absence of seedlings. In the old Podu of Bavikulapadu reserve, a good reproduction was also noticed from coppice of *Soyndia febrifuga*, *Chloroxylon swietenia*, *Terminalia tomentosa* and *Strychnos nux-vomica*.

It is to be regretted that a special report has not been made on the regrowth in Bhadrachalam, for the stock of large timber is elsewhere reported to have been almost worked out.

Kistna—Seedlings.—The young yepi (*Hardwickia binata*) is coming prolifically in some parts of Bollapalli reserve closed to grazing and strictly fire-protected. In the Mutukur reserve, on the other hand, where protection from grazing and fire was introduced, there are no young seedlings.

Prickly-pear in the salt marshes appears to be of great assistance to the seedlings of jungle trees and the formation of scrub jungles on the most desolate wastes. On the barren sand Yilakurru (sudda) and prickly-pear first take root and between them seem to absorb the salt from the marshes to bind the sand and to form a soil with their own debris in which seeds of fresh trees germinate and flourish until a regular scrub is formed, consisting of *Melia*, *diospyros*, *Chloroxylon*, *Acacias*, *Albizias*, *Sapindus*, and sometimes dates and palmyras. The whole transition from barren "Parra" (marshes) to scrub jungle 20 feet high is to be seen in the waste land of Putumeraka village, Répalle taluk.

Flowering and fruiting.—Taking it all round, the past year was a bad season for flowering and fruiting. Under the head of minor produce there was a loss on this account, as mangoes, tamarind, babul and soap-nuts in some places gave a short crop. With regard to forest trees proper, yepi (*Hardwickia*) was neither seen in flower nor fruit, whilst *Chloroxylon swietenia*, *Melia* and *Pongamia* produced a prolific crop of flower and fruit.

Coppice.—In the Nidamaru reserve, coppice shoots from the stools of babul trees felled in January had by March reached a height of from 1½ to 2 feet. A sample area cut at Piligundla in Bollapalli reserve in 1891 showed in January 1893 coppice shoots of yepi of an average height of 4 feet.

Situation of certain trees.—From the sample areas taken in the Bollapalli and Mutukur reserves it was found that *Swietenia* and *Anogeissus* grow in greatest numbers on the top of the hills, yepi (*Hardwickia*) on the lower slopes and *Albizia amara* on the plains. Yepi seems to prefer shales to other soils.

Rates of growth.—A few samples of *Hardwickia* and *Chloroxylon* gave the following statistics:—

Diameter.	RINGS (AVERAGE).	
	Hardwickia.	Chloroxylon.
2½ inches	...	25
3 "	...	29
3½ "	...	33
4 "	...	20
4½ "	...	32
5 "	...	38
6 "	...	36
8 "	36	...

The rate of growth of babul in Nidamaru reserve has been shown in chapter III. An examination of numerous specimens of mangrove showed 25.7 rings per inch of radius on the average. The "Indian Forester" addressed on the subject explained that there were spurious rings. From numerous inquiries later on in various localities, information was given showing that, on the average, mangrove grows from 2 to 3 feet in height per annum and from ½ to 1 inch diameter.

Record of notes.—A Flora of the Kistna district was started by Mr. Alwar Chetty and continued by Mr. Lushington, in which notes of the above kind are recorded.

Kurnool.—In parts of the fire-protected blocks of the Nallamalais, reproduction is satisfactory especially on the banks of streams and in low-lying moist localities. In the open portions there are large numbers of young plants appearing as seedlings at first sight, but are, on closer inspection, found to be stool shoots and root-suckers, the latter predominating and are in a great measure the result of the annual fires, but they are very short-lived, flourishing until the following season's fires (which, it may be here remarked, take place with the utmost regularity) when they are almost entirely destroyed, giving place, however, to a fresh crop shortly after the fires have passed over the ground. This state of things goes on year after year without intermission, so that the present condition of the forests generally is scarcely such as could be desired.

With a large population of *Chenzus* domiciled in a forest of immense area, in which the grass grows to a height of 5 feet and more, it is almost impossible to exclude fires, especially as the *Chenzus* are the most impracticable forest tribe in the Presidency. There has been general seeding of *Lendrocalmus strictus* in the Sirvel, Nandyal and Nandikotkur ranges. The seed has germinated most profusely, so that the fresh generation will, in all probability, far exceed in density the parent clumps. In the Yerramalais, little or no reproduction has been noticed, but this is probably due to the excessive grazing and to an absence at present of a sufficiently rigid protection against cattle trespass.

Bellary.—Reproduction of *Hardwickia binata* in the Mallapanagudi block was satisfactory and there are numerous seedlings. The bark of this species was being eaten away by white-ants, and with the approval of the Conservator orders were issued to scrape down the white-ants and apply kerosine-oil solution to the bark. This is being tried. On account of effective protection, reproduction in most cases, notably in Adoni, West and East, and Ganekallu in the Adoni taluk, was encouraging.

In the Sandur range, reproduction in the Northern slopes of Ramandrug is specially good. In other parts of the Dregg the seedlings are scattered in valleys. The coppice shoots from stools in some of the compartments, where operations had been carried out, continue to flourish. The coppice reproduction in sample acres of the Ramandrug forest felled for the purpose of collecting statistics is fair. In the other two ranges it is not satisfactory, but possibly better than in the previous year.

Anantapur.—Reproduction in this district is backward owing to extreme dryness and to want of cover. The chief timber tree of the present and future is yepi (*Hardwickia binata*), with which the District Forest-officer has been making experiments. The tree bears seed abundantly, which the District Forest-officer has been making experiments. The tree bears seed abundantly, and the seeds generally germinate and may be found as seedlings in Muchukota and other yepi forests, comparatively thick, soon after the rains. They dry down and disappear in the following hot weather, but apparently do not, at least not all of them, for seedlings of three or four years were found and that had dried down each year as could be ascertained from the gnarled and twisted appearance of their stems at ground level. It is believed that if they had shade in the hot weather, the seedlings would establish themselves without any difficulty and that even under present conditions they will in time establish themselves, for they are enlarging their root system and coming up more vigorously every year.

A small experiment was tried in Somandapalli reserve near Penukonda, and yepi, tangedu, and castor seeds were sown in little patches fencing the plot with thorns and beyond that they were not nursed in any way. The castor was sown to give some shade to the young seedlings, but unfortunately they no sooner came up than they were devoured by a caterpillar. The tangedu came up very well and the yepi fairly well, but it all disappeared before the end of the hot weather. A few of the seedlings, however, have sprouted again, and are at the present moment growing vigorously; it remains to be seen whether they will establish themselves or die out.

Yepi is generally found pure often on the very driest soil and more often on a south and south-west than on a north and north-east aspect. It sheds its leaves during the hot weather, but this year the leafless period among the trees near Bukkapatnam did not last more than a fortnight, while at Muchukota it lasted for from six weeks to two months. The trees cut at Muchukota have been coppiced in past years and those at Bukkapatnam pollarded for their leaves and fibre, so that there is scarcely a sound seedling tree in the district and the people scarcely seem to recognise it as a timber tree at all.

(F) Artificial reproduction.

The addition during the year to plantations, topes and cultural operations, were respectively 5, 25 and 34½ acres and the expenditure incurred amounted to Rs. 6,782 (according to the Accountant-General's statement, but Rs. 6,520 according to the district figures) against Rupees 5,485 incurred in the previous year. The additions made were petty and are not noteworthy. The increase in the expenditure accounts for the extension of the operations for 15 months. The progress in the districts is, however, noticed below:—

Ganjām.—Sanction was received too late to start the Agusti Nowgam Casuarina Plantation, but a nursery was made. It has 2 lakhs of seedlings ready for transplantation during the rains of 1893. The miscellaneous plantings done during the year were planting 7,000 casuarina seedlings in the Chatrapur reserve and 10,000 palmyra seeds in Chatrapur, Ballipagada and Podara reserves. The casuarinas were planted in the Chatrapur reserve in August 1892. No watering was done after planting, and at the end of the hot season of 1893, 3,000 plants were living which gives an expenditure of Rs. 10 an acre of successful planting. The season, however, was an exceptionally favorable one as there was plenty of rain during the hot weather. This experiment is being continued and is carefully watched. The great expense of regular plantations is of course the watering, and if fair results can be obtained without watering, it will be a decided step in advance.

Vizagapatam.—During the year two topes, which were previously protected at no special cost, were extended and notified preliminarily under section 4. Since November a gardener for each has been put on. The topes in question have been fenced. 10,000 palmyra seeds put down in these have come up exceedingly well, but of the 2,000 teak seeds put down only half have germinated. In addition to these, a nursery was laid out in the Chinnamangalapuram tope and filled with seeds of *Säl terminalia*, *Anogeissus*, *Ironwood soyimda*, *Lebedicropsis* and other species as an experiment.

Goddavari.—In the Narsapur plantation, 1,400 casuarina seedlings were transplanted from the nursery beds and the area planted being 3 acres. No work was done in the Bendamurlanka plantation, as the seedlings were mischievously destroyed. A working plan was sanctioned for the former. There are neither topes nor cultural operations.

Kistna.—There was a great mortality among the casuarinas of Bapatla and Gudivada taluks from drought. The seedlings of Vedullapalli reserve completely withered away and full-grown trees died in Wadarevu, Bomminapad, Vanudhuru and Allinagaram plantations. The Casuarina Kara Plantation was entirely destroyed by a borer caterpillar and the trees had to be sold "en bloc" standing. More than 95 per cent. of the trees were attacked and it was useless to leave the others. It is proposed to re-stock the area (only 21 acres) with cashew-nut instead of casuarina, as this is likely to pay better for such a small area and a change of crop is desirable. The plantation of *Eugenia* and *Terminalia arjuna* in Weld reserve has not been a success, but the *Dalbergia* ("Sissu") planted two years later is thriving and outtops the *Eugenia* and *Terminalia arjuna*. The growth of sissu is most encouraging and it may almost be taken as settled that this tree can be established as a paying crop in this locality. Teak, yepi and other seeds were planted in the blanks caused by last year's failures in the Bezwada reserve at a cost of Rs. 135.

Kurnool.—By way of experiment bamboo seedlings were planted 500 at Pudur and 500 at Tekulakonda. 200 of the former and 150 of the latter are reported to be in good condition. Some grown to a height of 2 to 3 feet, and the rest destroyed by porcupines. Of the broadcast sowings of 1889-90 about 250 plants of an average height of 7 to 8 feet are to be seen in Tuvakonda, part of the Jaladurgam reserve, while a few of the same year's sowings are also visible in Tekulakonda of an average height of 6 feet. The cost incurred on these two plantations was Rs. 76.

Bellary.—The notes under this head have better come under "experiments and exotics."

Anantapur.—No planting was undertaken during the year.

(G) Works of improvements.

36. In Ganjām.—Creepers were cut over an area of 690 acres in the Chandragiri and 1,321 in the Gullery reserves at an average cost of As. 2-9 per acre.

In Vizagapatam, Goddavari, Kurnool and Bellary none were carried out. In Kistna creeper-cutting in previous years did not seem to be so successful as its cost should justify. Seigniorage is levied on creepers and it is proposed to try the effect of removing the seigniorage in certain areas. It is doubtful whether any real good can be expected by removing the prickly-pear in the Muthayapalem reserve, at all events sufficient good to justify the cost. Better trees already appear to dominate it, and as the forest grows thicker and thicker the chances are that the prickly-pear will become less and less.

In Anantapur.—Prickly-pear was cleared over an area of 10 acres of Khojjepalle at a cost of Rs. 120. Except in a few instances it is considered premature to begin even improvement outtings yet, as all the cover available on the ground should be necessarily kept.

37. Fencing.—In Ganjām 14 miles of fencing with screw-pine was done during the year at a cost of Rs. 180. The Ballipagoda reserve was completely fenced and a greater portion of Chatrapur block No. 2.

In Vizagapatam, the Chinna Mangalapuram tope was fenced with a bank and ditch planted with aloe seedlings at a cost of 2 annas per yard (1,390 yards). The Garugupalli tope was also partially fenced at As. 2-3 per yard (81 yards).

The Bezwada reserve was fenced with a trench and mound and prickly-pear at a cost of Rs. 376 and the gaps made by the rains will be repaired from the amount sanctioned. The Nidmaru reserve should be fenced necessarily with screw-pine as fellings have taken place to protect the coppice shoots. The Timmapuram tope was also partly fenced.

38. *Improvement thinnings and fellings.*—None were undertaken in the districts of Ganjam, Vizagapatam Godavari and Kistna. In Kistna it is explained that no means exist for exporting the produce if undertaken in Kondavid and Kondapalli which do not contain specially valuable kinds of trees to be ameliorated by the removal of the inferior kinds. It is, however, proposed to stock blanks in the Kondapalli reserve with teak, but the success is doubtful. When demarcation and settlement works are over, some of the yepe pollards in Bollapalli, especially, and also in Mutukur should be removed departmentally to allow space for the growing seedlings to come up. Only a few pollards are required as seed-bearers, for when they seed they do so most prolifically. The pollards are mostly sound trees from 6 inches to 9 inches diameter and not large unsound trunks. In Kurnool, improvement fellings were undertaken in the Bairuti and North Chelama blocks; 400 acres in the former at a cost of Rs. 707-4-0 and 198 acres in the latter at Rs. 212-9-0. The demand for the produce cut in both was slack owing to its inferiority and the business does not seem to be a profitable one. The whole produce was not sold and the amount realized for the quantity sold was Rs. 457-10-7.

In other districts no operations were undertaken.

The instructions of the Government of India on the subject of improvement fellings are borne in mind and effect is given to them when adequate supervision is possible.

(ii) *Experiments and exotics.*

39. The progress made in this direction was as follows:—

Ganjam.—The growth of the date palms planted 2 years ago in Chatrapur reserve is very slow, only a few plants having put on their normally shaped leaves. The great majority is still only about 6 inches high.

Vizagapatam.—Ten thousand palmyra seeds from Sarvasidhi were sown in the Chinna Mangalapuram tope where an experimental nursery was formed, and the following common timber species were raised: teak, sal, ironwood, *Lebiodieropsis* (a very serviceable species producing strong rafters not attacked by whiteants which is found in large quantity in the Palkonda range and coppices luxuriantly) *Scymida* and *Anogeissus*. A register is also maintained recording the date of sowing and of germination of different species and the casualties.

Godavari.—The Arabian date seedlings planted in previous years in the compounds of Rekapalle and Murmur rest-houses have almost all died out and the few that are surviving are looking very unhealthy; but some of the plants in the Narsapur and Bendamurlanka reserves are in fair condition. The experiment is not on a sufficiently large scale to be of any value.

Kistna.—The mahogany trees of Bozwada reserve flourish. They are now about 12 feet to 15 feet in height and 3 inches diameter at breast height. Some fresh *Swietenia mahogany* were planted— $\frac{1}{2}$ lb. in Weld reserve and $\frac{1}{4}$ lb. in Bozwada reserve. Of the former, 18 plants germinated and flourished. A few were afterwards taken in company with various other seedlings of different sorts, about 50 in number, by the Conservator for trial at some of the East Coast Railway stations. In the Bozwada reserve the new mahogany did not germinate.

The teak in Bozwada reserve is thriving well; some of 1 foot height in December were from 3 feet to 4 feet high at the close of the year and some of 4 feet to 5 feet height were 15 feet at the close of the year.

In Kurnool and Anantapur no progress was made.

Bellary.—Arabian date plants. 25 offsets were received in 1891-92 from Saharanpur and distributed 13 to the Rajah of Sandur and 12 to K. Narayana Rao; of these, 15 are reported to be doing well. Besides 70 plants of the said species were taken out and given to Narayana Rao, of which 20 are reported in good condition, the rest having died.

During the year 6 lb. of mahogany seeds were received and distributed as follows:—

	LB.
Rajah of Sandur	$\frac{1}{2}$
K. Narayana Rao	$\frac{1}{2}$
Mr. R. Sewell	$\frac{1}{2}$
Range officer, Adoni	$\frac{1}{2}$
Do. Bellary	$\frac{1}{2}$
Do. Sandur	3 $\frac{1}{2}$

It was reported that out of 210 seeds sown by Narayana Rao, 200 seeds germinated and were doing well. Those sown by Range officers, Adoni and Bellary, failed, while of those sown in the Ramandrug nursery in April and June 1892, 450 germinated and are reported to be in a flourishing condition. 123 of these are below 6 inches and 327 above 12 inches. 275 are in baskets and are strong and healthy. The seeds given to the Rajah were not sown. Those given to Mr. Sewell were sown in his garden but none of them germinated.

An experimental plantation was made in an area of red soil area in the Kuppagallu reserve at a cost of Rs. 90. There are about 1,000 plants in it of different species, such as Mangrove, Sissus, Ippi, Nallamaddi, Tellamaddi, Kanaga, Margosa, &c., and they are reported to be in a very healthy condition. The plants are now about 3 feet above the ground. A well was sunk near

the plantation for the purpose of irrigation. Close to this another acre of land was ploughed and the following seeds were sown broadcast: Babul, Bandari, Tangedu, Margosa, Casuarina, &c. Some of them have germinated and are doing well. Among experiments may be mentioned that attention is now being specially directed in Bellary to fostering the growth of the ordinary date, *Phoenix sylvestris*.

CENTRAL CIRCLE—(EXTRACT FROM CONSERVATOR'S REPORT).

(e) *Natural reproduction.*

30. No special measures were undertaken during the period under report to facilitate natural reproduction from seed from the standing mother-trees by opening out the canopy or by clearing undergrowth. Nothing can be undertaken systematically until the subordinate staff is strengthened and the works of selection and demarcation are further advanced.

31. Collectors have contributed general remarks as to natural reproduction, and the following is a summary of the results of observations in the different districts. Reproduction from seed is almost wanting in tracts open to unlimited grazing and has been further prevented during the past year by scanty rainfall. It is worthy of notice that in forests consisting chiefly of *Albizia amara*, even where grazing is limited, no reproduction takes place and not a seedling can be found. In the Napier, Chamala and Mamandur reserves, North Arcot, sporadic seedlings of *Pterocarpus santalinus*, *Chlorozylon swietenia* and *Hardwickia binata* are increasing. Seedlings of *Bambusa arundinacea* and *Dendrocalamus strictus* from the seedling of last and previous years are coming up in abundance on the Javadi hills, Vellore and Chandragiri taluks, North Arcot district.

Cuddapah.—The compartment coppiced in the Balapalle working circle has reproduced satisfactorily.

Chingleput.—On the slopes in the Nagalapuram and Kambakkam reserves, where there is practically no grazing, natural reproduction is fair and the grass growth has probably preserved many young seedlings during the past three dry seasons. In the Aradur and Sathiyavedu reserves, where experimental areas were cut over last season, the coppice is coming on well. Last year an experiment was conducted in the Pulrampakkam reserve of penning goats and feeding them with babul. A large number of seedlings sprang up, but 50 per cent. have since died owing to want of rain.

North Arcot.—It is satisfactory to note that the fencing of three areas in the Javadi last year, to encourage sandalwood reproduction, has been fairly successful; there is no doubt the enemy to its successful natural reproduction is grazing; dibbling in these areas is proposed to be undertaken. In Carnatic Ghur reserve the sowing of patches with sandalwood seed has failed, the site chosen is eminently suited as well as the natural conditions and pitting and sowing in prepared patches will be undertaken this year.

Salem.—The reproduction of sandalwood in the Jowlagiri reserve, which fortunately has been subject to only light grazing, was found by the District Forest-officer to be very encouraging, and this reserve has now been closed altogether to grazing. On the Javadi, as in North Arcot, seedlings were only found in clumps of bamboos where they have escaped cattle.

(f) *Artificial reproduction and cultural operations.*

Casuarina plantations.—No additions were made in the Nellore district. In the Chingleput district 7.6 acres were replanted up in the Maiyur plantation with 12,061 seedlings and the casualties, which amounted to 2,150, have been replaced. Some 2,300 young plants were put out in the Wallajahad tope and are reported doing well. In North Arcot district 183.2 acres of Viringipuram, 133.8 acres in Tiruvallam and 40.9 acres in Amundi plantations have been replanted and blanks in previous year's plantations replaced. Both seedlings and young plants suffer from a fungoid growth and the sapplings and older stems from a borer. I have imported a small quantity of seed from the Tenasserim circle, Burma, and the results will be carefully watched. The plantations made this year are not pure casuarina; a mixture of *Albizia lebbek*, *Cassia siamia* and *Ocalspinia coriaria* has been introduced, also over a large portion palmyra seedlings have been planted in sites where casuarina had proved a failure. In South Arcot 10 acres in Tulankoda, 20 acres in Shonankuppam, 10 acres in Doni Durai and 50 acres in Nochikadu were planted with casuarina at a cost of about Rs. 17 per acre with very satisfactory results. Fifty-two acres of the north and south casuarina plantations in the Tanjore district have been planted; over 85 per cent. of the seedlings are thriving. In Trichinopoly 15 acres of the Coleroon padugais and 24 acres of the Cauvery plantations were replanted; in the latter a mixture of *Cassia siamia* has been introduced. An interesting statement appendix has been compiled by the District Forest-officer, Nellore, showing the approximate financial results of the casuarina plantations in the district. The older plantations have entailed an expenditure of Rs. 1,90,688, while revenue already realized and still to be realized will only amount to about Rs. 1,59,400. These were formed under the jungle conservancy, and the cost of planting, &c., was excessive. The plantations formed since 1880 will probably more than cover the outlay, but will yield no large profit, though the price of casuarina has fallen to about one-half of the rate it was a few years ago. The old plantations in the Nellore district present a peculiar appearance; with the exception of round the wells, all the old trees have died.

33. *Other plantations.*—Date plantations at Allipuram, Nellore district. This plantation said to cover an area of 80 acres, has not received the attention it should have. It has been attacked by caterpillars which for a time baffled all attempts to get rid of them. Sulphur reduced to powder eventually proved successful. The small plantation at Sriharikōta has been much damaged by white ants. No additions were made during the period under report.

The following statement shows number of plants and cost :—

Name of plantations.	Description of plants.	Year in which commenced.	Area on 31st March 1892.	Total.	Number of plants alive on 31st March 1892.	Casualties during 1892-93 up to June 1893.	Replaced.	Remainder.	Cost in 1892-93 up to 30th June 1893.	Total cost up to 30th June 1893.
Allipuram Date Plantation ..	Arabian Date ..	1889-90	80	80	10,800	8,220	..	2,580	Rs. A. P.	Rs. A. P.
..	Persian Date ..	1891-92	..	..	1,150	67	..	1,083	374 3 10	1,618 11 1
..	Egyptian Date ..	..	..	..	2,400	1,000	..	1,400	..	..
Sriharikōta Date Plantations ..	Arabian Date ..	1889-90	20	20	480	357	270	393	66 0 0	231 0 0

The red sanders (*Pterocarpus santalinus*) in the plantation at Kodur, Cuddapah, continues to progress; the trees are 27 years old with an average girth of 22.59 inches, but probably have developed no heartwood yet. The teak in this plantation is a failure as might be expected; the site is unsuited.

In Trichinopoly one acre of the Coleroon plantation was planted with *Inga dulcis* and *Cassia siamensis* and over a second acre seeds of the same species were dibbled; the result has not been reported.

The Nursery at Balapalle, Cuddapah, was maintained and 2,809 seedlings of various species were transplanted from it into the Balapalle working circle and the Mojilipenta forest. It is too early to report results.

Pit planting of bamboos from nurseries made last year in Chittoor, Banavaram and Palamedy reserves, North Arcot, have been most successful; about 200 acres in the last-named reserve have been planted at a small cost.

34. *Sowings.*—Experience in this circle has shown that broadcast sowings unaccompanied by preparation of the soil are a failure and waste of money and will be discontinued.

With favorable rains better results might be attained, but the success of such work even then must depend upon the interest and energy shown by subordinates in charge, and these qualities, I fear, are generally wanting. District Forest-officers have no time to personally supervise such work. A little timely weeding or clearing costing little or nothing would be of the greatest value.

Nellore.—The experiment in the Sriharikōta forests of broadcast sowing in prepared patches was again a failure. The past unfavorable seasons have no doubt contributed to this result. Similar work undertaken in the casuarina plantations have been more successful, and last as well as former years' sowings are encouraging. It is proposed by this method to convert the older casuarina plantations into a mixed forest of *Albizia amara*, *Asadirachta indica*, *Albizia lebbek*, *Cassia florida*, &c. *Cassia auriculata*, as a minor product, has also been sown and has succeeded well. The outlay during the year was only Rs. 38 and about 150 acres were treated.

Cuddapah.—One thousand palmyra seeds were sown in Rāmésavaram plantation, but none have yet germinated. Two acres in Ooperapalle plantation sown with various seeds were fairly covered with seedlings, but all have succumbed to the drought. A similar sowing over 25½ acres in the Reddipalle plantation has resulted in about 25 per cent. of the seeds surviving the hot weather.

North Arcot.—The palmyra seeds sown last year in Tiruvallam plantation and Satghur reserve have germinated fairly well, and 38,000 have been sown this year in the former and 24,000 in the latter reserve.

Avaram (*Cassia auriculata*) sowings undertaken last year in Nelvay tope, Nagapatla and Chamala reserves in abandoned fields are a failure, but better success has followed sowings in Musalimadugu, Kappalur, Kelur, Vellakal and Ambūr reserves.

A strip sowing in one of the improvement fellings of the Ambūr reserve where the soil had been slightly worked up of *Acacia sundra*, *Albizia amara* and *Albizia lebbek* has been very successful and this operation will be continued. An area of about 150 acres in the Napier reserve has been sown with *Acacia sundra* and at the time of submitting the District report germination had commenced. In the Carnatic Ghur reserve over about 120 acres, creepers have been cut and one-foot square patches have been prepared for the reception of sandalwood (under shade) and *Albizia lebbek* (in the open).

Sownings of various seeds in the Anamalai reserve and Agaram Plantation, South Arcot resulted in failure. In the Cuddalore range permission has been given to ryots to cultivate blanks upon the condition that at the end of five years they are made over fully stocked with cashew. The results so far are satisfactory.

(a) *Improvement fellings.*

35. *Nellore.*—An experimental area of 2 acres in Sriharikōta has been coppiced instead of pollarded. The stool shoots are coming on well and it will be found more remunerative eventually to treat the whole of this forest similarly, leaving a small percentage of the more valuable trees as standards.

Gudur reserve.—An area has been fenced in and the stunted growth is being cut back, the most promising and valuable species being left as standards. Similar work has been carried out over small areas in the Sathiavedu and Aradur reserves, Chingleput district; the coppice is coming on well.

North Arcot.—These operations have been conducted upon an extensive scale and have extended over an area of 5,584 acres in 24 reserves. They have varied from moderate improvement fellings to cutting back the whole growth, in some instances a few of the more promising and valuable trees being left as standards. The work has been done partially departmentally and the rest by contractors under supervision. The results are good both from a silvicultural and financial points of view, the net profit having been Rs. 19,200. Under direct supervision the proceeds do not equal those from contractors working; this is only natural, while on the other hand the work is better done. Considering the establishment at his command Mr. Marshall deserves great credit.

Tanjore.—Eighteen acres of the Vettangudi reserve were cut over; cost and results not reported.

Salem.—Ten areas in different reserves extending over 3,686 were felled over by contractors for fuel supply; in most cases clean felling had to be resorted to; other areas to meet local requirements have been undertaken departmentally; the coppice shoots are all that can be desired.

Weeding, creeper-cutting, &c.

Cuddapah.—Creeper-cutting was done throughout Kodur and Ooperapalle plantations by the temporary establishment.

Creeper-cutting was carried out in compartments 4, 16, 15, 22, 24 and 26 of Balapalle working circle and over 4 acres of coupe No. 1 of Horsleykonda at an average cost of Rs. 1 per acre. The fences of three topos were thoroughly repaired and 4 topos were newly fenced with stone wall or ditch and also hedge.

North Arcot.—Five hundred acres in the Napier reserve cut over in the beginning of 1892 were cleared of creepers and thorns as were all the casuarina plantations; in these prickly-pear had begun to assert itself.

Trichinopoly.—Removal of prickly-pear and weeding of the casuarina plantations has been attended to.

(n) *Experiments and Exotics.*

Date.

In Nellore.—At the commencement of the year there were 480 plants, 270 were planted during the year. Of these 357 have been killed by white-ants.

In Cuddapah.—The dates from Saharanpur planted in the Balapalle nursery have decreased in numbers from 50 to 21 and are not flourishing. The site and soil are uncongential. Of the 105 Persian Gulf dates planted in Peryavaram palmyra plantation, 10 have died in spite of regular watering.

In Chingleput.—The Busrah and South Malabar plants have made fair progress. The Egyptian dates sown last year in Maiyur plantation are thriving.

In North Arcot.—Fifty-nine Busrah seeds raised from seeds in 1886 are now 4' to 5' high. Eighty-five of the 80 date offsets imported from Busrah in 1886 are thriving and vary in height from 4' to 16'. On the 31st March 852 date seeds obtained locally last year germinated and the seedlings are from 1' to 2' high. The seedlings from 17,148 seeds sown in 1892-93 are thriving. The large date nursery made last year in Tiruvallam plantation is a great success, and the seedlings are healthy and well grown, they will be planted out this year; a quantity of seed was also obtained locally. The seedlings planted in 1891-92 have done decidedly well, they were planted alternately with casuarina.

In South Arcot.—In 7 ranges there existed 156 trees on the 31st March 1892. One hundred and forty now remain varying in height from ½' to 9'. During the year 8 were added.

In Tanjore.—Of the 446 date plants planted in 1881 in the north and south date gardens in the Vettangudi forest, 221 in the former and 225 in the latter survive varying from 2½' to 14' in height. Of the date offsets planted in October 1889, 5 have died during the year and the remaining 109 are thriving. Only 69 out of 223 Persian date seeds received from the Conservator of Forests sown in pots in the Vettaagudi nursery during 1891-92 are alive and flourishing. Thirty-seven plants put out last year in the Ovelakudi reserve have all died. In the Malthottam west block in the southern range there remained, at the beginning of the period under report, 40 date plants with 62 offsets making in all 102. Of these 37 died during the year, the remaining 65 trees vary in height from 3 to 10 feet.

In Trichinopoly.—The Phoenix Dactilifera plants surviving at the close of the last year both on the Pachamalai and in the Cauvery plantation are doing well.

In Salem.—The 18 date palm seedlings planted in the Kuravalli Kumbai reserved forest in Namakal range have died. Twenty-four of the 34 seedlings on the banks of the Chennar river mentioned in last report have died and the remaining 10 are reported sickly.

Mahogany.

In Nellore.—Of the 172 plants remaining at the commencement of the year, 23 died in spite of continued watering. Eighty-two plants of *Swietenia Macrophylla* were planted during the year; these are growing well.

In Chingleput.—Of the 57 seedlings which survived last year, 40 survive and are flourishing. The mahogany seedlings are doing well in the Maiyur plantation, 150 were newly put out, of which 71 have died. The older ones are healthy but have not put in much wood.

In North Arcot.—At the commencement of the year there remained 394 trees varying in height from 4' to 15'. Of these 125 died during the year. The remainder varies in height from 2½' to 15'. In 1892-93, 200 plants were planted in Palamadi nursery. In Palmandr Eucalyptus plantation there existed on the 31st March 1892, 551 varying in height 3' to 7'. Of these 200 have died, the balance is now from 4' to 9' high and 200 were planted out in 1892. The mahogany planted in Tiruvallam is doing fairly well. But is not a great success considering the care taken. In Palamadi reserve, 200 plants are in the nurseries and will be put out before the end of October.

In South Arcot.—It is reported that there existed in 5 ranges 172 on the 31st March 1892. The 8 plants added during the year are sickly, the remainder varies in height from 3' to 30'.

In Tanjore.—There are 35 trees in the Vettangudi forest in the northern range varying in height and girth from 4' to 23' and from 8" to 2½", respectively.

In Trichinopoly.—The *Swietenia mahogany* plants surviving at the close of last year both on the Pachamalai and in Cauvery plantation are doing well.

Peltophorum Ferrugineum.

In Nellore.—There remained 5 plants of *Peltophorum* at the commencement of the year and these are growing well.

In South Arcot.—In Siruvadi and Murungapakam there existed 613 trees—to these 164 were added during 1892-93—these are flourishing.

In Tanjore.—The 24 plants planted in Vettangudi forest in the northern range in 1886 are thriving well, their height and girth vary from 15½' to 31' and 1½' to 3½', respectively.

Red Sanders.

In Nellore.—There were at the commencement of the year 15 plants, 7 were killed by the drought during the year.

In South Arcot.—At relief camp there existed 21 on the 31st March 1893, 7 were added during the year making in all 28, and these are growing well.

Sissu.

In Nellore.—Of the 8 plants that remained at the commencement of the year, 2 have died. Death is ascribed to the heat.

In South Arcot.—At the close of March 1892 there existed in Tiruvadi, Murungapakam and relief camp tope 614 and one in nursery tope, 67 died during the year, the remaining 547 thrive varying in height from 18' to 20½'. Those planted in the relief camp are stunted. The one existing in the nursery tope is 25' high.

Burmah Bamboos.

In Chingleput.—Those in the Tandrai reserved forest and Maiyur plantation are doing well.

In Nellore.—Of the 1,760 bamboo plants remained at the commencement of the year, 560 were killed by insects.

Ceara Rubber.

In South Arcot, No. II Range (Tindivanam and relief camp).—There existed on the 31st March 1892, 43 and 154 were planted during the year—these flourished and have attained a height of 22'.

Eucalyptus.

In the Salem district the 2 *Eucalyptus* trees planted in Hosur range continue to flourish.

Erythroxylon Caca.

In Cuddapah the seedlings at Balapalle and Horesleykonda are still alive, but have made poor progress.

Acrocarpus lasinifolius.

In Cuddapah the favorable opinion expressed in the last report requires modification, 65 per cent. of those planted at Horesleykonda have died as well as some 30 planted out in pits in the Kodur plantation.

Edible Prickly-pear.

In Nellore the 12 plants that remained at the commencement of the year are growing well.

SOUTHERN CIRCLE—(ABSTRACT OF COLLECTORS' REPORTS).

(E) Natural Reproduction.

Natural reproduction under protection is unmistakeably good, but areas that are still open to wood-cutting on seigniorage permits show little progress compared with the better closed areas. The poorer areas, especially, consisting of hill sides and steep slopes in the near neighbourhood of large herds of cattle, are over-grazed and suffer both in loss of soil and failures of seedlings. Little can be done beyond making careful observations until the establishment is strengthened.

The following is a summary of the observations made by the district officers:—

Madura.—The coppice growth in Kadavur and Vemburuli blocks of Alagar hill and in the recently cut-over coupes is satisfactory. The Conservator remarks that throughout the reserves in Madura, especially on the low hills in the plains, improvement is noticeable; but protection against cattle and wood-cutters is not as efficacious as it will, it is hoped, become hereafter.

Tinnevely.—The natural reproduction in the firewood coupes of the ghât forests worked under the "coppice with standard system" is all that could be wished for. In the evergreen forests of the higher hills there is good natural reproduction from kongu (*Hopea wightiana*), the chief timber tree of this district; and improvement fellings are being made by cutting out the inferior growth around it. In the forests of the plains, which chiefly consist of rocky hills, the growth of grass and scrub jungle has wonderfully improved during the last seven years of rigid protection.

North Coimbatore.—No progress.

South Coimbatore.—In the Sholakarai range, the coppice reproduction continues to be satisfactory, and in the coupes felled the seedling reproduction of teak (*Tectona grandis*), rosewood (*Dalbergia latifolia*) and vengai (*Pterocarpus marsupium*) also continues to be fair. In the Anamalai forest the natural reproduction of teak (*Tectona grandis*) cannot be said to be good. In Chinna forest in the Bolampatti valley, the coppice shoots in the coupes felled over have come up fairly well. The Conservator remarks that a good deal of the young growth of *Dalbergia latifolia* is due to root-suckers, although there are seedlings as well.

Nilgiris.—The coppice growth from Australian *Eucalyptus* and wattles has as usual been excellent. The reproduction from sandalwood (*Santalum album*) in the Sigur range is satisfactory, as also from vengai (*Pterocarpus marsupium*), teak (*Tectona grandis*) and rosewood (*Dalbergia latifolia*) in the thinned compartments of the Marigudi block of Mudumalai. Young teak coppice is abundant in Tippacadoo and parts of Mudumalai. The annual growth from stool shoots is very good. The reproduction of anogeissus and mutty (*Terminalia coriacea*) leaves nothing to be desired. The Conservator observes that natural reproduction is decidedly improving under protection, and that the sholas tend to expand where fires have been kept out. But the reverse is the case in the deciduous forests, where the damage done by fires every year is becoming somewhat alarming.

North Malabar.—Progress is satisfactory as regards such trees as mathi (*Terminalia tomentosa*), red cedar, vagai (*Albizia lebbek* and *odoratissima*), &c., but not in the case of teak.

South Malabar.—In the Nellikutta and Karimpoya reserves the seedling growths of *Lagerstræmia microcarpa* and *Dalbergia latifolia*, and coppice growth of *Terminalia* and *Tectona grandis* are very good. The natural production in the Chenai Nair reserve is all from seeds as the forest is worked under the selection system. The seedling growth of *Xylia dolabriformis*, *Lagerstræmia microcarpa*, *Pterocarpus marsupium* and *Dalbergia latifolia* is good. In the Walayar reserve worked under the "coppice with standard system," the growth from stumps and seeds have been found to be excellent.

South Canara.—Natural regeneration is disappointing owing to (1) grazing, (2) fire, (3) high winds, (4) hilly ground, and (5) violent floods of rain.

(F) Artificial production.

Plantations.

Madura.—Along the Alagar hill ghât road, *ficus* cuttings have been planted as an avenue. The Gundan shola plantations, the small Tumburai plantations and the other minor sholas included in the plantations are all looking very well.

Tinnevely.—In Kudiraimoliteru reserve forest (a large sandy waste 13,392 acres in extent) 1,153 seedlings of various species were reared in addition to the ordinary cultural operations. In some of the plain forests *Cassia auriculata* seeds were dibbled into the soil, but they failed on account of drought. Palmyra nuts (*Borassus flabelliformis*) and casuarina and teak seeds were also sown in some reserves during the year.

North Coimbatore.—There is no plantation in this district except the Bylur sandalwood plantation which has since been treated as a sandalwood compartment.

South Coimbatore.—Most of the plants of vengai (*Pterocarpus marsupium*) and rosewood (*Dalbergia latifolia*) transplanted in 1891 in the felled coupes of the Chinnar working circle have died, also a few of the mahogany (*Swietenia macrophylla*). The broadcast sowing of teak, vengai (*Pterocarpus marsupium*) and rosewood (*Dalbergia latifolia*) over another portion of the same circle also failed. The transplantation of mahogany plants into an open corner of the Karian shola plantation likewise proved unsuccessful.

Nilgiris.—The clearing of jungle and creepers in the Mudumalai and Benne teak plantations was completed during the year at a cost of Rs. 215 including cost of upkeep, but pruning is still in progress. The *Eucalyptus* plantations on the plateau have continued to make good growth. No fresh area has been added as Government ordered that they should not be extended.

North Malabar.—The Kanot teak plantations, 41.50 acres in extent, was fire traced as usual. Some little thinning was also done. Over the greater portion of the area the growth of the tree is very slow owing to unsuitable soil. A nursery of teak (*Tectona grandis*), vengai (*Pterocarpus marsupium*) and blackwood (*Dalbergia latifolia*) was formed at Begur and the plants put out in the jungle in pits; 50 per cent. survived and half of this looks very promising.

South Malabar.—152,326 teak and 1,626 *Swietenia macrophylla* seedlings were planted during the year. The weather being unfavorable, there were about 30 per cent. of casualties under teak which were replaced at once. A site of about 100 acres in extent was felled and partly planted with teak and *Swietenia macrophylla*. All the *macrophylla* plants, coppiced lately in Nilambur plantations and Palghat forests, were exempt from the usual borer and showed satisfactory growth.

South Canara.—Besides the maintenance of the two casuarina plantations at Mangalore and the teak plantation at Parappa, broadcast sowings have been made in several reserves and a large quantity of seed has been collected and used for the purpose. Arrangements were also made to dibble 100 acres with cinnamon seeds, but this did not prove completely successful. Seeds of firewood and timber trees were also sown in some reserves. In Coondapoor, 1.7 acres were planted with casuarina.

Trees.

Madura.—The produce of the fruit trees is removed by the minor produce contractors. The topes are periodically inspected; but it is not desirable to have them under the control of the Forest department.

North Coimbatore.—There are not really so many topes or of such extent as entered in the list. Steps have since been taken to correct and revise it.

Cultural operations.

Madura.—The state of the season rendered this impossible.

The Nilgiris.—Seeds of various trees were dibbled and also sown broadcast in the Kup-padi forest, Chedleth range, and in the Kanot forest. The result was favorable at Kanot, but at Kup-padi the majority of the seedlings perished.

South Malabar.—Seeds of *Swietenia macrophylla* and *Steteulia alota* were sown during the year and plants raised from the same.

(c) Works of Improvement.

Madura.—The Alagar Hill ghat road from the 3rd to the 5th mile was widened and opposite to Thirtamandapam about 2½ acres of land have been cleared of all thorny shrubs for planting up with useful and ornamental trees.

Tinnevely.—An improvement felling of pure teak was made in Valaikulam reserve. The area chosen was 5½ acres. The yield was about 3½ tons per acre and there was a net profit of Rs. 7 per acre. Similar improvement fellings are being regularly carried out in other coupes. Data for calculating the annual increment of growing stock and yield are being recorded in registers kept up in each range.

South Coimbatore.—The Mount Stuart compound was fenced with wire during the year at a cost of Rs. 212-11-0.

The Nilgiris.—Improvement thinnings were carried out in several of the reserves and the results are on the whole satisfactory.

North Malabar.—Some pepper vines were planted in Kanot pepper plantations during the period under report at a cost of Rs. 14.

South Malabar.—All the plantations were weeded during the year; some pruning, parasite-clearing and thinning was also done. The *Swietenia macrophylla* plants were fenced.

South Canara.—Sixty acres of Ajarkadu and 20 acres in compartment No. 1 of Sabadi were cleaned; creepers were cleared over 20 acres in compartments Nos. 9 and 10. Poitaje. The boundaries of a few reserves were cleared departmentally, but the proceeds could not be disposed of.

(H) Exotics and Experiments.

Mahogany.—The good growth of the *Swietenia macrophylla* in Madura has induced the District Forest-officer to extend its trial; of the trees planted in Tinnevely in 1887, none has yet reached a greater height than 18 feet. In South Coimbatore, the seedlings raised were put out in the felled area in the Chinnar working circle, but proved a failure as only 68 out of 308 survived and even these are not in a hopeful condition. The *Swietenia mahogani* is flourishing in the Nilgiri district, the largest trees being 10 inches in girth at 3 feet from the ground, but it is not successful in North and South Malabar. The *Swietenia macrophylla* is also successful in the Nilgiris, and every effort has been made to propagate it. In South Malabar, this tree measured 82 feet in height and 82 inches in girth at base in the Chathamborai forest. Trees of the same species planted as standard with teak in Pokote blocks V and VI are also thriving.

Blue gums.—Some of the blue-gums (*Eucalyptus globulus*) planted in 1884 in Tinnevely have reached a height of 60 feet at an elevation of 2,500 feet. Seeds of *Eucalyptus robusta* have been applied for from Australia to be tried on the Nilgiris as this species makes splendid growth on the slopes; a tree five years old growing at an elevation of 5,000 feet was 40 feet high, a foot in diameter and most beautiful and symmetrical all round. The soil in Sim's park, Coonoor, being miserably poor, the several species of this tree planted there have not had a fair trial. In North Malabar three species of this tree have been grown and all are in good condition.

Rubber trees.—The *Cera* rubber trees in the Manantoddy garden in North Malabar grow well and produce self-sown seedlings. The *Hevea castilloa* and *Cera* are thriving in South Malabar. One *Castilloa* was entirely barked by a borer.

Date (*Phoenix dactylifera*).—Fourteen plants are thriving in Mundanthorai and Kadavur in Tinnevely and have reached a height of 2 feet. The five Egyptian date palm seeds sown in 1891-92 in the Bylur sandalwood compartment in North Coimbatore are doing fairly well and are 4 feet high. In South Malabar there have been several casualties among the plants planted in 1890 and 1891. In South Canara they have proved quite a failure, as the climate is too wet.

Bamboos.—Two consignments of Japanese bamboos were tried in the Nilgiris; the first proved a failure, the plants having died owing to long detention at Madras. In the second 52 out of the 64 plants were received in good condition and planted out at an elevation of 4,700 feet, well protected by a stone wall and hedge. Twenty-eight species are now alive in the Nilgiri district. In North Malabar, the giant bamboos (*Dendrocalamus brandisii*) have been growing vigorously, the largest culm being 95 feet in height and the thickest stems measure 1 foot 3 inches in girth. The growth of the golden Burma bamboos (*Bamboosa vulgaris*) in the same district and in South Malabar is satisfactory, the tallest shoots averaging 34 feet with a girth of 11 inches. The *Bamboosa longispatha* planted in Tannirbhavi in South Canara have failed as they are in pure sand. The *Bamboosa longispatha* and *Orphalastachyum pergracile* are growing well in North and South Malabar. The *Besha Travancorea* grows satisfactory at Manantoddy and at Kanot in North Malabar. It is also growing splendidly in the Nilgiris.

Ipecacuanha.—Of the 314 plants of 1887, 87 died during the year. There are also 13 plants of 1884 varying in height from 2 to 3 feet.

Manilla hemp (*Musa textilis*). grows luxuriantly in North Malabar and Nilgiris. In the latter district, the elephants kept by the department destroyed the main stem; but several suckers have come up.

APPENDIX G.

ROADS.

The following is a list of the principal new roads completed during the period under report:—

Ganjām.—Two miles and a half of the Kallada-Tilasingi road and 15 miles of block lines.

Godavari.—The Ziriguppa-Ramadevipeta and Murmur-Tatlanka roads.

Kistna.—The Navalapuri road; the first section of the Kondapalli hill road; the Bolapalli-Bavulapuram road and the Ravulapuram-Remidicherla road.

Kurnool.—The Rollapenta-Pecheruvu road (4 miles); Adutta-Komativanibhavi road (7½ miles) and the Basavapur-Bundlapenta road.

Cuddapah.—The Peddagadi road and bridge over the stream of the same name.

North Arcot.—The Musalimadugu road.

Salem.—The Ancheti-Kundukota road (2½ miles).

Madura.—

- (1) Bombadi Shola road.
- (2) Sambalpoduvanta road.
- (3) Sogu Sukaramkutta bridge path.

Tinnevely.—

- (1) Khansahibpuram road.
- (2) Rajapalayam road.
- (3) Road to Courtallam rest-house.
- (4) Kallimalai road.
- (5) Kottanteri road.
- (6) Papanasam road.

South Coimbatore.—A timber slip in No. 1 Range, and a road from Iyentalaikayaru to Navaladi.

North Malabar.—The Chedleth hill road (two sections) and a new cart-road from Chedleth Odaipallam through the Kuppadi block.

South Malabar.—Six miles of compartment roads.

BUILDINGS.

The following is a list of the principal new buildings completed during the period under report:—

Ganjdm.—A rest-house at Baibali and a Range house at Suradā.

Vizagapatam.—A bungalow at Zambada.

Kistna.—A rest-house at Bollapalli. The former Police station at Gavaravaram was handed over to the department to be used as an inspection shed.

Anantapur.—Outhouses and stables to the Konapanayani bungalow.

Bellary.—A Range house.

Kurnool.—A tana house at Ernapad. A rest-house at Papinenipalli. Several Guards' huts and a Tana hut. The Gudalur rest-house was purchased from the Southern Mahratta Railway.

Cuddapah.—The Balapalli inspection bungalow.

North Arcot.—Four rest-houses and stables to two rest-houses. Wells were dug in the compounds of rest-houses.

South Arcot.—The Tirukkōyilūr Range office (Rs. 1,090).

Madura.—

Gudalur forest station (Rs. 698).

Tandigudi forest station (Rs. 739).

Tuni rest-house (Rs. 817).

Munur rest-house (Rs. 1,063).

Vannathiparai rest-house (Rs. 706).

Outhouses to Cumbum Ranger's house (Rs. 215).

Tinnevely.—Eighteen buildings including outhouses and Forest Guards' huts.

North Coimbatore.—Two Range houses (Rs. 700 each) and a rest-house at Hanur.

South Coimbatore.—Several buildings to serve as quarters to Rangers, Foresters and guards (Rs. 4,543).

Nilgiris.—A Forester's house, a depot clerk's office at Ootacamund, a Ranger's shed at Muthanad and several Guards' huts.

North Malabar.—A double serambi at Muthungal and one at Chedleth.

South Canara.—A forest hut in Coondapoor.

A rest-house at Kavuthamalai in South Arcot is reported to have been destroyed by fire.

APPENDIX H.

Nellore.

1.—STATEMENT showing the results of transport of casuarina wood by tramway compared with transport by country carts in the casuarina plantations in Nellore.

Capital Account, 1885-86.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To cost of plant	6,950 0 0	By depreciation at 6 per cent.	417 0 0
		„ interest at 4 per cent.	278 0 0
		„ balance of stock	6,255 0 0
Total	6,950 0 0	Total	6,950 0 0

Revenue Account, 1885-86.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	361 5 3	By balance written off	1,056 5 3
„ interest at 4 per cent.	278 0 0		
„ depreciation	417 0 0		
Total	1,056 5 3	Total	1,056 5 3

Work done—1,891 tons of casuarina wood carried over 1½ miles = 2,127 ton miles.
Actual charges for carrying—2,127 ton miles at annas 7-11 = Rs. 1,056-5-3.
Estimated cost by country carts—2,127 ton miles at Rs. 1 = Rs. 2,127.

Capital Account, 1886-87.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1885-86	6,255 0 0	By depreciation at 6 per cent.	892 11 10
Add new stock	8,621 0 0	„ interest at 4 per cent.	595 2 7
		„ balance of stock	13,391 1 7
Total	14,876 0 0	Total	14,879 0 0

Revenue Account, 1886-87.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	830 14 9	By balance written off	2,318 13 2
„ interest at 4 per cent.	595 2 7		
„ depreciation	892 11 10		
Total	2,318 13 2	Total	2,318 13 2

Work done—2,036 tons of casuarina wood carried over 2½ miles = 5,599 ton miles.
Actual charges for carrying—5,599 ton miles at annas 6-8 = Rs. 2,318-13-2.
Estimated cost by country carts—5,599 ton miles at annas 14-2 = Rs. 4,957-7-2.

Capital Account, 1887-88.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1886-87	13,391 1 7	By interest at 4 per cent.	535 10 3
		„ balance of stock	12,555 7 4
Total	13,391 1 7	Total	13,391 1 7

Revenue Account, 1887-88.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	545 11 11	By balance written off	535 10 3
„ interest at 4 per cent.	535 10 3		
Total	535 10 3	Total	535 10 3

No wood was cut and transported on tramway as there is no demand for it and as there was a large stock of previous year undisposed.

Capital Account, 1888-89.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1887-88	12,855 7 4	By depreciation at 6 per cent.	771 5 3
		„ interest at 4 per cent.	514 3 6
		„ balance	11,569 14 7
Total	12,855 7 4	Total	12,855 7 4

Revenue Account, 1888-89.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	545 11 11	By balance written off	1,831 4 8
„ interest at 4 per cent.	514 3 6		
„ depreciation	771 5 3		
Total	1,831 4 8	Total	1,831 4 8

Work done—2,065 tons of casuarina wood carried over 2½ miles = 5,679 ton miles.
Actual charge for carrying—5,679 ton miles at annas 6-2 = Rs. 1,831-4-8.
Estimated cost by country carts—5,679 ton miles at annas 14-0 = Rs. 4,969-2-0.

Capital Account, 1889-90.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1888-89	11,569 14 7	By depreciation at 6 per cent.	694 3 1
		„ interest at 4 per cent.	462 12 9
		„ balance	10,412 14 9
Total	11,569 14 7	Total	11,569 14 7

I.—Statement showing the results of transport of casuarina wood by tramway, &c.—*cont.*

Revenue Account, 1889-90.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	117 10 11	By balance written off	1,274 10 9
„ interest at 4 per cent. ..	462 12 9		
„ depreciation	694 3 1		
Total	1,274 10 9	Total	1,274 10 9

Work done—504 tons of casuarina wood carried over 2½ miles = 1,386 ton miles.
 Actual charge for carrying—1,386 ton miles at annas 14-8 = Rs. 1,274-10-9.
 Estimated cost by country carts—1,386 ton miles at annas 14-11 = Rs. 1,292-2-6.

Capital Account, 1890-91.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1889-90	10,412 14 9	By depreciation at 6 per cent. ..	624 12 5
		„ interest at 4 per cent. ..	416 8 3
		„ balance	9,371 10 1
Total	10,412 14 9	Total	10,412 14 9

Revenue Account, 1890-91.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	338 1 5	By balance written off	1,379 6 1
„ interest at 4 per cent. ..	416 8 3		
„ depreciation	624 12 5		
Total	1,379 6 1	Total	1,379 6 1

Work done—2,411 tons of casuarina wood carried over 2½ miles = 6,030 ton miles.
 Actual charge for carrying—6,030 ton miles at annas 8-3 = Rs. 1,379-6-1.
 Estimated cost by country carts—6,030 ton miles at annas 12-3 = Rs. 5,076-1-6.

Capital Account, 1891-92.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1890-91	9,371 10 1	By depreciation at 6 per cent. ..	592 4 8
		„ interest at 4 per cent. ..	374 13 10
		„ balance	8,434 7 7
Total	9,371 10 1	Total	9,371 10 1

Revenue Account, 1891-92.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	239 1 3	By balance written off	1,176 3 9
„ interest at 4 per cent. ..	374 13 10		
„ depreciation	562 4 8		
Total	1,176 8 9	Total	1,176 3 9

Work done—1,613 tons of casuarina wood carried over 2½ miles = 4,436 ton miles.
 Actual charge for carrying—4,436 ton miles at annas 4-2 = Rs. 1,176-3-9.
 Estimated cost by country carts—4,436 ton miles at annas 13-5 = Rs. 8,719-12-4.

Capital Account, 1892-93 up to 30th June 1893.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1891-92	8,434 7 7	By depreciation at 6 per cent. ..	506 1 1
		„ interest at 4 per cent. ..	337 6 0
		„ balance	7,591 0 6
Total	8,434 7 7	Total	8,434 7 7

Revenue Account, 1892-93.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	472 6 2	By balance written off	1,315 13 3
„ interest at 4 per cent. ..	337 6 0		
„ depreciation	606 1 1		
Total	1,315 13 3	Total	1,315 13 3

Work done—1,830 tons carried over 2½ miles = 5,033 ton miles.
 Actual charge for carrying—5,033 ton miles at annas 4-2 = Rs. 1,315-13-0.
 Estimated cost by country carts—5,033 ton miles at annas 13-11 = Rs. 4,384-10-0.

II.—STATEMENT showing the results of transport of wood by tramway compared with transport by country carts in Sriharikota Range.

Capital Account, 1889-90.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To cost of plant delivered at Penubakam ..	17,070 0 0	By depreciation	1,024 3 2
		„ interest	682 12 10
		„ balance	15,363 0 0
Total	17,070 0 0	Total	17,070 0 0

II.—Statement showing the results of transport of wood by tramway, &c.—*cont.*

Revenue Account, 1889-90.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	25 13 11	By balance written off	1,893 7 0
„ road-making charges, &c. ..	160 9 1		
„ interest at 4 per cent. ..	682 12 10		
„ depreciation at 6 per cent. ..	1,024 3 2		
Total	1,893 7 0	Total	1,893 7 0

Work done—137 tons of fuel moved over 2½ miles = 342½ ton miles.
 Actual cost of work—342½ ton miles at Rs. 4-15-1 Rs. = 869-3-9.
 Estimated cost of carting—342½ ton miles at annas 1-10 = Rs. 39-3-11.

Capital Account, 1890-91.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1889-90	15,363 0 0	By depreciation at 6 per cent. ..	921 12 6
		„ interest at 4 per cent. ..	614 8 4
		„ balance	13,826 11 2
Total	15,363 0 0	Total	15,363 0 0

Revenue Account, 1890-91.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	625 1 0	By balance written off	2,262 1 7
„ road-making, repairs, &c. ..	100 11 9		
„ interest at 4 per cent. ..	614 8 4		
„ depreciation	921 12 6		
Total	2,262 1 7	Total	2,262 1 7

Work done—1,820 tons of fuel moved 4½ miles = 8,190 ton miles.
 Actual cost of work—8,190 ton miles at annas 4-5 = Rs. 2,262-1-7.
 Estimated cost of carting—8,190 ton miles at annas 3-5 = Rs. 1,781.

Capital Account, 1891-92.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1890-91	13,826 11 2	By depreciation at 6 per cent. on capital ..	829 9 7
		By interest at 4 per cent. ..	553 1 1
		„ balance	12,444 0 6
Total	13,826 11 2	Total	13,826 11 2

Revenue Account, 1891-92.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	444 6 5	By balance written off	1,827 1 1
„ interest at 4 per cent. ..	553 1 1		
„ depreciation	829 9 7		
Total	1,827 1 1	Total	1,827 1 1

Work done—943 tons of fuel moved over 4½ miles = 4,243½ ton miles.
 Actual cost of work—4,243½ ton miles at annas 3-5 = Rs. 1,827-1-1.
 Estimated cost of carting—4,243½ ton miles at annas 3-8 = Rs. 1,414-6-4.

Capital Account, 1892-93 up to 30th June 1893.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1891-92	12,444 0 6	By depreciation	876 1 11
Add cost of new materials	2,158 0 0	„ interest	684 1 3
		„ balance	13,141 13 4
Total	14,602 0 6	Total	14,602 0 6

Revenue Account, 1892-93 up to 30th June 1893.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To working expenses	1,058 1 9	By balance written off	2,518 4 11
„ interest at 4 per cent. ..	584 1 3		
„ depreciation	876 1 11		
Total	2,518 4 11	Total	2,518 4 11

Work done—2,764 tons of fuel moved 4½ miles = 12,438 ton miles.
 Actual cost of work—12,438 ton miles at annas 3-3 = Rs. 2,518-4-11.
 Estimated cost of carting—12,438 ton miles at annas 3-9 = Rs. 2,915-2-6.

North Arcot.

III.—STATEMENT showing the results of the transport of casuarina fuel by tramway compared with the transport by carts in North Arcot.

Capital Account, 1892-93.			
Dr.	Rs. A. P.	Cr.	Rs. A. P.
To balance from 1891-92	10,482 1 2	By interest at 4 per cent. ..	419 4 6
		„ depreciation at 6 per cent. ..	628 4 6
		„ balance	9,434 8 2
Total	10,482 1 2	Total	10,482 1 2

III.—Statement showing the results of transport of casuarina fuel by tramway, &c.—*cont.*

Revenue Account—1892-93.											
		Dr.	Rs.	A.	P.			Cr.	Rs.	A.	P.
To working expenses			149	11	6	By balance written off	.. ..	.. ..	1,201	12	6
„ road making and repair			4	8	0						
„ interest			419	4	6						
„ depreciation			628	4	6						
Total			1,201	12	6			Total	.. ..	1,201	12 6

Work done—844 tons of fuel moved $2\frac{1}{2}$ miles = 2,110 ton miles.
Actual cost of work—2,110 ton miles at annas 9-11 = Rs. 1,201-12-6.
Estimated cost of carting—2,110 ton miles at annas 4-50 = Rs. 633.

IV.—TRAMWAYS.

South Coimbatore.

The plant consists of the following :—

Seven miles of portable railway suitable for animal power, system A, page 12, Fowler's Catalogue of Light Railways, No. 43, Part IV, with steel rails, steel corrugated sleepers and wrought steel chains riveted on full width of sleeper, 11 lbs. per yard, 2 feet gauge; 5 crossings; 1 portable turn-table, 3 feet diameter; 1 weighing machine, 3½ feet square; 36 waggons, type H. H. of the Catalogue; 1 tool box; 4 eccentric tongs; 8 extras.

2 The following is the capital account and gain or loss account prepared in the form adopted by the Conservator of Forests, Southern Circle, last year :—

Capital Account.

Year.	Opening balance.	Debit 4 per cent. interest on opening balance.	Debit new capital	Debit repairs and renewals.	Total of columns 2 to 5.	Credit 6 per cent. for depreciation on opening balance.	Closing balance.
1	2	3	4	5	6	7	8
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1888-89			56,885		56,885		56,885
1889-90	56,885	2,275	3,200		62,860	3,113	58,947
1890-91	58,947	2,357	2,131	176	63,611	3,536	60,075
1891-92	60,075	2,403	8,987	810	72,275	3,606	68,670
1892-93	68,670	2,747		210	71,627	4,120	67,507
Total		9,782	71,201	1,196		14,674	

Gain or Loss Account.

Year.	Debit depreciation as per column 7.	Debit working expenses.	Total of columns 9 and 10.	Credit interest as per column 3.	Cubic feet of timber removed as if by cuts.	Credit. At 1 pie a cubic foot.	Credit savings in former cut-rod annual repairs.	Total of columns 12, 14 and 15.	Annual gain or loss on cutting compared with cut- logs or mill-logs.
	9	10	11	12	13	14	15	16	17
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1888-89 ..									
1889-90 ..	3,413	1,019	4,432	+2,275	18,353	382	1,200	4,857	575
1890-91 ..	3,536	8,483	7,019	2,357	56,102	1,168	1,200	4,725	- 2,394
1891-92 ..	3,605	1,840	5,205	2,403	30,378	632	1,200	4,235	- 1,210
1892-93 ..	4,120	2,418	6,538	2,737	40,204	837	1,200	4,784	- 1,754
Total ..	14,674	8,760	33,434	9,782	1,45,037	3,019	4,800	17,601	- 5,333

The account shows a loss of Rs. 5,833 for the four years, but as the Conservator observed last year, a much larger sum for depreciation has been debited against the working than has actually been needed for repairs and renewals.

3. Taking this into consideration there is a balance to our credit of Rs. 13,478 in the depreciation account (i.e., difference of columns 5 and 7), it may therefore fairly be considered that the working has actually resulted in a profit of (Rs. 13,847—5,833), i.e., Rs. 7,645.

APPENDIX I.

STATEMENT showing list of completed Forest buildings in the Madras Presidency with their approximate cost, &c., on 30th June 1893.

District.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.
Gujarat.	West Goomsur.	Rest-house	Russellkonda	Rs. A. P. 2,000 0 0	Rest-house with out-houses, the former (containing 4 rooms and 3 bath-rooms) of sun-dried bricks and thatch roof, the latter sun-dried bricks and tiled roof.	Used by District Forest-officer and Range officers when on inspection.	Purchased.
	Do.	Do.	Munjaguda	248 3 8	Burnt bricks and thatch roof, 3 rooms 12 X 12 and 2 bath-rooms, out-houses of mud walls and thatch roof.	Do.	Built.
	Do.	Do.	Gullery	972 5 0	Thatch roof and mud walls, one room and one side room with 2 bath-rooms, out-houses mud walls and thatch roof.	Do.	Do.
	Do.	Do.	Bambha	449 2 4	One room 20 X 20, one 20 X 10 and two bath-rooms. Built of sal planks and thatch roof, out-houses walled with sal planks and thatch roof.	Do.	Do.
	Do.	Do.	Hattiguda	473 6 3	One room 20 X 20, one 20 X 10 and two bath-rooms. Built of sal planks and thatch roof, out-houses, mud walls and thatch roof.	Do.	Do.
	Do.	Do.	Chariguda	257 3 6	Do.	Do.	Do.
	Do.	Do.	Baibali	564 6 0	Do.	Do.	Do.
	East Goomsur.	Do.	Gayagonda	751 15 10	Burnt bricks and thatch roof, 3 rooms 12 X 12 and 2 bath-rooms, out-houses of mud walls and thatch roof.	Do.	Do.
	Do.	Do.	Jagamathprasad	528 10 8	Do.	Do.	Do.
	Do.	Do.	Gundribadi	545 4 11	One room 20 X 20, one 20 X 10 and 2 bath-rooms. Built of sal planks and thatch roof, out-houses walled with sal planks and thatch.	Do.	Do.
	Do.	Do.	Tilisingi	738 13 10	One room 20 X 20, one 20 X 10 and 2 bath-rooms. Built of sal planks and thatch roof, out-houses, mud walls and thatch.	Do.	Do.
	Do.	Do.	Tarsingi	571 5 11	Do.	Do.	Do.
	Do.	Do.	Bonta	568 8 6	On piles. Built of sal planks and thatch roof, 2 rooms 20 X 20 and 2 bath-rooms, out-houses, mud wall and thatch roof.	Do.	Do.
	Do.	Do.	Chandragiri	895 6 4	One room 20 X 20, one 20 X 10 and 2 bath-rooms. Built of sal planks and thatch roof, out-houses, mud walls and thatch roof.	Do.	Do.
	Surada	Do.	Osarabando	563 13 6	Do.	Do.	Do.
	Bugunda	Do.	Kureholy	565 0 5	Do.	Do.	Do.
	Berhanpore.	Do.	Berhanpore	1,200 0 0	Rest-house sun-burnt bricks and thatch roof, 3 rooms and 2 bath-rooms, out-houses, mud walls and thatch.	Used by District Forest-officer and Range officers when on inspection.	Purchased.
	Do.	Office	Do.		Sun-burnt bricks and thatch roof, one room 20 X 20 and one side room.	Range office	Do.
	Do.	Rest-house	Padara	125 0 0	One room 12 X 12, mud walls and thatch roof	Inspection house for Range officer.	Built.
	Do.	Do.	Kukkarahandi.	125 0 0	Do.	Do.	Do.

Statement showing list of completed Forest buildings in the Madras Presidency with their approximate cost, &c.—cont.

District.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.
NORTHERN CIRCLE—cont.							
Kistna—cont.	Sattenapalle range.	Rest-house	Bellamkonda	Rs. A. P. 2,000 0 0	....	By District Forest-officers on tour of inspection.	Rs. 5-14-0 were spent for petty repairs during 1892-93. In good order.
	Do.	Forest guard's house.	Venkatayapalem	36 0 0	....	Forest guard's residence	*Rs. 2-10-0 were spent for petty repairs during 1892-93. In good order. do.
	Do.	Do.	Turikepalli	35 0 0	....	Forester's office and rest-house on tour.	Rs. 5-6-0 were spent for petty repairs during 1892-93. In good order.
	Do.	Do.	Papayapalem	40 0 0	....	By District Forest-officers on tour of inspection.	In repair.
	Do.	Do.	Mannesullam	40 0 0	....	Tanna office	Do.
	Do.	Tanna	Yemmajudem	40 0 0	....	By District Forest-officer on tour of inspection.	Fell down.
	Guntur range.	Rest-house	Kondavid hill	1,000 0 0	....	Forester's rest-house on tour.	Do.
	Do.	Guard's house	Do.	50 0 0	....	By District Forest-officer on tour of inspection.	Do.
	Do.	Tanna	Guntur	6 0 0	....	Tanna office	Do.
	Do.	Two tannas	Kondavid reserve.	Written off stock under Conservator's No. 1700-A of 2nd February, 1893.	....	By District Forest-officer on tour of inspection.	Do.
Anantapur.	Berrada range.	Rest-house	Kondapalli hill.	1,000 0 0	....	Forester's rest-house on tour.	Do.
	Do.	Do.	Vellatur	....	....	Forester's rest-house on tour.	Do.
	Do.	Tanna	Kondapalli	25 0 0	....	Tanna office	Do.
	Do.	Forest guard's house.	Kondur	40 0 0	....	Forest guard's residence	Do.
	Do.	Four store sheds.	Bezavada garden	3 0 0	....	Gardener's shed	Do.
	Do.	Inspection shed.	Kondapalli hill.	26 0 0	....	For shelter to coolies and keeping tools.	Do.
	Palnad range.	Head-quarters bungalow and out-houses.	Davurpalli	18 0 0	Two-storied tiled building with 4 rooms, 2 dressing rooms and bath-rooms, store-rooms, servants' quarters and stable.	Old Police station used for Foresters on tour of inspection.	Spent during 1892-93.
	Dharmavaram.	Bungalow	Golla	1,500 0 0	Two rooms with bath-rooms, arched roof	Residence of District Forest-officer.	Side Government Order, No. 1455 W. Public Works, dated 1st June 1893.
	Gooty	Bungalow	Dharmavaram	479 0 0	One large and 3 small rooms, flat roof	Inspection bungalow.	Do.
	Penunkonda.	Range office	Pathakottachern.	1,500 0 0	One large, 1 small room, 2 bath-rooms, tiled roof; 2 rooms flat-roof.	Range officer's residence and office.	Do.
Bellary.	Do.	Rest-house	Bukkapatnam	492 0 0	Two rooms, flat-roof	Inspection bungalow	Transferred from Local Fund Department—vide G.O. No. 253-L, dated 17th March 1891.
	Do.	Rest-house	Kotuppusamayipalli.	806 0 0	Two rooms and bath-room, tiled roof	Range office	Do.
	Do.	Do.	Penunkonda hill.	506 0 0	Two rooms and 2 small rooms in buttresses of the old fort; large rooms have thatched roof.	Inspection bungalow.	Do.
	Do.	Two Forest guard's sheds.	....	40 0 0	....	Do.	Do.
	Do.	Do.	....	....	....	Do.	Do.
	Do.	Do.	....	....	....	Do.	Do.
	Do.	Do.	....	....	....	Do.	Do.
	Do.	Do.	....	....	....	Do.	Do.
	Do.	Do.	....	....	....	Do.	Do.
	Do.	Do.	....	....	....	Do.	Do.
Bellary.	Kalyandurg.	One Forest guard's shed.	....	72 0 0	....	Used by the Range officer.	Now collapsed.
	Nyakakota.	Do.	....	70 0 0	....	Used for keeping the tools of the Range officer.	Do.
	Muchukota.	Do.	....	80 0 0	....	Rarely used by officers as there is no water near.	Do.
	Bukkapatnam.	One Tanna hut.	....	60 0 0	....	Used as a Forest tanna.	Do.
	Sandur.	Range-house	Sandur	1,326 9 9	Flat semi-roof with out-houses. It contains 5 rooms and a verandah.	Used by the Range officer.	Do.
	Do.	Tool-shed	Do.	40 0 0	Flat semi-roof	Used for keeping the tools of the Range officer.	Do.
	Do.	Rest-house at Donimalai.	On the top of Donimalai.	672 4 0	Thatched building with a big room and 2 bath-rooms and a verandah on three sides.	Rarely used by officers as there is no water near.	Do.
	Bellary	Tanna-shed, Kuditini.	Kuditini	13 0 0	Thatched building	Used as a Forest tanna.	Do.
	Nandyal	Nandyal bungalow.	Nandyal	10,000 0 0	Former Head-quarters' Bungalow. Consists of two stories; the lower terraced and planked and the upper tiled. The lower story consists of two main rooms of 14½' X 14' and two side rooms of 14' X 8½'. The upper one contains 2 main rooms of 15' X 14½' and a side room 8½' X 7'; has also an out-house and a stable attached.	Used by District Forest-officer as an inspection house.	Do.
	Nandyal	Rest-house	Paniem	750 0 0	Teraced. Consists of two main rooms of 18½' X 16' and two side rooms of 16' X 10' divided into compartments. Has also an out-house and a stable.	Used by superior Forest-officers on inspection duty.	Do.
Kurnool.	Do.	Do.	Gazulapalle	500 0 0	Teraced. Consists of one main room of 18½' X 16' and two side rooms of 36' X 10', of which one is divided into three compartments. Has also an out-house and a stable house with thatch roofing.	Do.	Do.
	Do.	Do.	Chelema	600 0 0	Teraced and the middle or raised roof covered with corrugated iron. Has also a mud terraced out-house and a thatched stable house.	Do.	Do.
	Do.	Do.	Baswapur	1,500 0 0	Teraced. Consists of two main rooms 18½' X 16' and two side rooms of 36' X 10' each divided into three compartments. Has also a thatched out-house.	Do.	Do.
	Nandikotkur	Do.	Bairuti	1,175 0 0	Masonry building (stone and mortar) flat pucca roof covered with gabled thatched roof. Consists of one room 30' X 16'. A wooden partition screens off a small space for a bath room. Has also two thatched out-houses with bamboo hurdle walls.	Do.	Do.
	Do.	Do.	Rollapenta	1,200 0 0	Same as the building at Bairuti, except that the flooring is of stone.	Do.	Do.
	Do.	Do.	Adula	350 0 0	Thatched building consisting of one main room 16 square, one bath-room 8½' X 7½' and two verandahs, front and rear, 19' X 9½' and 9½' X 8½' respectively.	Do.	Do.
	Do.	Do.	Mantrala	650 0 0	Thatched building	Do.	Do.
	Do.	Do.	Giddalur	100 0 0	Masonry building consisting of one main room 16' X 14' and a bath-room 8' square with a verandah all round.	Do.	Do.
	Do.	Do.	Painipalle	690 0 0	Range Offices.	Do.	Do.
	Do.	Do.	....	....	....	Do.	Do.
Markapur.	Range office building.	Dornal	250 0 0	Thatched building with mud walls all round	Range officer's office building.	Do.	Do.
	Do.	Atmakur	200 0 0	....	Do.	Do.	Do.

Statement showing list of completed Forest buildings in the Madras Presidency with their approximate cost, &c.—cont.

Dist.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.		
NORTHEN CIRCLE—cont.									
Range Rest-houses.									
Kannur	Nandikotkur	Range Rest-house	Karadulagundam.	70 0 0	Thatched bamboo hurdle shed, consists of one room 42' X 18', three chanda huts attached as out-houses.	Used by Range officer when on inspection.			
		Do.	Rudrakodu	125 0 0	Do.				
		Do.	Buggapenta	125 0 0	Do.				
		Do.	Pecharuvu	125 0 0	Thatched bamboo hurdle shed consisting of one room				
	Nandyal	Do.	Gundabrahmeswar.	30 0 0	Do.				
		Do.	Mallamma	150 0 0	Thatched shed of 36' X 22' enclosed by lathy walls				
		Do.	Chintal	100 0 0	Thatched building 31' X 18'				
		Do.	Chennepalle	100 0 0	Do.				
	Sirvel	Do.	Mantrala	140 0 0	Do. with bamboo lathy walls				
		Do.	Uliada	50 0 0	Do.				
	Marthapur	Forest Guards' hut.	Bommalapur	240 0 0	Thatched building consisting of three rooms, one 34' X 84' and the other two 16½' X 8½' each.			Occupied by the Forest Guard and Tannadar.	
		Tannadar's hut	Baktapur	55 0 0	Thatched building 27' X 18' with bamboo lathy walls			Used by the Tannadar.	
	Kannur	Nandyal	Do.	Baavapur	55 0 0			Do.	
			Do.	Singaveram	55 0 0			Do.	
Do.			Kanyanapuram.	55 0 0	Do.				
Do.			Velode	45 0 0	Do.				
Nandikotkur		Do.	Siddepalle	45 0 0	Do.				
		Do.	Benamukula	33 0 0	Do.				
		Do.	Guvvalakunta	23 0 0	Do.				
		Do.	Bairnui	23 0 0	Do.				
Nandyal		Do.	Ventakapuram	40 0 0	Do.				
		Do.	Ramapuram	18 0 0	Do.				
		Do.	Musalimadugu	15 0 0	Do.				
		Do.	Niddimandi	9 0 0	Do.				
Sirvel		Do.	Yerrakonda	13 0 0	Do.				
		Do.	Torwamitta	13 0 0	Do.				
		Do.	Mallamma	13 0 0	Do.				
		Do.	Bandlacadda	45 0 0	Do.				
Marthapur		Do.	Galeru	33 0 0	Thatched bamboo hurdle shed	Do.			
		Do.	Leoddi	13 0 0	Do.				
		Do.	Cuddapah Frontier.	9 0 0	Do.				
		Do.	Bodi Torres	9 0 0	Do.				
Nellore	Udayagiri	Office building	Sriharikot	Do.	Used by Superior officers on inspection duty.				
		Store shed	Do.	890 0 0					
		Inspection house.	Kodur	3,000 0 0					
		Rest-house	Balapalle	400 0 0					
	Kodur	Inspection house.	Do.	1,125 0 0					
		Rest-house	Magilipenta	800 0 0					
		Inspection house.	Vontimitta	1,400 0 0					
		Rest-house	Lankamalais	945 0 0					
	Madanapalle.	Inspection house.	Horsleykonda	3,300 0 0					
		Do.	Sampaya	1,700 0 0					
		Rest-house	Kortimadugu	900 0 0					
		Inspection house.	Piler	200 0 0					
	Ravachoti	Range house	Kodur	1,200 0 0					
		Do.	Ravampet	350 0 0					
Do.		Sidhout	500 0 0						
Do.		Badvel	800 0 0						
Cuddalore	Office building.	Ravachoti	400 0 0	Extra Assistant Conservator's and Kodur Range office.					
	Depôt house	Kodur	130 0 0						
	Do.	Vontimitta	250 0 0						
	Do.	Kurappalle	180 0 0						
Kodur	Do.	Polisetavandapalle.	16 0 0	Storing minor forest produce and timber.					
	Do.	Do.	16 0 0						
	Do.	Do.	16 0 0						
	Do.	Do.	16 0 0						
Kodur	Tannab house	Kodur	100 0 0	Tannadar's residence and store-room for perishable produce.					
	Do.	Do.	100 0 0						
	Do.	Do.	100 0 0						
	Do.	Do.	100 0 0						

Statement showing list of completed Forest buildings in the Madras Presidency with their approximate cost, &c.—cont.

District.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.
CENTRAL CIRCLE.							
Cuddalore.	Siddhapur.	Forest inspection shed.	In ten places.	Rs. A. P. 254 0 0	Thatched roofs with stone in mud walls; generally 1 room 12 X 12 and bath-room.	Used by Superior and Range officers on inspection duty.	
		Forest guards' huts and tannadars' huts.	In sixty-five places.	814 0 0	Thatched roof with mud walls; generally 1 room 12 X 12 and verandah.	Guards' residence and tannadars' docketing stations.	
		Huts and sheds in topes.	In six places.	83 0 0	Thatched roofs with mud walls; generally 1 room 12 X 12 and verandah.	Used by Superior and Range officers on inspection duty.	
		Depôt peons' huts.	In three places.	45 0 0	Do.	Depôt peon's residence.	Food cannot be had.
Chingleput.	Chingleput.	1. Ohingepet.	Forest Department.		Two rooms divided by an arch and another small room separated by a court-yard from the main building. Out-house is not available for travellers.	A charge of 8 annas a day or a portion of a day of 24 hours is made for all save those which are used as Range offices in which no accommodation can be had. Nos. 1 to 8 are tiled and No. 7 thatched.	
		2. Nellikuppam.			One room 12 X 10; main buildings, not furnished.		
		3. Perakuppam.			One kitchen and 2 godowns.		
		4. Nagalapuram.			Two small rooms. Out-houses consist of a kitchen and stable for one horse, unfurnished; kitchen and stable for one horse, not furnished; 2 small rooms. Out-houses consist of a kitchen and stable for one horse.		
Chittoor.	Chittoor.	Rest-house.	Paradarami.	250 0 0	Thatched roof 26' X 16'.	Used by Forest-officers.	
		Range office.	Nangamangalam.	600 0 0	Do. 27' X 30'.	Do.	
		Rest-house.	Chittoor.	68 0 0	Tiled roof 21' X 31'.	Used for Range office.	
		Inspection hut.	Panpakam.	100 0 0	Thatched roof 31' X 30'.	Used by Forest-officers.	
Chandragiri.	Chandragiri.	Rest-house.	Nagapattinam.	30 0 0	Do. 17' X 12'.	Do.	
		Do.	Nagapattinam.	336 0 0	Do. 17' X 12'.	Do.	
		Do.	Nagapattinam.	330 0 0	Do. 31' X 31'.	Do.	
		Do.	Nagapattinam.	437 0 0	Do. 30' X 35'.	Do.	
Palamaner.	Palamaner.	Big bungalow.	Chandragiri.	1,300 0 0	Tiled roof 28' X 21'.	Used for Range office.	
		Range office.	Chandragiri.	20 0 0	Thatched roof 12' X 12'.	Used by Forest-officers.	
		Inspection hut.	Thirupathi hill.	50 0 0	Thatched roof.	Do.	
		Do.	Thirupathi hill.	265 0 0	Tiled roof 40' X 34'.	Do.	
Palamaner.	Palamaner.	Bungalow.	Naickaneri.	1,000 0 0	Do. 53' X 33'.	Used for Rangars' quarters and office.	Given over by District Board.
		Do.	Palamaner.			Used for Rangars' quarters and office.	
		Rest-house.	Do.	200 0 0	Thatched roof 40' X 20'.	Do.	
		Do.	Do.	205 0 0	Do. 35' X 24'.	Do.	
Palamaner.	Palamaner.	Do.	Nellikuppam.	100 0 0	Do. 24' X 24'.	Do.	
		Do.	Do.	1,315 0 0	Tiled roof.	Do.	
		Do.	Do.				
		Do.	Do.				
Gudiyattam.	Gudiyattam.	Rest-house.	Sinagunda.	150 0 0	Thatched roof 18' X 25'.	Do.	
		Do.	Amund.	30 0 0	Do. 17' X 12'.	Do.	
		Do.	Trivallam block No. 3.	76 0 0	Do. 32' X 33'.	Do.	
		Do.	Virinjipuram, block No. 4.	190 0 0	Do. 34' X 34'.	Do.	
North Arcot.	North Arcot.	Do.	Virinjipuram, block No. 3.	28 0 0	Do. 29' X 25'.	Used for Forest-officers' quarters.	
		Do.	Natikanery.	40 0 0	Do. 24' X 24'.	Used by Forest-officers.	
		Do.	Amund.	180 0 0	Tiled roof 35' X 33'.	Do.	
		Do.	Odugathur.	655 0 0	Do.	Do.	
North Arcot.	North Arcot.	Do.	Kallagur.	819 0 0	Do.	Used by District Forest-officer.	
		Do.	Amund.	650 0 0	Thatched roof 51' X 31'.	Used by District Forest-officer.	
		Do.	Mandapara.	1,356 0 0	Tiled roof 68' X 22'.	Do.	
		Do.	Patrakad.	377 0 0	Thatched roof 59' X 29'.	Used by Range officer.	
North Arcot.	North Arcot.	Do.	Karnaticpur.	542 0 0	Do. 32' X 27'.	Used by District Forest-officer.	
		Do.	Bagmarpet.	704 0 0	Do. 38' X 27'.	Used by Range officer.	
		Do.	Attur.	104 0 0	Do. 42' X 27'.	Used by District Forest-officer.	
		Do.	Atturambadi.	156 0 0	Do. 42' X 27'.	Used by Range officer.	
North Arcot.	North Arcot.	Do.	Santavasi.	50 0 0	Tiled roof.	Used by Forest-officers.	
		Do.	Santavasi.	18 0 0	Thatched roof.	Do.	
		Do.	Mulacud.	268 0 0	Do.	Do.	
		Do.	Karnaticpur.	434 0 0	Thatched roof 58' X 36'.	Do.	
North Arcot.	North Arcot.	Do.	Kirrinneel.	529 0 0	Do. 16' X 16'.	Do.	
		Do.	Banavaram.	610 0 0	Do. 16' X 16'.	Do.	
		Do.	Banavaram.	205 0 0	Tiled roof 70' X 30'.	Do.	
		Do.	Banavaram.	37 0 0	Tiled roof.	Do.	
North Arcot.	North Arcot.	Do.	Nodunqum.	428 0 0	Do.	Used for Range office.	
		Do.	Do.	50 0 0	Do.	Used by Forest-officers.	
		Do.	Trivannamalai.	500 0 0	Tiled building with verandahs on three sides; walls brick in chunam. Its extent is 58' X 35'; has 6 rooms with a kitchen and stable both thatched—	Used as Forest Range office and Sub-division Forest office.	
		Do.	Do.		2 rooms measuring 16' X 14' each.		
South Arcot.	South Arcot.	Do.	Do.		1 room 18' X 7'.		
		Do.	Do.		2 rooms 14' X 7' each.		
		Do.	Do.		Kitchen 25' X 12'.		
		Do.	Do.		Stable 28' X 12'.		
South Arcot.	South Arcot.	Do.	Do.		Tiled building with mud walls 27' X 10' X 22'; has 2 verandahs 27' X 5' each and room 16' X 10' for the outer walls and in mud for the inner walls. Its extent is 28' X 26'.	Used as a Permit Recovering office.	
		Do.	Do.		It has 3 rooms, 2 measuring 12' X 8' and 1 measuring 13' X 6'.	Used by Forest-officers when on inspection duty.	
		Do.	Do.		6: 2 verandahs, 1 measuring 25' X 6' and 1 measuring 13' X 5'.		
		Do.	Do.		Tiled building with brick in chunam walls. Verandahs on 3 sides; has 4 rooms; extent 47' X 31'.		
South Arcot.	South Arcot.	Do.	Do.		2 large rooms measure 14' X 8' each.		
		Do.	Do.		1 large verandah measures 47' X 7'.		
		Do.	Do.		2 small verandahs measure 10' X 7' each.		
		Do.	Do.		1 thatched stable measures 13' X 13'.		
South Arcot.	South Arcot.	Do.	Do.		1 thatched kitchen measures 12' X 12'.		
		Do.	Do.				
		Do.	Do.				
		Do.	Do.				

A detailed list of completed Forest buildings in the South Arcot district with their approximate cost, &c.—cont.

District.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.
South Arcot—cont.	Tiruvannamalai.	Rest-house	Thommalai	Rs. A. P. 1,697 0 0	Tiled building with brick in chunam walls. Extent 52' 5" X 34' 4". Has verandah on three sides and 5 rooms, one stable and a kitchen with mud wall. 2 rooms measure 17' 11" X 17' 4" each. 3 do. 18' 6" X 8' 4" each. 1 verandah measures 52' 5" X 8' 4". 2 verandahs measure 25' X 8' 4". 1 kitchen measures 50' X 10'. 1 stable do. 18' X 5'. Tiled building with brick walls and with verandahs on two sides.	Used by Forest-officers when on inspection duty.	Available for use of officers of other departments.
	Tindivanam.	Inspection shed.	Shanikulam	511 0 0	Extent { 27 1/2' X 17 1/2' } has 3 rooms. One kitchen that had 17 1/2' X 27'. Tiled building with brick walls and with verandahs on four sides and 4 rooms. Its extent is 47 1/2' X 27 1/2'. 1 Front verandah 47 1/2' X 6'. 1 rear do. 24' X 6'. 2 side verandahs 21' X 6' each. 1 thatched kitchen 33' X 14'. Tiled building with mud walls and with one room; extent 30' X 11'.	Do.	Do.
	Do.	Rest-house	Do.	300 0 0	One kitchen that had 17 1/2' X 27'. Tiled building with brick walls and with verandahs on four sides and 4 rooms. Its extent is 47 1/2' X 27 1/2'. 1 Front verandah 47 1/2' X 6'. 1 rear do. 24' X 6'. 2 side verandahs 21' X 6' each. 1 thatched kitchen 33' X 14'. Tiled building with mud walls and with one room; extent 30' X 11'.	Permanently occupied as Forest Range office.	Not available for use of officers of other departments.
	Do.	Depôt	Tindivanam	50 0 0	Tiled building with mud walls and with one room; extent 30' X 11'.	Used as depôt whenever necessary.	Not fit to be used as a rest-house.
	Do.	Police bungalow.	Do.	Not known.	Tiled building with brick walls, has 3 large rooms and bathrooms with 3 verandahs and a pukka tiled kitchen. Extent 72' X 30 1/2'. Front verandah measures 73' X 6'. Rear do. 53' X 6'. Kitchen do. 28 1/2' X 16 1/2'. Tiled building with brick in chunam walls and verandahs on three sides; has 3 rooms; extent about 1,200 square feet.	Not used by the Forest Department. At present lent to Salt Department for temporary occupation.	In need of great repairs. Not fit for permanent occupation. Handed over to forests by the Public Works Department.
	Villupuram.	Old Court-house.	Villupuram	Do.	Tiled building with brick in chunam walls and verandahs on three sides; has 3 rooms; extent about 1,200 square feet.	Presently used as Forest Range office.	Not available for use of officers of other departments. The building is under repair.
	Tirukkóyilur.	Range office	Tirukkóyilur	1,327 0 0	Tiled building with walls brick in chunam. Its extent is 32' X 32'; has 2 main and 2 rear rooms; one verandah in front 32' X 6'. Tiled building with brick in chunam walls with 3 verandahs and 2 rooms; extent is 1,200 square feet. Front verandah measures 43' 8" X 7' 6". 2 side verandahs 33' X 7' 6" each. Tiled building with brick in mud walls with 2 rooms. Its extent is 32' X 13'.	Permanently occupied as Range office.	Not available for use by officers of other departments.
	Kallakurichi.	Do.	Kallakurichi	Do.	Tiled building with walls brick in chunam. Its extent is 32' X 32'; has 2 main and 2 rear rooms; one verandah in front 32' X 6'. Tiled building with brick in chunam walls with 3 verandahs and 2 rooms; extent is 1,200 square feet. Front verandah measures 43' 8" X 7' 6". 2 side verandahs 33' X 7' 6" each.	Do.	Do.
	Do.	Rest-house	Kalpadi	450 0 0	Tiled building with brick in mud walls with 2 rooms. Its extent is 32' X 13'.	To be used as a rest-house by Forest officers when on inspection duty.	Available for officers of other departments.
	Northern range.	Residence and Range office.	Tirumalaipattinam	292 0 0	Thatched building containing 6 rooms	At the Ranger's quarters and his office.	

Tiruchinopoly.	Kallitai.	Rest-house	Elamanur	1,000 0 0	Thatched building, 2 rooms and out-houses	Used by Inspecting officers	Value not known. Local Fund transferred from Department.
	Do.	Do.	Pudupalayam	150 0 0	Tiled building, 3 rooms and out-houses	Do.	
	Do.	Do.	Kalpatti	80 0 0	Thatched building, 2 rooms and out-houses	Do.	
	Do.	Do.	Kalpet	80 0 0	Do.	Do.	
	Do.	Do.	Kattalai	477 0 0	Do.	Do.	
	Do.	Do.	Singathipatti	15 0 0	Do.	Do.	
	Do.	Do.	Pouparappi	15 0 0	Do.	Do.	
	Do.	Do.	Thavadanallur	15 0 0	Do.	Do.	
	Do.	Do.	Kundaveli	15 0 0	Do.	Do.	
	Do.	Do.	Lower ancient	15 0 0	Do.	Do.	
Salem.	Do.	Do.	Madanathur	15 0 0	Do.	Do.	
	Do.	Do.	Tirumalur	15 0 0	Do.	Do.	
	Do.	Do.	Kilgaur	15 0 0	Do.	Do.	
	Do.	Do.	Jayankonda-cholapuram.	230 0 0	Do.	Do.	
	Do.	Do.	Salem	2,982 2 0	Tiled building, 2 rooms and out-houses	Do.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Salem East and West Range officers.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Dwelling-house rented.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Dwelling-house.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Tanna station.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Forest rest-house.	
Salem.	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Forest Range office.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Not used.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Forest Range office.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Godown, kitchen and stable.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Watchers' hut.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Do.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Used for camp.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Do.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Do.	
	Do.	Do.	East Range	45 3 6	Tiled roof with brick walls 55' X 38' 3" and 12' X 18' 36' X 20' 6".	Do.	

A detailed list of completed Forest buildings in the Madras Presidency with their approximate cost, &c. — cont.

District.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.
CENTRAL CIRCLE—cont.							
Salem— cont.	Uttankari range.	Atkinson shed.	Harur ..	Not known.	Tiled 29' X 10' ..	..	Not used
	Do.	Thirthamalai tope shed.	Thirthamalai ..	Do.	Do. 35' X 22' ..	..	Do.
	Do.	Chittari rest-house.	On the Chittari Hills.	150 8 0	Thatched 27' X 21' ..	..	Rest-house.
	Tirupattūr range.	Tirupattūr Forest Range office.	Tirupattūr ..	1,352 0 0	Tiled 40' X 38' ..	..	Forest Range office.
	Do.	Alongayam tannah.	Alongayam ..	25 6 0	Thatched 12' X 10' ..	..	Tannah station.
	Do.	Andiappanur tannah.	Andiappanur ..	25 0 0	Do. 12' X 10' ..	..	Do.
	Do.	Andiappanur rest-house.	Do.	500 0 0	..	..	Rest-house.
	Do.	Pulimoor tannah.	Pulimoor ..	25 0 0	Thatched 12' X 10' ..	..	Tannah station.
	Do.	Alongayam rest-house.	Alongayam ..	503 10 4	Tiled 27' X 21' ..	..	Rest-house.
	Do.	Singarapet rest-house.	Singarapet ..	703 9 0	Do. 27' X 21' ..	..	Do.
	Do.	Maharajagudai rest-house.	Maharajagudai ..	401 4 1	Tiled 27' X 21' ..	..	Rest-house.
	Do.	Krishnagiri Range office building.	Krishnagiri ..	1,531 9 1	..	..	Forest Range office.
	Dharmapuri Range.	Dharmapuri Forest Range office.	Dharmapuri ..	Not known.	Tiled 74' X 22½' ..	..	Do.
	Do.	Pennaguram depot.	Pennaguram ..	180 0 0	Do. 53' X 18½' ..	..	Used as depot.
	Do.	Muthugampathi Forest bungalow.	Muthugampathi ..	Not known.	Do. 52' X 15½' ..	..	Rest-house.
Hosur range.	Denkanikōla Forest Range office.	Denkanikōla Forest Range office.	Denkanikōla ..	1,205 15 4	Do. 141' X 140' ..	..	Forest Range office.
	Do.	Guard's hut at Anchetti.	Anchetti ..	38 0 0	Thatched 31' X 14' ..	..	Guard's residence.
	Do.	Anchetti rest-house.	Do.	150 0 0	Do. 27' X 21' ..	..	Rest-house.
	Do.	..	..	..	..	..	..

SOUTHERN CIRCLE							
No. 1 Range, Cumbum.	Range officer's quarters and office.	Cumbum	1,256 0 0	The building is 48' long and 30' broad, the floor being 2' from ground level. The accommodation consists of one main room 15½' X 12', two side rooms 12' X 12' each with a bath-room of 12' X 6'. One of the side rooms is for office and behind it is another room 12' X 6' to be used for the custody of records, &c. There is also an out-house with kitchen 10' X 10' and stable. The foundation, basement and superstructure are all built of brick-in-mud and the roofing is with tiles, first-class wood being used for bracing and wall plates. There is a verandah in front 45' X 6'. Batten doors and windows are fixed. The walls are plastered and whitewashed.	Range officer's residence and office.	..	..
Do.	Forester's quarters.	Gidādr	604 12 0	The building consists of 2 rooms 10' X 10' each, one bath-room 10' X 6', one office-room 10' X 10' and one storeroom. 10' X 6'. There is a verandah in front 6' wide and a small verandah at the back. The walls are built of brick and mud and plastered and white-washed. The roofing is made of second-class wood and bamboo reapers and covered with tiles. Wooden doors and windows are used. This is fenced in all round.	Residence and office of the Forester.	..	..
Do.	Rest-house	Vannathiparai ..	70 0 0	This consists of mud wall and thatched roof and is 18' square with 5' verandah all round.	By the Range officer and the District Forest-officer when on inspection.	..	..
Do.	Do.	Cumbum	70 0 0	Do.	By the Range officer only when on inspection.	..	..
Do.	Do.	Uthamapoliem ..	127 12 0	This consists of mud wall and thatched roof and is 18' square with 5' verandah all round. There is also a kitchen.	..	..	..
Do.	Do.	Combai	..	This is a peeka building with a terraced roof built of brick in mortar. It contains 2 rooms. It was formerly a Police station, on the abolition of which it was handed over to this department. Hence the cost of construction could not be known and has not been filled in.	Used by the Range officer and the District Forest-officer when on inspection.	..	..
Do.	New rest-house.	Cumbum	1,200 0 0	The building consists of a central room (one main room) 18' X 12' and a side room 12' X 4' and 2 bath-rooms 6' X 5½' with a verandah in front 6' wide and at side end passage in the rear between the baths. The walls are built of brick and mud and tiled with Calicut tiles.	..	..	..
Do.	Out-houses to new rest-house.	Do.	215 0 0	The building is 45' X 10½'. It consists of one kitchen 13' X 7½' and one stable 9' X 7'. The walls are built of unburnt brick-in-mud and the wood used is jungle wood.	..	..	..
Do.	Watchers' quarters.	Do.	505 0 0	The building consists of 2 main rooms 12' X 10' each and a verandah in front 56' wide. It is built of new brick in-mud and the roofing being with common tiles.	..	..	..
Do.	Guards' and watchers' quarters.	Gōdālūr	616 0 0	The building is 36½' X 34'. It consists of 3 rooms 12' X 8' and the other two 12' X 10' each and a verandah in front 5½' wide.	..	..	..
Do.	Rest-house	Thoni ..	775 0 0	The building is 28½' X 21'. It consists of one main room 12' X 12'. One bath-room 12' X 6' with a verandah 6' wide. The walls are built of new bricks-in-mud and with tiled roof.	..	..	..
Do.	New rest-house.	Vannathiparai ..	700 0 0	Do.	..	..	..

A detailed list of completed Forest buildings in the Madras Presidency with their approximate cost, &c.—cont.

District.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.
SOUTHERN CIRCLES—cont.							
No. II range, Kodakhal.	Range officer's quarters.	Kodakhal.	..	Rs. A. P. 3,260 9 1	The building consists of 4 rooms measuring 12' X 12', 12' X 4', 12' X 19' and 12' X 19', respectively. 2 bath-rooms 12' X 6' and 19' X 6' and one store-room 12' X 6' with verandah on two sides 6' wide. There are also kitchen, stables and godown, the first 12' X 6' and the latter two 6' X 6' each. One room 14' X 19' is for office and another 10' X 6' is for the custody of records, &c. The walls are built of stone-in-mud and plastered and whitewashed. Roof consists of first-class vengai wood and is covered with Calicut tiles with the exception of kitchen, &c., the roofing of which is with corrugated iron sheets. Doors and windows are half glass and half panelled.	Range officer's residence.	
Do.	Range office.	Do.	..	..	This consists of 2 rooms measuring 11' X 8' and 8' X 8', respectively, with a verandah 11' X 11'. The walls are built of stone-in-mud and roofing is made of Calicut tiles.	The cost of this is also included in that of the Range officer's quarters.	
Do.	Range clerk's quarters.	Do.	..	356 9 0	This consists of 4 rooms, 3 of 10' X 10' each and 1, 8' X 12'. Walls are built of stone-in-mud and plastered and white washed. There is a 6' verandah in front. There is a passage dividing the rooms on each side and 2 rooms are set apart for office and store. The roofing is of second-class wood and Calicut tiles. Doors and windows are all of wood.	Range clerk's residence.	
No. II range.	Depot-keeper's quarters and store-rooms.	Gundan Shola.	..	892 14 0	Walls are built of stone-in-mud and plastered and white washed. There is a 6' verandah in front. There is a passage dividing the rooms on each side and 2 rooms are set apart for office and store. The roofing is of second-class wood and Calicut tiles. Doors and windows are all of wood.	Depot-keeper's residence and depot store-room.	
Do.	Gardener's and driver's quarters and cattle-shed.	Do.	..	884 7 5	Gardener's and driver's quarters consist of 8 rooms 8' X 8' each, built with stone-in-mud and with thatched roof. Cattle-shed consists of 3 rooms, 2 of 16' X 12' each and 1, 18' X 12', built of stone-in-mud with thatched roof and no doors.	....	
Do.	Bungalow.	Periyakulam.	..	1,084 0 0	This consists of one room 20' X 14' and 9 store-rooms 12' X 12' each with a verandah 7' wide on 3 sides. The walls are built with brick-in-churnum and the roofing is of first-class vengai wood and partly terraced and partly tiled. Doors and windows are all of wood, the latter having iron bars. Walls are plastered and whitewashed.	Used by the District Forest-officer and Range officers when on inspection.	
No. II range, Kodakhal.	Forester's quarters.	Balsamundram.	..	500 0 0	Similar to Forester's quarters at Gudalur.	....	
Do.	Ranger's house.	Rockal.	..	70 0 0	This consists of only one room 14' X 14' with a 6' verandah all round. The walls are of wattle and date and the roof is thatched.	Used by Range officers when on inspection.	
Do.	Do.	Poombarai.	..	80 0 0			
No. III range, Tandigudi.	Do.	Mulayur.	..	70 0 0	This also consists of only one room, but it is 16' square with a 5' verandah all round. The walls are of mud and whitewashed and the roofing is thatched.	Used by Range officers and by the District Forest-officer, and occasionally by officers of other departments.	
Forest subordinates.							
No. II range.	Pambar Forest station.	Pambar.	..	721 0 0	It consists of 5 rooms, 4 measuring 10' X 12' each and one 12' X 8' with a 5' verandah in front with an enclosed backyard, roofing being Calicut tiles. The walls are built of new bricks.	For the use of the District Forest-officer and officers of other departments.	
Do.	Rest-house.	Marian shola.	..	720 0 0	It consists of one room 12' X 12', one bath-room 12' X 6', and verandah on 3 sides with 6' wide. The walls are built of rough stone-in-mud and with corrugated iron sheets.	....	
Do.	Do.	Kavalapatti.	..	116 1 11	This consists of a room 18' square with mud walls with a 5' verandah all round and has only a thatched roof.	....	
No. III range, Tandigudi.	Do.	Tandigudi.	..	1,615 0 0	Consists of 2 rooms 12' X 12' and one room 12' X 15', 2 bath-rooms 12' X 9' each with 6' verandah on 2 sides. There are also a kitchen and a store-room with 2 stables. All are built of mud and stone with first-class vengai timber and Calicut tiles and with doors and windows, half glass and half panelled.	For the use of the District Forest-officer and officers of other departments.	
Do.	Forester's quarters.	Do.	..	800 0 0	The building consists of 3 large rooms, one measuring 12' X 19' and 2 others 10' X 10', one bath-room 10' X 6' and a store-room 6' X 10' with a verandah in front 6' wide. There are also a kitchen 8' X 10' and one horse stable 8' X 10'. The building is built of stone-in-mud with corrugated iron roofing.	Used by the Range officers as residence.	
Do.	Forest station.	Do.	..	880 0 0	It consists of 4 rooms 12' X 10' and one room 12' X 8' with a verandah 5' X 5' with a corrugated iron roof.	....	
Do.	Rest-house.	Davadanajatti.	..	70 0 0	This consists of a room 15' square and is in other respects similar to that at Kavalapatti.	Used by the Range officers on circuit.	
Do.	Do.	Poriyur.	..	70 0 0	This consists of one room, but it is 16' square with a 6' verandah all round. The walls are of mud and whitewashed and the roofing is thatched.	Do.	
Do.	Do.	Virupatchi.	..	40 0 0	This consists of one room 20' X 12' with mud walls and a 6' verandah in front and one kitchen 12' X 6'. The roof is thatched.	....	
No. IV range, Palamedu.	Ranger's quarters and office.	Palamedu.	..	1,124 13 6	Similar in description to the Range officer's quarters and office at Cumbum, except that junglewood is used for bressummers.	Range officer's quarters and office.	
Do.	Rest-house.	Sirumalai.	..	224 0 0	It is 36' X 28' and consists of one main room 12' X 12' and a bath-room 12' X 6' and 6' verandah on 3 sides. There is also a kitchen 10' square. The building is of rough stone-in-mud with thatched roof.	....	
Do.	Do.	Munur.	..	1,528 0 0	The building consists of a wall 18' X 12', a side-room 12' X 4' and 2 bath-rooms 6' X 11' with a verandah in front and at side end a passage in the rear between the bath and the main room.	....	
Do.	Do.	Patnam.	..	800 0 0	The building consists of one centre room 12' X 12' and the bath-room 12' X 6' with a verandah in front and side. The walls are built of rough stone-in-mud with tiled roofing.	Used by the Range officers and the District Forest-officer on circuit.	
Do.	Forest station.	Munur.	..	790 0 0	The building consists of one room 12' X 10' and another 12' X 8', both connected within by a doorway and 3 more rooms each 12' X 10' with a front verandah. The walls are built of mud. The roof is covered with tiles.	....	
Do.	Ranger's quarters and office.	Kanavalpatty.	..	1,129 16 8	Similar to the Range officer's quarters and office at Cumbum except that junglewood is used for bressummers, &c. It has also a kitchen.	....	
Do.	Forest station.	Do.	..	800 0 0	This building consists of 5 rooms, 3 rooms 12' X 10' each and one 12' X 2' and the other 12' X 10'. It is built of mud walls with common tiles with a 6' verandah.	....	

A detailed list of completed Forest buildings in the Madras Presidency with their approximate cost, &c.—cont.

District.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.
SOUTHERN CIRCLE—cont.							
Southern range.	Do.	Rest-house	Kalivelpil	1,440 0 0	Building with plank roof consisting of 1 hall, 2 rooms and 2 verandahs on 3 sides; length 33' 6", breadth 30' 6".	Rest-house	4,000 feet above sea-level.
Do.	Do.	Out-house	Do.	305 1 3	.....	Out-house.	
Do.	Do.	Rest-house	Kannikam	1,860 0 0	Tiled building consisting of 2 rooms and 1 bath-room, 1 hall and 2 verandahs; length 41' 2", breadth 31' 2".	Rest-house	2,550 feet.
Do.	Do.	Coolie-shed	Do.	50 0 0	Thatched shed consisting of 2 compartments; length 23' 3", breadth 12'.	For coolies employed on works.	
Do.	Do.	Forester's bungalow.	Do.	520 0 0	Building with plank roof consisting of 4 rooms and a front verandah; length 36' 6", breadth 23' 9".	For Ranger, foresters, guards and watchers.	
Do.	Do.	Out-house and kitchen.	Do.	240 0 0	Thatched building consisting of 2 rooms and 2 stables; length 28' 6", breadth 13' 6".	Kitchen and stable.	
Do.	Do.	Rest-house.	Qollar	75 0 0	Building with thatched roof consisting of 2 rooms and a verandah all round; length 37', breadth 27'.	Forester's rest-house	1,000 feet.
Do.	Do.	Do.	Kurjar (upper)	90 0 0	Thatched building consisting of 2 rooms and 1 bath-room and 2 verandahs; length 31', breadth 27'.	Rest-house.	700 feet.
Do.	Do.	Do.	Do. (lower)	75 0 0	Building with thatched roof consisting of 2 rooms and a verandah all round; length 34', breadth 24'.	For Forest guard and watchers.	
Do.	Do.	Do.	Tharivattampatti	36 0 0	Thatched building consisting of 2 rooms; length 35', breadth 28'.	Forest guard's rest-house.	
Do.	Do.	Forest officer's bungalow.	Mundanthori	200 0 0	Tiled building, upper storied; length 41' 6", breadth 33' 6".	Rest-house.	
Do.	Do.	Forester's rest-house.	Do.	Made from savings	Building consisting of 1 room and verandah all round. Circumference 103' 6", longest diameter 38', shortest diameter 21'.	Forester's rest-house.	
Do.	Do.	Hut	Do.	Do.	Thatched building consisting of 1 room, 1 kitchen and a verandah in front; length 21', breadth 19'.	Forest guard's rest-house.	
Do.	Do.	Do.	Do.	Do.	Thatched building consisting of 1 room, 1 verandah, kitchen, and 1 verandah in front; length 24', breadth 19'.	Permit gunastab's house.	
Do.	Do.	Bazaar	Do.	Do.	Thatched building consisting of 2 rooms and a verandah in front; length 32', breadth 30'.	Bazaar.	
Do.	Do.	Hut	Do.	Do.	Thatched building consisting of 1 room and 1 verandah in front; length 18', breadth 15'.	Dhonyan's hut.	
Do.	Do.	Stable	Do.	Do.	Thatched building consisting of 2 compartments; length 26', breadth 13'.	Stable.	
Do.	Do.	Kitchen	Do.	Do.	Thatched building consisting of 3 rooms; length 37', breadth 15'.	Kitchen.	
Do.	Do.	Closet	Do.	Do.	Without roof; length 16', breadth 6'.	Closet.	
Do.	Do.	Depôt	Vikramasingapuram.	Made from savings 36 0 0	Thatched building consisting of 2 rooms and 1 front verandah; length 21' 8", breadth 15' 8".	Timber depôt.	
Do.	Do.	Sub-Assistant Conservator's bungalow.	Ambasamudram	Not known	Tiled building consisting of 8 rooms and 1 hall; length 38', breadth 31'.	Rest-house	Transferred from Police department.

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Do.	Do.	Sub-Assistant Conservator's office.	Do.	284 0 0	Tiled building consisting of 1 room; length 24', breadth 18'.	Office.	
Do.	Do.	Rest-house	Sengalotti	275 0 0	Thatched building consisting of 1 hall, 1 bath-room and verandah on 4 sides; length 27', breadth 27'.	Rest-house.	
Do.	Do.	Forester's office.	Kalacud	315 0 0	Tiled building consisting of 2 halls, 1 record-room, 1 bath-room, 1 front verandah and a small back verandah; length 34', breadth 24'.	Ranger's office.	
Do.	Do.	Mothaluruppan	Mothaluruppan	Under	Thatched building consisting of 2 rooms and 1 bath-room; length 25' 6", breadth 21' 3".	Rest-house.	
Northern range.	Do.	Rest-house	Vinnadikudai	200 0 0	Thatched building consisting of 1 hall, 1 bath-room and verandahs on all 4 sides; length 20', breadth 20'.	Do.	
Do.	Do.	Out-house	Do.	56 0 0	Thatched building consisting of 2 rooms; length of each 12', breadth of each 8'.	Kitchen.	
Central range.	Do.	Rest-house and office.	Vasudevannal	500 0 0	Tiled building consisting of 1 hall, 1 verandah room, 2 corner rooms and verandahs on 3 sides; length 31', breadth 23'.	Rest-house.	
Do.	Do.	Depôt	Do.	89 12 6	Thatched building consisting of 2 rooms, 1 bath-room and verandahs on 2 sides; length 23', breadth 18'.	Depôt.	
Do.	Do.	Out-house	Do.	375 0 0	Thatched building consisting of 1 room, 1 bath-room and verandahs on 2 sides; length 27', breadth 27'.	Office.	
Do.	Do.	Rest-house	Kotanthori	Under	Thatched building consisting of 1 room, 1 bath-room and verandahs on 2 sides; length 23', breadth 22'.	Rest-house.	
Do.	Do.	Do.	Thalayana	200 0 0	Thatched building consisting of 1 room, 1 bath-room and verandahs on 2 sides; length 33', breadth 21'.	Do.	
Do.	Do.	Do.	Kannimarkudi hills.	200 0 0	Thatched building consisting of 1 room, 1 bath-room and verandahs on 2 sides; length 29', breadth 20'.	Do.	
Do.	Do.	Do.	Parliyar Kadayanallur hills.	737 11 0	Tiled building consisting of 3 rooms and 2 bath-rooms; length 38', breadth 28'.	Do.	
Do.	Do.	Do.	Courtallam	51 0 0	Tiled building consisting of 3 rooms; length 40', breadth 11'.	Kitchen.	
Do.	Do.	Kitchen	Do.	49 8 8	Tiled building consisting of 6 rooms; length 36', breadth 20'.	Stable.	
Do.	Do.	Stable	Do.	848 0 0	Tiled building consisting of 6 rooms; length 36' 3", breadth 25' 6".	Office and godown.	
Do.	Do.	Out-house	Do.	753 0 0	.....	Out-house.	
Do.	Do.	Rest-house and godown of the Ranger's office.	Kadayanallur	348 0 0	Tiled building consisting of 6 rooms; length 36' 3", breadth 25' 6".	Partly as office and partly as residence of the Forester.	
Do.	Do.	Tannah hut	Peranur	200 0 0	Tiled building of a single room and verandah; length 12', breadth 12'.	Tannah to check the removals from Travancore.	
Do.	Do.	Do.	Thatchankudi-Peranur.	200 0 1	Tiled building of a single room and verandah; length 12', breadth 12'.	Do.	
Do.	Do.	Ranger's office	Kadayanallur	750 0 0	Tiled building consisting of 5 rooms and verandahs on 2 sides; length 42', breadth 30'.	Ranger's office and rest-house.	
Southern range.	Do.	Out-house	Ollar	169 10 6	Thatched building consisting of 4 rooms; length 41', breadth 17'.	Kitchen and stable.	
Do.	Do.	Bungalow	Sivasylum	850 14 6	Tiled building consisting of 3 rooms and verandahs on 3 sides; length 48', breadth 34'.	Rest-house.	
Do.	Do.	Do.	Mundanthori	2,224 3 1	Tiled building, storied, consisting of 3 rooms and verandah on 3 sides; length 41', breadth 33' 9".	Do.	
Do.	Do.	Out-house	Kalivelpil	305 1 3	Thatched building of a single room; length 12', breadth 12'.	Out-house.	
Do.	Do.	Tannah hut	Koluthamm-malai	65 9 4	Thatched building of a single room; length 12', breadth 12'.	Rest-house of the Forest guard.	

A detailed list of completed Forest buildings in the Madras Presidency with their approximate cost, &c.—cont.

District.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.
SOUTHERN CIRCLE—cont.							
Tinnevely cont.	Northern Range.	Bungalow	Athithimodu	Rs. A. P. 434 3 7	.....	..	
	Do.	Kitchen	Do.	151 13 4	.....	..	
	Nagavari sub-range	Kitchen to the rest-house.	Sengatieri	20 8 0	Thatched building, 1 room	..	
	Do.	Bungalow	Nadukani	200 8 0	Thatched building, 1 room and verandah, length 27' breadth 27'	Rest-house.	
	Do.	Out-house	Asanthu hills	200 2 0	Thatched building, length 11' breadth 8'	Out-house.	
	Tendrakai sub-range	Bungalow	Nazareth	1,000 0 0	Tiled building of 3 rooms and verandahs on 3 sides, length 43' breadth 12'	Rest-house.	
	Do.	Do.	Do.	200 0 0	Tiled building of 1 room, length 12' X 12' breadth 12'	Forest guards' quarters.	
	Do.	Do.	Vallanad	875 0 0	Tiled building of 3 rooms and verandahs on 3 sides, length 43' breadth 12'	Rest-house of the Forester.	
	Do.	Do.	Do.	200 0 0	Tiled building of 1 room, length 12' breadth 12'	Forest guards' quarters.	
	Satyman-galam.	Inspecting officer's residence.	Talamalai	250 0 0	39' X 12' with mud walls and tiled roof	Used by inspecting officers.	
	Do.	Do.	Ekkatur	250 0 0	32' X 15'	Do.	
	Do.	Residence of Forester.	Talavadi	250 0 0	15' X 8'	As Forester's residence.	
	Do.	Inspecting officer's residence.	Hasanar	350 0 0	40' X 12½'	By inspecting officers	Transferred from Local Fund Department.
North Coimbatore.	Do.	Do.	Markunpolliem	670 0 0	44' X 10'	Do.	
	Do.	Do.	Karalia	670 0 0	44' X 10'	Do.	
	Do.	Do.	Gairmallam	800 0 0	.....	.....	
	Do.	Do.	Geddassal	.....	.....	.....	
	Kollegal	(a) Residence and (b) Range office.	Kollegal	580 0 0	104' 51" X 13' 1" with brick walls and tiled roof	For the use of the Range officer and his office.	Transferred from Local Fund Department.
	Do.	Inspecting officer's residence.	Kowdally	250 0 0	32½' X 16½'	By inspecting officers	
	Do.	Do.	Bylar	400 0 0	do.	Do.	Transferred from Local Fund Department.
	Do.	Do.	Lokanathally	.....	do.	Do.	
	Do.	Do.	Ponachi	310 0 0	41' X 15'	do.	Do.
	Do.	Do.	Alambady	310 0 0	do.	do.	Do.
	Do.	Do.	Hannur	300 0 0	do.	do.	Do.
	Do.	Do.	Thandavath	570 0 0	do.	do.	Do.
	Do.	Do.	Gopinatham	570 0 0	do.	do.	Do.
	Do.	Do.	Changadi	250 0 0	34' X 16½'	do.	Do.
	Bhavani	Range's quarters and store-room.	Bhavani	1,000 0 0	11' X 15' with mud walls and tiled roof	As residence of the Ranger.	
South Coimbatore.	Do.	Do.	Tamarakkurai	350 0 0	do.	do.	By inspecting officers.
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	
	Do.	Do.	Do.	.....	.....	.....	

No. I. Tuna-cudavu Range.	District Forest officer's quarters.	Mount Stuart	2,500 0 0	Iron roof, consists of 3 rooms of 14½' X 11½', 14½' X 14½' and 14½' X 11½' respectively, 2 bath-rooms and 2 store-rooms with verandah on two sides.	District Forest officer's residence.
Do.	Godowns	.....	350 0 0	Tiled, consists of 4 rooms of 8½' X 7½', 8½' X 8½', 8½' X 7½' and 8½' X 7½' respectively.	.....
Do.	Stables	.....	150 0 0	Tiled, consists of 3 rooms of 12' X 8', 12' X 7½' and 12' X 7½' respectively.	.....
Do.	Sub-Assistant's bungalow.	.....	3,250 0 0	Iron roof, consists of 2 rooms of 20' X 12½' and 20½' X 12½', 2 bath-rooms of 10½' X 6½' and 11½' X 6½' and store-room of 11½' X 6½'.	Range officer's office and quarters.
Do.	Ranger's quarters.	.....	500 0 0	Tiled roof, consists of 4 rooms of 11½' X 8½', 11½' X 8½', 9½' X 8½' and 9½' X 8½' respectively.	Old Ranger office quarters now occupied by a Forester.
Do.	Out-house	.....	75 0 0	Tiled roof, 8' X 8'	Writer's and peon's residence.
Do.	Writer's and peon's quarters.	.....	700 0 0	Iron roof, consists of 4 rooms of 16½' X 10', 16½' X 9½', 16½' X 9½' and 16½' X 9½' respectively.	For tramway materials.
Do.	Store-shed	.....	300 0 0	Iron roof, consists of 2 rooms of 12' X 12' each	Vacant.
Do.	Forester's quarters.	Mount Stuart	350 0 0	Tiled roof, consists of 2 rooms of 15½' X 12½', 12½' X 12½' and 1 bath-room 8½' X 7½' with verandah on two sides.	Forester's and guards' residence.
Do.	Forester's and guards' quarters.	Anapadi	200 0 0	Thatched shed, consists of 15 rooms of 10' X 10' each	.....
Do.	Store-shed	Do.	208 0 0	Wooden sides with corrugated iron sheet roofing 6' X 14½'	For elephant, things, &c.
Do.	Ranger's quarters.	Sethumadai	950 0 0	Tiled with Mangalore tiles, consists of 3 rooms of 12½' X 11½', 12½' X 12½' and 12½' X 11½', 2 bath-rooms and verandah on two sides.	Range officer's office and residence.
Do.	Clerk and peon's quarters.	Do.	500 0 0	Tiled, consists of 3 rooms with compartments of 9' X 9' and 6' X 9' in each room.	Clerk's and peon's residence.
No. II. Pol-lachi Range.	District Forest officer's bungalow.	.....	2,300 0 0	Consists of 3 rooms 15' X 12', 15' X 15' and 15' X 12', respectively, and 1 bath-room, 1 store-room with verandah on 2 sides. There are also 1 line with 3 stalls and 1 line of 2 kitchens and 2 godowns.	Used by the District Forest officer as a rest-house and by officers of other departments.
No. II. Pol-lachi.	Ranger's quarters.	Sethumadai	550 0 0	Consists of an office hall 27' X 12½' and 2 store-rooms of 8' X 6' each and a verandah attached to the office and 3 rooms consisting of 10' X 8½', 11' X 10' and 10' X 8½', and 2 side rooms, a bath and a kitchen-room outside.	Range officer's office and residence.
Do.	Forester's quarters.	Do.	500 0 0	Consists of 2 rooms 9½' X 9' and 9' X 8½' and a bath-room	Do.
No. II. Pol-lachi Range.	Writer's quarters.	Do.	200 0 0	Consists of 2 rooms 9½' X 9' and an out-house (kitchen) and a verandah in front and an out-house (kitchen).	Used by the Tanadar and Forest guard.
Do.	Anamalais bungalow.	Anamalais	850 0 0	Consists of 2 rooms 10½' X 9½' and 8' X 9½'	Writer's residence
Do.	Pol-lachi depot building.	Pol-lachi	1,000 0 0	The main building consists of 2 rooms 15½' X 15½' and 14' X 12' close together, with a bath-room and a separate room 15' X 15', with a thatched verandah 52' X 31' connecting this with the main building and a thatched verandah all round. There is a thatched kitchen consisting of 2 rooms.	Used as a rest-house occasionally. The compound forms a timber depot.
Do.	Pol-lachi rest-house.	Vellooni	350 0 0	Consists of an small room 12½' X 8' and a verandah all round inside, and with also a verandah all round outside. The building is 48½' X 48½'; a tiled out-house used as a latrine is also attached. A tiled building consists of 2 rooms 12' X 12' and 12' X 7' with an open, thatched verandah in front.	Do. The compound forms a timber depot.

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A detailed list of completed Forest buildings in the Madras Presidency with their approximate cost, &c.—cont.

District.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.
North Malabar.	Ootacamund Range.	Forester's house.	Naduvtam ..	Rs. A. P. 779 0 0	A brick building with corrugated iron roofing. This consists of 3 rooms (2 rooms 14' x 12' each) and (1 room 6' x 12'), with 4 doors (2 doors 6' x 4' each) and (2 doors 5' x 2' each), three windows 3' x 4' each—Rs. 540. Out-houses to doors consisting of 2 rooms 10' x 10' each with 2 doors 4' x 6' each, 2 windows 2' x 3' each—Rs. 239.	Used by the Forester.	
	Do.	Depot clerk's office room.	Ootacamund ..	173 13 11	A brick building with tiled roof	Used as an office room by the Depot clerk.	
	Do.	Ranger's bathing shed.	Muttenad ..	173 0 0	Thatched hut with mud walls. This consists of 2 rooms (13' x 10' each), 3 doors (6' x 3' each), 2 windows (2' x 1' each).	Used as a residence of the Ranger when on tour.	
	Do.	Guard's hut	Neduvattam ..	159 0 0	Tiled roof walls plastered with mud. This consists of 2 rooms (12' x 10', 10' x 6', with 2 doors (5' x 2' each), 2 windows (2' x 1' each).	Used as a residence by the Guard.	
	Do.	Do.	Pykara ..	140 0 0	Thatched hut with mud walls. This consists of 2 rooms (12' x 10', 10' x 6'), with 2 doors (5' x 2' each), 2 windows (2' x 1' each).	Do.	
	Do.	Do.	Bikata ..	116 0 0	Do.	Do.	
	Do.	Do.	Chinna Coonoor.	87 0 0	Do.	Do.	
	Manantoddy	Residence	Manantoddy ..	12,377 0 0	Built of burnt-bricks and teak-wood, partly iron-roofed under Mangalore tiles. Consists of 11 rooms and a verandah in front 50' 6" wide and a portico. Rooms are of the following dimensions:—19' 7" x 9'; 16' 4" x 18' 10"; 16' 4" x 7' 11"; 18' 10" x 15' 10"; 15' 10" x 7' 11"; 7' 11" x 7' 11"; 16' 11" x 17' 11"; 16' 5" x 7' 10"; 16' 11" x 8' 10" x 8' 10" x 7' 10".	Residence for District Forest-officer.	District Forest-officer pays a rent of Rs. 40 per mensem.
	Do.	Stables and godown.	Do.	1,439 0 0	Built of burnt-bricks and teak-wood and tiled; has 6 divisions, one of 16' 8" x 10' 2" and 5 rooms of 10' x 8' 2" each.	Used for horses and bullocks; and as residence of servants.	
	Do.	Cook-room	Do.	604 0 0	Built of burnt-bricks and teak-wood and tiled; has 4 rooms and a verandah in front 6' 10". The rooms are 15' x 12'; 12' x 12'; 15' 4' x 4' and 12' x 4'.	Used as cook-room and store.	
South Malabar.	Do.	Old office	Do.	669 0 0	There are 3 rooms of 22' x 11' 9"; 25' x 16' 10"; 9' 10' x 6' 10" with verandah on 2 sides 8' wide.	Used as record-rooms.	
	Do.	New office	Do.	651 0 0	Has 2 rooms of 20' x 13' and 12' x 13' with 8' verandah in front and back.	Used as office.	
	Do.	Gardner's house.	Do.	42 0 0	Has a room 16' 3" x 10' 2"	Residence of gardener of the Manantoddy Experimental Farm.	
	Do.	Bed-house	Do.	264 0 0	Built of teak-wood and burnt-bricks with glazed roof of 15' 2" x 10' 8" in dimension.	For raising plants.	

Southern Circle—cont.

North Malabar.	Begur	Rest-house	Begur ..	1,143 0 0	Walled with teak planks and tiled, consists of two rooms of 16' 2" x 12' and 11' 8" x 12' and a verandah all round 5' wide.	Residence and office for the Range officer.	Was built by Mr. Pect in 1874 or 1875 at a cost of Rs. 1,000. It was a shingled one. It has been tiled at a cost of Rs. 142-18-1
	Do.	Residence	Do.	574 0 0	Consists of 2 rooms 10' x 10' and a verandah all round 5' wide.	Rest-house of the District Forest-officer.	
	Do.	Elephant shed	Do.	602 0 0	It is of 58' x 18'	Stabling elephants as well as residence for mahout.	
	Do.	Madout lines	Do.	561 0 0	Four rooms, each being 12' x 9'	Storing provisions for elephants.	
	Do.	Store	Do.	375 0 0	Has one room 20' x 12' and another by 12' x 12' and verandah in front 5' wide.	Rest-house for District Forest-officer and Range officers for inspection.	
	Brammagiri.	Rest-house	Brammagiri ..	1,026 0 0	Forest lodge built of rock and clay and roofed with iron; has 3 rooms, 14' 2" x 14' 2", 14' 3" x 14' 2" and 10 1/2' x 7' with 4 verandah in front.	Used as kitchen.	
	Do.	Kitchen	Do.	197 0 0	Iron-roofed and built of stone, bricks, &c., of 18' 4" x 11' with a verandah 4 1/2' in front.	Residence for Forest guard.	
	Tirunelly	Forest guard's station.	Tirunelly ..	376 0 0	Built of mud with teak roof and tiled; has a room 17 1/2' x 9 1/2' with 5' verandah all round.	Do.	
	Kakkery	Do.	Kakkery ..	242 0 0	Has a room 12' x 12' with verandah in front of 4' wide; has the roof tiled.	Do.	
	Kakkery	Do.	Kakkery ..	230 0 0	Do.	Do.	
South Malabar.	Kakkery	Do.	Kakkery ..	230 0 0	Do.	Do.	
	Kakkery	Do.	Kakkery ..	2319 0 0	Built of sun-dried bricks and iron-roofed; has 8 rooms, 2 of them being 14' 6" square, the other 2 being 14' 3" x 6' 9" and the remaining 4 being 6' 9" square each.	Residence and office for Range officer.	
	Dindimal	Do.	Dindimal ..	1,080 0 0	A bungalow with kitchen, &c., stable, built of burnt-bricks and of different kinds of wood and tiled; has 11 rooms of 8 1/2' x 8 1/2', 21' x 8 1/2' (each), 16 1/2' x 8 1/2', 16 1/2' x 8 1/2', 13' x 13 1/2', 16 1/2' x 16 1/2', 16 1/2' x 27 1/2', 13' x 8 1/2' x 8 1/2' in dimensions with 2 verandahs 3 1/2' x 16 1/2', 8 1/2' x 18 1/2' and a porch 17' x 21' in front.	Rest-house for the District Forest-officer and Range officer.	
	Makkie	Do.	Makkie ..	488 0 0	Wooden serambi, tiled; has 2 rooms 16' square with a 3' verandah all round.	Residence and office for Range officer.	Purchased from Messrs. Alston and Co.
	Kanot	Do.	Kanot ..	416 0 0	Wooden serambi, tiled; bottom closed with sun-dried bricks; has 2 rooms of 10' square each and a 4' verandah all round.	Do.	
	Chedlet	Rest-house	Chedlet ..	548 4 7	Wooden double serambi, tiled; has 5 rooms 4 rooms of 10' x 10' square each and 1 room 10' x 4' and a verandah 4' x 10' square on the upper floor.	Rest-house for District Forest-officer and Range officer for inspection.	
	Do.	Do.	Muthunga ..	* 557 5 9	Wooden double serambi, tiled; has 5 rooms 4 rooms of 10' x 10' square each and 1 room 10' x 4' and a verandah 10' wide in front and 4' on all other sides.	Do.	
	Nilambur	Inspection shed.	Pennauged ..	190 0 0	Wooden serambi with tiled roofing; has a big room	Used as inspection shed by the District Forest-officer, Range officer and Foresters.	* Original sanction Rs. 530. Supplemental sanction accorded for Rs. 40—vide Board's Proceedings, M.S. No. 612, dated 26th May 1896.
	Do.	Office and rest-house.	Anarampalam ..	100 0 0	Wooden serambi with thatched roof; and has a room	Do.	
	Do.	Office	Nilambur ..	3,900 0 0	A tiled bungalow built of laterite stone; has 6 rooms	Ranger's quarters and Range office.	
South Canara.	Do.	Residence	Do.	2,000 0 0	Tiled house built of laterite stone; has 2 rooms	Used as South Malabar District Forest-officer's quarters.	
	Do.	Office and rest-house.	Nilambur hill ..	13,469 0 0	One storied tiled bungalow with out-houses built of laterite stone; consists of 4 rooms, a store and a pantry.	District Forest-officer's quarters.	
	Coondapoor.	Old Muneif's Court.	Kallai ..	541 0 0	Serambi with tiled roofing built of timber and has 2 rooms	Used as depot office and rest-house for subordinates.	
	Do.	Forest hut	Sabladi reserve ..	2,100 0 0	A rectangular building 55' x 38' with 4 rooms built of stones with a tiled roof.	Range office	

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Transferred from the Public Works Department—vide G.O., dated 9th August 1892, No. 2200 W. The building requires certain repairs.

A detailed list of completed Forest buildings in the Madras Presidency with their approximate cost, &c.—cont.

District.	Name of range.	Name of building.	Situation.	Cost.	Description of building and accommodation available.	How used.	Remarks.
SOUTHERN CIRCLE—cont.							
Udipi	Forest hut	Plakhan reserve.		75 0 0	The main building is 31' long X 20' broad; contains two rooms, one 17' X 12' and the other 12' X 8½', with a verandah 8' broad facing east. Each room has 2 doors and 2 windows. The walls are of mud and 8½' high 1½' thick. There is an additional room to the south-west 3½' square with one door. The roof is a thatched one. The main building occupied a space of 33' X 15' and contained 2 rooms, one 17' X 9' and the other 9' X 9', and a small verandah in front of the building; the roof is a thatched one.	Forest Rest-house.	The building has come down as it was not repaired.
Do.	Tannah	Someshwar					
Mangalore	Do.	Jeppu, Mangalore town.		75 0 0	Is a mud and tiled building 15' X 13' 3" consisting of 1 room 8' 7" X 10' 14" and one verandah 13' 3" X 5' 4".	Do.	
Do.	Do.	Kulkouadi, Mangalore town.		75 0 0	Is a mud and tiled building 10' X 12' 11" consisting of 1 room 10' 8" X 7' 5" and 1 verandah 11' 5" X 5' 11".	Do.	
Do.	Do.	Police hospital.		75 0 0	Is a mud and tiled building 18' X 13' 8" consisting of 1 room 7' 9" X 9' 2" and 1 verandah 6' X 11' 9".	Do.	
Do.	Do.	Bijai		75 0 0	Is a mud and tiled building 16' 3" X 13' 6" consisting of 1 room 7' 6" X 10' 4" and 1 verandah 6' 2" X 10' 3".	Do.	
Do.	Do.	Kadiri		75 0 0	Is a mud and tiled building 16' 3" X 13' 2" consisting of 1 room 7' 4" X 10' 1" and verandah 6' 1" X 11".	Do.	
Do.	Do.	Urwa		75 0 0	Is a mud and tiled building 17' 1" X 13' 1" consisting of 1 room 8' 1" X 10' 4" and verandah 9' 1" X 10' 6".	Do.	
Do.	Forest hut	Ullal plantation.		70 0 0	Is a wooden building 12' X 8', consisting of 2 rooms, of which one 8' X 5' and the other 8' X 4'.	Residence of gardener.	
Do.	Do.	Tannir Bhavi plantation.		70 0 0	Do.	Do.	
Uppanagadi.	Tannah	Jalpur		17 0 0	Built of mud with a thatched roof; is 21' long, 15' broad and 7' high; contains 2 rooms each 12' X 10' with a verandah 27' X 4'.	As tannah.	
Do.	Do.	Uppanagadi		30 0 0	Is a mud and thatched building 28' long, 15½' broad and 7½' high; contains 2 rooms, one 11' X 11' and the other 18' X 4½'; with 2 verandahs, one 9½' X 12' and the other 18' X 4½'.	Do.	
Do.	Do.	Puttur		39 0 0	Is a mud and thatched building 21' long, 16½' broad and 7' high; containing 2 rooms 10½' X 10' and 19' X 4', with 2 verandahs 12' X 6½' and 12' X 7'.	Used as Land Trade Registration office.	
Do.	Range office	Do.			Is built of stone with a tiled roof and is 49' long, 33½' broad and 13½' high; and contains 3 rooms 31½' X 25', 12' X 12' and 12' X 7', with 1 verandah on the east 12' X 7' and one on the north 12' X 7'.	As Range office.	Was formerly Munsiff's Court and was taken by the department in 1889-90.
Do.	Tannah	Siradi		23 0 0	Is a mud and thatched building 28' long, 12' broad and 9' high; containing 2 rooms 10' X 10' and 20' X 6', with verandah 15' X 10' and another 28' X 3' and a portico.	As tannah.	
Do.	Do.	Charmadi		27 0 0	Is a mud and thatched building 28' X 12' X 9', containing one room 19' X 10' with 2 verandahs 19' X 10' and 28' X 3'.	Do.	
Kasaragod.	Forest hut	Parappa teak plantation.		100 0 0	Is built of mud and has a thatched roof, it is 31½' X 18' and consists of 2 rooms 16' X 12' and 12' X 12' with verandah on 3 sides.	Residence for watcher and rest-house for Range officer.	

South Canara—cont.

FOREST DEPARTMENT.

ANNUAL FORM No. 59-A.

Forest Department, Madras Presidency.

AREA of Reserved Forests, 1892-93.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.	ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.	Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.
NORTHERN CIRCLE.								
Ganjām.	West Goom-sur.	Dimrijholi	5,486			5,486		
	East Goom-sur.	Jaganathprasad	26,200			26,200		
		Chondragiri	18,320			18,320		
	Suradā	Bondagoocha	4,400			4,400		
		Malati	1,720			1,720		
		Dabuki	1,450			1,450		
		Vinjagiri	6,000			6,000		
	Bugudā	Punchbuthia	4,320			4,320		
		Vishnuachakram	4,860			4,860		
		Total	72,756	113.68		72,756	113.68	
Vizagapatam.	Sarvasiddhi.	Poddapalle	8,960			8,960		
	Gulconda.	Arlova		2,473		2,473		No 486 of 14th Oct. 1892.
		Kakariakonda		1,924		1,924		Do.
		Venkatapuram		508		508		Do.
		Kodavastipudi		1,544		1,544		Do.
		Total	8,960	14	6,449	15,409	24.08	
Goddavari.	Delta	Narasapur	114			114		
		Coringa	7,000			7,000		
		Bendumurlianka	362			362		
		Pulsumamidi	4,520			4,520		
	Rékapalle.	Marigura	44,500			44,500		
		Mattapalli	9,500			9,500		
		Nolkota	2,500			2,500		
	Bhadra-chalam.	Komanpalli	3,250			3,250		
		Bandroe	10,900			10,900		
	Marrigudem.	Golagmpa	8,000			8,000		
		Narakonda	7,500			7,500		
		Pengha	4,400			4,400		
		Upanapali	3,300			3,300		
		Tutlanka	12,000			12,000		
		Ramachendram	10,300			10,300		
		Rapak	7,000			7,000		
		Sitarampuram	3,000			3,000		
	Rékapalle.	Bhandargudom	7,100			7,100		
		Burkankota	1,500			1,500		
		Lakkavaram	6,500			6,500		
		Kallera	6,500			6,500		
	Ellore	Chintalapudi	2,000			2,000		
		Tadikalapudi	2,500			2,500		
		Bandamcherla	5,200			5,200		
		Erraguntapalli	8,640			8,640		
	Bhadra-chalam.	Velagalapalli	2,200			2,200		
		Mulkanapalle	3,658			3,658		
		Dummingudem	6,110			6,110		
		Arlagudem	6,136			6,136		
	Ellore	Tinnikicheruvu	8,022			8,022		
		Bhadra-chalam	10,860			10,860		
		Gogubaka	1,666			1,666		
		Barrikonda	3,500			3,500		
	Rajak-mundry.	Munari	700			700		
		Kanshr	6,200			6,200		

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANS- FERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equiva- lent in square miles.			Acres.	Equiva- lent in square miles.		
NORTHERN CIRCLE—cont.										
Gôdâvari —cont.	Rajah- mundry.	Kovida	1,280	...	...	...	1,280	...	No. 476 of 15th Jan 1892. No. 53 of 27th Jan 1892.	
		Veligogula	12,000	...	...	...	12,000	...		
	Peddâpur.	Sarlanka	15,000	...	...	...	15,000	...		
		Raghavapatnam	3,600	...	...	...	3,600	...		
		Anantavaram	4,000	...	...	...	4,000	...		
		Totapalli	2,150	...	...	...	2,150	...		
	Ellore	Ramasingavaram	2,500	...	...	...	2,500	...		
		Mollera	...	...	8,250	...	8,250	...		
	Rajah- mundry.	Sudikonda	...	...	6,880	...	6,880	...		
		Total	267,668	418.23	16,180	...	2,82,798	441.87		
Bander		Kara	21	...	...	...	21	...		
		Vandhurn	64	...	...	...	64	...		
		Bomminapadu	26	...	...	...	26	...		
		Vemavarunipadu	16	...	...	...	16	...		
		Allinagaram	125	...	...	...	125	...		
		Bandar Fort	7,500	...	...	...	7,500	...		
		Kodur	50	...	...	...	50	...		
		Gollapalem	320	...	...	...	390	...		
		Sorlagondi	2,880	...	...	...	2,880	...		
		Yellachetladibba	4,640	...	...	...	4,640	...		
Bezawada.		Konukollu	667	...	...	...	667	...		
		Nachugunta	8,640	...	...	...	8,640	...		
		Weld	75	...	...	...	75	...		
		Palakayattippa	3,320	...	...	...	3,320	...		
		Gopuvaranipalem	206	...	...	...	206	...		
		Gavaravaram	84	...	...	...	84	...		
		Bezawada	300	...	...	...	300	...		
		Gunadala	400	...	...	...	400	...		
		Kondapalli extension	1,225	...	...	...	1,225	...		
		Budavada	4,650	...	...	...	4,650	...		
Guntûr		Jaggayyapeta	4,570	...	...	...	4,570	...		
		Kothur	7,230	...	...	...	7,230	...		
		Kondur	4,140	...	...	...	4,140	...		
		Nidamarru	383	...	...	...	383	...		
		Karlupudi	994	...	...	...	994	...		
		Narakodur	515	...	...	...	515	...		
		Kuragallu	1,305	...	...	...	1,305	...		
		Tadepalli	2,305	...	...	...	2,305	...		
		Kondavid	12,857	...	...	...	12,857	...		
		Gollamandi	194	...	...	...	194	...		
Satten- palle.		Konarki	3,600	...	...	...	3,600	...		
		Bellamkonda	1,380	...	...	...	1,380	...		
		Venkatayyapalem	49,201	...	...	...	49,201	...		
		Nevalinuri	11,500	...	...	...	11,500	...		
		Bollupalli	40,000	...	...	...	40,000	...		
		Kakeraia	17,520	...	...	...	17,520	...		
		Guthikonda	37,760	...	...	...	37,760	...		
		Tunimurukodu	24	...	...	...	24	...		
		Gangalakunta	24,461	...	...	...	24,461	...		
		Madigirad	9,600	...	...	...	9,600	...		
Vinakonda		Lankavandibba	4,480	...	...	...	4,480	...		
		Kothapalem No. I	3,840	...	...	...	3,840	...		
		Dindi	600	...	...	...	600	...		
		Adavaladivi	610	...	...	...	610	...		
		Bapatla No. I	245	...	...	...	245	...		
		Do. No. II	1,032	...	...	...	1,032	...		
		Karlupalem No. I	105	...	...	...	105	...		
		Do. No. II	208	...	...	...	208	...		
		Vedullapalli	176	...	...	...	176	...		
		Muthayyapalem	9,569	...	...	...	9,569	...		
Painâd		Pandilapalli	162	...	...	...	162	...		
		Wadereva	82	...	...	...	82	...		
		Kothapalem No. II	3,100	...	...	...	3,100	...		
		Nayanaipalli	152	...	...	...	152	...		
		Or's Reserve	123	...	...	...	123	...		
		Kondapalli	...	...	20,722	...	20,722	...		
		Bapatla.		Karlupalem No. I	105	...	...	...	105	

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANS- FERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equiva- lent in square miles.			Acres.	Equiva- lent in square miles.			
NORTHERN CIRCLE—cont.											
Kistna- cont.	Guntár	Kolakalur			1,356		1,356		No. 282 of 15th June 1892.		
	Vinukonda.	Koppukonda			5,000		5,000		No. 300 of 24th June 1892.		
	Painád.	Pasvemula			22,782		22,782		No. 93 of 5th Mar. 1892.		
		Kundlagunta			34,947		34,947		No. 47 of 22nd Jan. 1892.		
		Tangedu			1,300		1,300		No. 543 of 25th Nov. 1892.		
		Mutakur			31,360		31,360		No. 258 of 1st June 1892.		
	Total		289,307	452.04	117,467	1,630	405.144	633.04			
Ananta- pur.	Gooty	Khojjapalle	342				342				
		Pamidi	640				640				
	Muchakota.	Anantapur	129				129				
	Penu- konda.	Narasunpalle	2,210				2,210				
		Kottakota	11,016				11,016				
		Neiradykonda	2,217				2,217				
	Dharma- varam.	Boodikonda A & B	1,275				1,275				
	Hindápur	Sommarajmalai	2,116				2,116				
		Guntakal No. I			384		384			Nos. 67, 68 & 69 of 13th Feb. 1892.	
		Do. II			165		165				
	Gooty	Do. III			384		384				
		Peddadoddi			2,479		2,479			No. 287 of 16th May 1892.	
		Bhadrapalli			4,226		4,226			No. 17 of 9th Jan. 1893.	
		Dargam			3,640		3,640			No. 407 of 22nd Aug. 1893.	
Mocha- kota.	Kunnakotta			1,616		1,616			No. 406 of 22nd Aug. 1892.		
	Chillavaripalli			4,080		4,080			No. 409 of 22nd Aug. 1892.		
	Daditota			3,634		3,634			No. 466 of 21st Sep. 1892.		
	Neriyampalli			2,285		2,285			No. 485 of 10th Oct. 1892.		
	Yellutla			9,182		9,182			No. 38 of 16th Jan. 1893.		
	Bhadrapur			5,120		5,120			No. 151 of 12th April 1892.		
	Dharma- varam.	Kalyandrug, North			475		475			Nos. 294 & 303 of 15th June 1892.	
		Do. South			996		996				
	Penu- konda.	Agraharam			2,134		2,134			No. 562 of 25th Nov. 1892.	
		Vengalammacheruvu			2,371		2,371			No. 18 of 9th Jan. 1893.	
Hindápur.	Konder			607		607			No. 353 of 1st Aug. 1892.		
	Total		19,944	31.16	44,678		64,622	100.97			
Bellary.	Bellary	Timmapuram	1,046				1,046				
		Tekkalekóta	600				600				
		Bellary	8,000				8,000				
		Tornagallu	2,100				2,100				
		Halikota	640				640				
		Karugodu, West	750				750				
		Do. North-West	250				250				
		Rayadurgam	6,000				6,000				
		Mincheri	4,000				4,000				
		Adaguppa	950				950				
		Joga	3,264				3,264				
		Gollalingammanahalli.	1,000				1,000				
	Sandúr.	Gundu	5,456				5,456				
		Somalapuram	2,600				2,600				
Tummaraguddi		2,500				2,500					

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
NORTHERN CIRCLE—cont.										
Bellary—cont.	Kádligi.	Shivapuram	9,000	...	...	...	9,000	...	...	
		Chiribi	3,000	...	...	...	3,000	...	...	
		Sunkadakallu	7,000	...	...	...	7,000	...	...	
	Ádóni	Halvi	1,209	...	...	...	1,209	...	...	
		Halokota	438	...	...	...	438	...	...	
		Gummanur (N., N.-E., N.-W.)	646	...	...	...	646	...	...	
		Yeruru (S., S.-W., W.)	522	...	...	...	522	...	...	
		Chippigiri (S., S.-E., W.)	1,160	...	...	...	1,160	...	...	
		Degulahalu	110	...	...	...	110	...	...	
		Nandavaram	958	...	...	...	958	...	...	
		Katalam	658	...	...	...	658	...	...	
	Banavasi	2,109	...	...	...	2,109	...	...		
	Badanahalu	940	...	...	...	940	...	...		
	Bellary	Saguru	...	...	530	...	530	...	...	No. 190 of 7th May 1892.
		Nadivi	...	...	425	...	425	...	...	No. 210 of 10th May 1892.
		Vonnahalli	...	...	105	...	105	...	...	No. 400 of 18th Aug. 1892.
		Mundrigi	...	...	49	...	49	...	...	No. 364 of 11th Aug. 1892.
		Dharmapuram	...	...	4,100	...	4,100	...	...	No. 467 of 12th Oct. 1892.
	Ádóni	Ganskallu	...	...	1,070	...	1,070	...	...	No. 259 of 10th June 1892.
		Kotekallu	...	...	2,575	...	2,575	...	...	No. 379 of 25th July 1892.
Ádóni, East		...	...	1,834	...	1,834	...	...	No. 190 of 27th Feb. 1893.	
Ramadurgamkonda.		...	...	337	...	337	...	...	No. 549 of 25th Nov. 1892.	
Nagaradons		...	...	140	...	140	...	...	No. 572 of 6th Dec. 1892.	
Kenchigara Belgallu.		...	...	856	...	856	...	...	No. 91 of 6th Feb. 1893.	
Holalagondi		...	...	906	...	906	...	...	No. 21 of 9th Jan. 1893.	
Muddatamagi		...	...	317	...	317	...	...	No. 33 of 16th Jan. 1893.	
Virupapuram		...	...	110	...	110	...	...	No. 37 of 19th Jan. 1893.	
Pagalachukkuvanka.		...	...	241	...	241	...	...	No. 101 of 13th Feb. 1893.	
Ubbalagundi		...	...	692	...	692	...	...	No. 116 of 18th Mar. 1892.	
Hospet		...	...	3,030	...	3,030	...	...	No. 236 of 26th May 1892.	
Sawdár	Bandri	...	...	16,239	...	16,239	...	...	No. 495 of 17th Oct. 1892.	
	Bukkasagaram	...	...	5,987	...	5,987	...	...	No. 596 of 7th Dec. 1892.	
	Bellekallu	...	...	12,447	...	12,447	...	...	No. 149 of 17th Mar. 1893.	
	Alagilavada	...	...	1,900	...	1,900	...	...	No. 120 of 16th Mar. 1892.	
Kádligi	Simbalagiri	...	...	4,792	...	4,792	...	...	No. 192 of 7th May 1892.	
	Banivallu	...	...	3,564	...	3,564	...	...	No. 213 of 12th May 1892.	
	Sunkadakallu, East.	...	...	843	...	843	...	...	No. 380 of 17th Aug. 1892.	
	Ramadurgam	...	...	2,500	...	2,500	...	...	No. 595 of 6th Dec. 1892.	
	Uchchangidurgam	...	...	4,200	...	4,200	...	...	No. 23 of 9th Jan. 1893.	
Total			66,906	104.64	69,789	...	136,695	213.68		

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANS- FERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equiva- lent in square miles.	Acres.	Acres.	Acres.	Equiva- lent in square miles.		
NORTHERN CIRCLE—cont.										
Kurnool	Sirvel	Sirvel	116,730	...	...	...	116,730	...	...	
	Cumbum.	Veligondas, South	16,755	...	...	...	16,755	...	...	
		Do. North	21,540	...	...	...	21,540	...	...	
		Uyyalavada	76,800	...	...	...	76,800	...	...	
	Nandyal and Nan- dikotkur.	Nandyal	185,700	...	...	...	185,700	...	...	
		Nandikotkur	256,000	...	...	...	256,000	...	...	
	Ramalla- kot.	Ramallakot, East	1,000	...	...	...	1,000	...	...	
		Do. West	1,000	...	...	...	1,000	...	...	
		Lanjabanda	2,000	...	...	...	2,000	...	...	
		Yaperlapad	3,384	...	...	...	3,384	...	...	
		Gadidamaduga	2,891	...	...	...	2,891	...	...	
	Cumbum and Mar- kapur.	Cumbum	...	...	217,600	...	217,600	...	...	No. 104 of 7th March 1892.
		Markapur	...	...	181,875	...	181,875	...	...	No. 105 of 5th Mar. 1892.
	Cumbum	Western Veligondas.	...	...	17,780	...	17,780	...	...	No. 50 of 22nd Jan. 1892.
	Ramallakot.	South Dhone	...	...	3,989	...	3,989	...	...	No. 52 of 19th Jan. 1892.
	Total	...	683,300	1,068.44	421,244	...	1,105,044	1,726.63		
	Total of the Circle	...	1,400,341	2,202.09	674,757	1,630	2,082,468	3,253.85		
CENTRAL CIRCLE.										
Nellore.	Ongole	Kottapatam	...	147	...	...	147	...	...	
		Kanuparti	...	520	...	...	520	...	...	
		Ongole Hill	...	60	...	...	60	...	...	
		Ramapatam Casua- rins Plantation.	...	60	...	...	60	...	...	
	Kandukur.	Chagolla	...	1,010	...	...	1,010	...	...	
		China Laterapi	...	1,548	...	...	1,548	...	...	
		Ravur	...	2,187	...	...	2,187	...	...	
		Chakicherla	...	323	...	...	323	...	...	
		Ramapatam	...	1,516	...	...	1,516	...	...	
		Boddipadi	...	500	...	...	500	...	...	
		Gudlur	...	3,297	...	...	3,297	...	...	
		Macherla Chelam- cherla.	...	12,236	...	...	12,236	...	...	
		Tummalapenta	...	100	...	...	100	...	...	
		Muddurpad	...	2,012	...	...	2,012	...	...	
	Zaladanki, East	...	600	...	...	600	...	...		
	Do. West	...	1,254	...	...	1,254	...	...		
	Tummalapenta, South.	...	392	...	...	392	...	...		
	Dharmavaram	...	189	...	...	189	...	...		
	Zammalapalem	...	1,130	...	...	1,130	...	...		
	Rudrakota	...	2,100	...	...	2,100	...	...		
	Gattupalli	...	838	...	...	838	...	...		
	Gollapalem	...	960	...	...	960	...	...		
	Talipalem	...	848	...	...	848	...	...		
	Kávali	Manubolupad	...	1,192	...	...	1,192	...	...	
		Chinna Annalur	...	3,400	...	...	3,400	...	...	
		Kávali	...	2,000	...	...	2,000	...	...	
		Dundigam	...	515	...	...	515	...	...	
		Chamadala	...	750	...	...	750	...	...	
		Zakkepalli-Gudur	...	800	...	...	800	...	...	
		Nagalavaram	...	414	...	...	414	...	...	
Tummalapenta, West.		...	2,280	...	...	2,280	...	...		
Bitragunta		...	1,908	...	...	1,908	...	...		
Narayanapuram		...	2,392	...	...	2,392	...	...		
Nellore	Kesavaram	...	908	...	...	908	...	...		
	Tummalapenta, North.	...	1,300	...	...	1,300	...	...		
	Iskapalle	...	23	...	...	23	...	...		
	Kandamur	...	1,520	...	...	1,520	...	...		
	Kakutur	...	480	...	...	480	...	...		
	Dontali	...	1,280	...	...	1,280	...	...		

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANS- FERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equiva- lent in square miles.			Acres.	Equiva- lent in square miles.		
CENTRAL CIRCLE—cont.										
Cudda- pah— cont.	Rāyachōti.	Madhaveram	...	...	4,681	...	4,681	...	No. 335 of 22nd July 1892.	
	Madana- palle.	Potapola	...	...	264	...	264	...	No. 352 of 1st Aug. 1892.	
		Pentesupadu	...	...	2,870	...	2,870	...	No. 396 of 22nd Aug. 1892.	
	Kadiri	Niggadi	...	...	27,770	...	27,770	...	No. 418 of 24th Aug. 1892.	
	Madana- palle.	Avalakonda	...	...	7,700	...	7,700	...	No. 419 of 24th Aug. 1892.	
	Proddatur.	Yamavaram	...	...	1,600	...	1,600	...	No. 434 of 5th Sept. 1892.	
	Vayalpad.	Bhakarapet	...	...	10,600	...	10,600	...	No. 474 of 5th Oct. 1892.	
		Talakonda	...	...	18,900	...	18,900	...	No. 498 of 14th Oct. 1892.	
	Sidhout	Vontimitta	...	...	4,500	...	4,500	...	No. 509 of 2nd Nov. 1892.	
	Vayalpad and Ma- danapalle.	Nurukuppalakonda.	...	...	8,461	...	8,461	...	No. 511 of 1st Nov. 1892.	
		Tavalam	...	...	8,450	...	8,450	...	No. 513 of 2nd Nov. 1892.	
	Madana- palle.	Dorigalla	...	...	24,032	...	24,032	...	No. 514 of 31st Oct. 1892.	
	Pulivendla and Ka- diri.	Gorivikanama	...	...	30,560	...	30,560	...	No. 518 of 7th Nov. 1892.	
		Kondasunkeria	...	...	2,612	...	2,612	...	No. 523 of 7th Nov. 1892.	
	Proddatur.	Horsleykonda Mudi- madugu.	...	...	15,500	...	15,500	...	No. 574 of 28th Nov. 1892.	
	Madana- palle.	Urakonda	...	...	7,986	...	7,986	...	No. 576 of 28th Nov. 1892.	
	Vayalpad.	Gonumakulapalli	...	...	1,280	...	1,280	...	No. 578 of 28th Nov. 1892.	
	Cuddapah.	Somarazumala East.	...	...	910	...	910	...	No. 579 of 28th Nov. 1892.	
	Proddatur.	Kosinapalle	...	...	4,300	...	4,300	...	No. 591 of 12th Dec. 1892.	
	Sidhout, Badvel and Cuddapah.	Lankamalais	...	...	6,9760	...	6,9760	...	No. 594 of 6th Dec. 1892.	
		Malamidekambala- dinne.	...	...	2,120	...	2,120	...	No. 598 of 7th Dec. 1892.	
	Proddatur.	Kothur	...	...	12,160	...	12,160	...	No. 599 of 12th Dec. 1892.	
	Rājampēt and Sid- hout.	Tummalur	...	...	1,450	...	1,450	...	No. 600 of 12th Dec. 1892.	
	Cuddapah.	Tarigonda	...	...	6,831	...	6,831	...	No. 8 of 7th Dec. 1892.	
	Madana- palle and Vayalpad.	Tummalamala	...	...	8,210	...	8,210	...	No. 9 of 19th Dec. 1892.	
	Kadiri	Tsadukonda	...	...	15,023	...	15,023	...	No. 39 of 19th Jan. 1893.	
	Madana- palle.	Sorakayalapet	...	...	2,832	...	2,832	...	No. 111 of 23rd Feb. 1893.	
	Vayalpad.	Pennér	...	...	520	...	520	...	No. 132 of 6th March 1893.	
	Proddatur.	Konarazupalle	...	...	9,696	...	9,696	...	No. 140 of 17th March 1893.	
	Sidhout	Ramapuram	...	...	5,300	...	5,300	...	No. 141 of 17th March 1893.	
	Total			265,171	414.33	352,603	...	617,774	965.27	
Chingle- put.	Tiruvallūr.	Kumbakkam	14,951	...	...	...	14,951	...		
		Sethiavedu	6,859	...	...	...	6,859	...		
		Ambakkam	5,259	...	...	...	5,259	...		
		Aradur	2,680	...	...	...	2,680	...		
		Kadur	2,494	...	...	...	2,494	...		

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
CENTRAL CIRCLE—cont.										
Chingleput—cont.	Tiruvallūr.	Ugumudi	2,874	...	...	...	2,874	...	...	
		Alitkuli	5,649	...	...	...	5,649	...	...	
		Nagulapuram	8,345	...	...	...	8,345	...	...	
		Palavakkam	2,511	...	...	...	2,511	...	...	
		Pulrumbakkam	577	...	...	...	577	...	...	
		Mylapore	990	...	...	...	990	...	...	
		Vembadu	1,075	...	...	...	1,075	...	...	
		Alamadi	1,263	...	...	...	1,263	...	...	
		Vengathur	312	...	...	...	312	...	...	
		Tirukkalkunram	697	...	...	...	697	...	...	
		Oragadam	540	...	...	...	540	...	...	
		Madayathur	697	...	...	...	697	...	...	
		Vallam	1,328	...	...	...	1,328	...	...	
		Nemali	633	...	...	...	633	...	...	
		Anjur	1,514	...	...	...	1,514	...	...	
		Alapakkam, A and B.	486	...	...	...	486	...	...	
		Tirumani	639	...	...	...	639	...	...	
		Vandalur	3,207	...	...	...	3,207	...	...	
		Senkunram	1,232	...	...	...	1,232	...	...	
		Kolathur alias Appur	1,449	...	...	...	1,449	...	...	
		Venkatapuram	119	...	...	...	119	...	...	
		Tiruteri	272	...	...	...	272	...	...	
		Paranur	378	...	...	...	378	...	...	
		Kotankolattur	535	...	...	...	535	...	...	
		Kavanur	569	...	...	...	569	...	...	
		Siruvanjur	465	...	...	...	465	...	...	
		Orathur	312	...	...	...	312	...	...	
Chingleput—cont.	Chingleput.	Vattambakam	694	...	...	...	694	...	...	
		Vadakupattu	795	...	...	...	795	...	...	
		Kutrambakam, A	126	...	...	...	126	...	...	
		Do. B.	205	...	...	...	205	...	...	
		Paduppur	375	...	...	...	375	...	...	
		Manmar	670	...	...	...	670	...	...	
		Nallur	937	...	...	...	937	...	...	
		Maganiam	946	...	...	...	946	...	...	
		Kalvayi	138	...	...	...	138	...	...	
		Kolathur	1,009	...	...	...	1,009	...	...	
		Kayur	642	...	...	...	642	...	...	
		Taiyur	1,084	...	...	...	1,084	...	...	
		Sonallur	1,107	...	...	...	1,107	...	...	
		Usamanjeri	750	...	...	...	750	...	...	
		Kumili	690	...	...	...	690	...	...	
		Kottur	2,960	...	...	...	2,960	...	...	
		Alathur	488	...	...	...	488	...	...	
		Ilalur	692	...	...	...	692	...	...	
		Sirukunram, A	369	...	...	...	369	...	...	
		Do. B	378	...	...	...	378	...	...	
		Hanumantaputteri...	286	...	...	...	286	...	...	
		Tandrai	664	...	...	...	664	...	...	
		Pulikaradu	176	...	...	...	176	...	...	
		Tambaram	262	...	...	...	262	...	...	
		Kadapperi	227	...	...	...	227	...	...	
		Selaiyur	498	...	...	...	498	...	...	
		Maduraiyakkam	351	...	...	...	351	...	...	
		Nannangalam	328	...	...	...	328	...	...	
		Erumaiyur	192	...	...	...	192	...	...	
		Arasankalnai	185	...	...	...	185	...	...	
Chingleput—cont.	Saidapet.	Perumbakkam, A	636	...	...	...	636	...	...	
		Do. B	117	...	...	...	117	...	...	
		Maiyur	534	...	...	...	534	...	...	
		Kovilpittagai	377	...	...	...	377	...	...	
		Sikkarayapuram	93	...	...	...	93	...	...	
		Kuttambakam	300	...	...	...	300	...	...	
		Mittamalai	267	...	...	...	267	...	...	
		Tirumalavayal	386	...	...	...	386	...	...	
		Nandambakkam	259	...	...	...	259	...	...	
		Tirusulam	260	...	...	...	260	...	...	
		Budur	...	...	86	...	86	...	...	
		Kuvukolli	...	...	228	...	228	...	...	No. 92 of 9th Feb. 1893.
		Nelvoyi	...	...	161	...	161	...	...	No. 84 of 6th Feb. 1893.
									...	No. 84 of 16th Jan. 1893.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANS- FERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equiva- lent in square miles.			Acres.	Equiva- lent in square miles.			
CENTRAL CIRCLE— <i>cont.</i>											
Chingle- put— <i>cont.</i>	Tiruvallūr — <i>cont.</i>	Kolathur	...	...	212	...	212	...	No. 87 of 9th Feb. 1893.		
		Nayapakkam, B.	...	...	163	...	163	...	No. 86 of 9th Feb. 1893.		
		Do. C.	...	...	105	...	105	...	No. 94 of 9th Feb. 1893.		
		Attantangal	...	...	268	...	268	...	No. 109 of 24th Feb. 1893.		
		Kavalur	...	...	230	...	230	...	No. 85 of 6th Feb. 1893.		
		Kurivithitoo	...	...	300	...	300	...	No. 112 of 24th Feb. 1893.		
	Chingleput.	Peria Obalapuram	...	...	66	...	66	...	No. 90 of 9th Feb. 1893.		
		Siruvallipettai, B.	...	...	54	...	54	...	No. 98 of 6th Feb. 1893.		
		Mambakuram	...	...	726	...	726	...	No. 89 of 9th Feb. 1893.		
		Gudalur	...	...	2,744	...	2,744	...	No. 441 of 7th Sep. 1892.		
		Total	93,604	146.26	5,343	...	98,947	154.60			
		North Arcot.	Chittoor.	Paradarami	15,043	...	...	...	15,043	...	
	Pachigunta			1,800	...	...	...	1,800	...		
	Kinatipalli			1,417	...	...	...	1,417	...		
	Cheelapalli			1,296	...	...	...	1,296	...		
	Santhapet			2,096	...	...	...	2,096	...		
	Basavapalli, A and B.			1,937	...	...	...	1,937	...		
	Chittoor and Chan- dragiri.		Mahimandalam	2,516	...	...	...	2,516	...		
			Penamur	2,097	...	...	...	2,097	...		
			Napier Reserve	8,772	...	...	...	8,772	...		
Mamundur			1,776	...	...	...	1,776	...			
Chandra- giri.	Chamala		9,600	...	...	...	9,600	...			
	Panspauk		6,400	...	...	...	6,400	...			
	Pudichala Bail		2,560	...	...	...	2,560	...			
	Gazulamandiem		250	...	...	...	250	...			
	Mamundur Extension	8,000	...	...	...	8,000	...				
	Tirupati Hill	16,000	...	...	...	16,000	...				
Palmanér.	Musalimadugu	9,600	...	...	...	9,600	...				
	Basavreddipalle	10,240	...	...	...	10,240	...				
	Poddur	9,600	...	...	...	9,600	...				
	Palmanér Tope	2	...	...	...	2	...				
	Nagamangalam	31	...	...	...	31	...				
	Peduguripallo	20	...	...	...	20	...				
Palmanér and Gudiyá- tam.	Venkatagirikota	4	...	...	...	4	...				
	Byreddipalle	4	...	...	...	4	...				
	Charagalla	18,911	...	...	...	18,911	...				
	Mordana	23,800	...	...	...	23,800	...				
	Naiakaneri	6,400	...	...	...	6,400	...				
	Ambur Drug	5,760	...	...	...	5,760	...				
Gudiyá- tam.	Tiruvallam Plantation	435	...	...	...	435	...				
	Virinjipuram do.	260	...	...	...	260	...				
	Cheyur Tope	130	...	...	...	130	...				
	Amundi Plantation.	160	...	...	...	160	...				
	Tandrayagunta Tope.	2	...	...	...	2	...				
	Vikramasi	161	...	...	...	161	...				
Vellore.	Naiakaneri Extension	1,280	...	...	...	1,280	...				
	Ambur Fuel Coupe.	3,840	...	...	...	3,840	...				
	Palamadi	6,400	...	...	...	6,400	...				
	Ambur Tope	5	...	...	...	5	...				
	Carnatic Ghur	7,069	...	...	...	7,069	...				
	Ammerdi Plantation.	25	...	...	...	25	...				
Polar	Puthur	12,800	...	...	...	12,800	...				
	Kappalur	1,114	...	...	...	1,114	...				
	Pattakad	12,800	...	...	...	12,800	...				
	Virappanur	64,000	...	...	...	64,000	...				
	Kelur	2,886	...	...	...	2,886	...				
	Malayalam	11,462	...	...	...	11,462	...				

Area of Reserved Forests, 1892-93—*cont.*

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
CENTRAL CIRCLE—cont.										
North Arcot—cont.	Vellore and Polur.	Thellai	15,121				15,121			
	Aroor	Punganur	3,743				3,743			
		Kilminnel Plantation.	150				150			
		Sennaleri	1,675				1,675			
		Sattur	709				709			
		Tandapantangal	1,092				1,092			
		Enadavadi	1,565				1,565			
	Walajapet.	Vannivedu Plantation.	30				30			
		Arkonam Sub-Magistrate's Office compound.	5				5			
		Arkonam Tope	37				37			
		Gudalur	535				535			
		Anantapuram or Uriyur.	540				540			
		Ammanur	203				203			
	Wandiwash.	Bannavaram	1,051				1,051			
		Brammakateri	635				635			
		Kodiyalam	125				125			
		Badur	783				783			
		Vengannam	1,288				1,288			
		Nambodu	707				707			
	Chittoor.	Vishamangalam	1,148				1,148			
		Chittapara			4,250		4,250			No. 119 of 18th March 1892.
		Virisettipalle, A			5,464		5,464			No. 295 of 21st June 1892.
		Do. B			1,823		1,823			No. 301 of 21st June 1892.
		Irala			16,122		16,122			No. 22 of 10th Jan. 1893.
		Bommasamudram			1,242		1,242			No. 567 of 13th Dec. 1892.
		Vaviljota			2,495		2,495			No. 196th of 2nd Jan. 1893.
		Tavanampalle			2,060		2,060			No. 597 of 13th Dec. 1892.
		Patalapattu			2,917		2,917			No. 106 of 24th Feb. 1893.
		Palmanur	Pednaigdrug			12,760		12,760		No. 524 of 8th Nov. 1892.
		Gudiyattam.	Pallalakuppam			6,212		6,212			No. 108 of 20th Feb. 1893.
Paradarami Extension.					1,900		1,900			No. 139 of 4th April 1892.
Synagunta				6,400		6,400			No. 445 of 13th Sept. 1892.	
Mordana Extension.				9,598		9,598			No. 296 of 22nd June 1892.	
Vellore	Pansmadugu			9,340		9,340			No. 91 of 29th Feb. 1892.	
	Attiyur			4,808		4,808			No. 238 of 16th May 1892.	
Poluru	Aliyulamangalam			10,027		10,027			No. 310 of 22nd June 1892.	
Aroor	Solavaram			1,143		1,143			No. 118 of 27th Feb. 1892.	
	Walajah	Kolathur			1,729		1,729			No. 89 of 5th March 1892.
Ammur				5,982		5,982			No. 311 of 22nd June 1892.	
Wandiwash.	Ponnur			769		769			No. 327 of 22nd June 1892.	
	Nedungal			3,580		3,580			No. 512 of 1st Nov. 1892.	
	Nedunganam			1,697		1,697			No. 78 of 23rd Feb. 1892.	
Total			328,283	512.94	112,318		440,601	688.44		

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
CENTRAL CIRCLE—cont.										
South Arcot.	No. I, Tiruvannamalai.	Annamalai	2,640	...	...	...	2,640	...	...	
		Chinnasamudram	3,769	...	...	...	3,769	...	...	
		Mudennai	6,464	...	...	...	6,464	...	...	
		Perungolatur Swami-malai.	9,312	...	...	...	9,312	...	...	
		Anandavadi	8,672	...	...	...	8,672	...	...	
		Kavuttumalai	10,032	...	...	...	10,032	...	...	
		Tippakadu	4,442	...	...	...	4,442	...	...	
		Suruvadi	4,608	...	...	...	4,608	...	...	
		Muttakadu	4,053	...	...	...	4,053	...	...	
		Karai	1,697	...	...	...	1,697	...	...	
	No. II, Tindivanam.	Agaram	600	...	...	...	600	...	...	
		Merkanam	80	...	...	...	80	...	...	
		Kurumbaram, 2nd Bit.	192	...	...	...	192	...	...	
		Kumalamatti	1,201	...	...	...	1,201	...	...	
		Sevar	1,200	...	...	...	1,200	...	...	
		Panchalam	1,120	...	...	...	1,120	...	...	
		Venmaniattur	436	...	...	...	436	...	...	
		Peradikuppam	729	...	...	...	729	...	...	
		Akkur	1,350	...	...	...	1,350	...	...	
		Saram	243	...	...	...	243	...	...	
	No. III, Villupuram.	Sulavadi	64	...	...	...	64	...	...	
		Jakkampettai	300	...	...	...	300	...	...	
		Adikuppam	150	...	...	...	150	...	...	
		Akshikadu	450	...	...	...	450	...	...	
		Gangavaram	13,276	...	...	...	13,276	...	...	
		Nabob's Tope	67	...	...	2	65	...	No. 35 of 11th Jan. 1893.	Disafforested.
		Vakkur	384	...	...	...	384	...	...	
		Vikravandi	256	...	...	...	256	...	...	
		Satanur, 1st Bit	204	...	...	...	204	...	...	
		Narasanganur	429	...	...	...	428	...	...	
	No. IV, Cuddalore.	Gundalapuliur	940	...	...	...	940	...	...	
		Karanai	128	...	...	...	128	...	...	
		Adanur	1,491	...	...	...	1,491	...	...	
		Ariyalur	1,036	...	...	...	1,036	...	...	
		Valudareddi	260	...	...	...	260	...	...	
		Molkondai	480	...	...	...	480	...	...	
		Sattanur, 2nd Bit	320	...	...	...	320	...	...	
		Turinjikadu	853	...	...	...	853	...	...	
		Vellakarai	1,568	...	...	...	1,568	...	...	
		Valudalamattu	908	...	...	...	908	...	...	
No. V, Tirukkoilur.	Sammattikuppam	364	...	...	...	364	...	...		
	Marungur	224	...	...	...	224	...	...		
	Vegakottai	480	...	...	...	480	...	...		
	Vedakotta	3,084	...	...	...	3,084	...	...		
	Valudayampattu	1,536	...	...	...	1,536	...	...		
	Kangiruppu, 1st Bit.	2,956	...	...	...	2,956	...	...		
	Velankuppam	1,094	...	...	...	1,094	...	...		
	Shonankuppam	140	...	...	...	140	...	...		
	Fort St. David	44	...	...	...	44	...	...		
	Talankoda	217	...	...	...	217	...	...		
No. I, Tiruvannamalai.	Sillambanadampettai	780	...	...	...	780	...	...		
	Nochikadu	640	...	...	...	640	...	...		
	Peramattur	1,036	...	...	...	1,036	...	...		
	Kangiruppu, 2nd Bit.	2,519	...	...	...	2,519	...	...		
	Velur	1,670	...	...	...	1,670	...	...		
	Kuttadi	1,700	...	...	...	1,700	...	...		
	No. II, Tindivanam.	Tennalai	50,428	...	...	...	50,428	...	No. 323 of 12th July 1892.	
		Pelamarudur	9,148	...	...	...	9,148	...	No. 324 of 12th July 1892.	
		Madattupattu	6,748	...	...	...	6,748	...		
	No. III, Tiruvannamalai.	Kurumpuram, 1st Bit	500	...	...	...	500	...	No. 107 of 11th Mar. 1892.	

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	Area on 1st April 1892.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
CENTRAL CIRCLE—cont.											
South Arcot—cont.	No. III, Villupuram.	Panampattu	...	...	600	...	600	...	No. 205 of 11th May 1892.		
		Kappiyampaliyur	...	...	660	...	660	...	No. 381 of 13th Aug. 1892.		
		Gangarampalaiyam.	...	...	435	...	435	...	No. 520 of 8th Nov. 1892.		
		Pulanjimalai	...	...	600	...	600	...	No. 589 of 12th Dec. 1892.		
	No. IV, Cuddalore.	Ramapuram	...	...	1,730	...	1,730	...	No. 346 of 1st Aug. 1892.		
		Doni Durai	...	...	100	...	100	...	No. 516 of 8th Nov. 1892.		
	No. IV, Chidambaram.	Killai	...	...	1,160	...	1,160	...	No. 447 of 13th Sept. 1892.		
		Periyapattu	...	...	1,130	...	1,130	...	No. 475 of 5th Oct. 1892.		
		Wallajah	...	...	2,770	...	2,770	...	No. 580 of 28th Nov. 1892.		
		Pichavaram	...	...	2,489	...	2,489	...	No. 32 of 16th Jan. 1893.		
	No. V, Tirukoilur.	Pandur	...	...	955	...	955	...	No. 106 of 11th March 1892.		
		Adukkam	...	...	2,000	...	2,000	...	No. 131 of 21st March 1892.		
		Nattamur, 2nd Bit.	...	...	3,800	...	3,800	...	No. 133 of 22nd March 1892.		
		Do. 1st Bit.	...	...	4,500	...	4,500	...	No. 140 of 8th April 1892.		
		Swamimalai, 2nd Bit	...	...	5,330	...	5,330	...	No. 185 of 6th May 1892.		
		Edakkal	...	...	3,390	...	3,390	...	No. 211 of 10th May 1892.		
		Perichanur	...	...	650	...	650	...	No. 234 of 26th May 1892.		
		Sirupakkam	...	...	1,080	...	1,080	...	No. 256 of 10th June 1892.		
		Sidevi	...	...	2,800	...	2,800	...	No. 534 of 16th Dec. 1892.		
		Nayanur	...	...	1,800	...	1,800	...	No. 561 of 25th Nov. 1892.		
		Attipakkam	...	...	4,500	...	4,500	...	No. 11 of 13th Dec. 1892.		
		Alwaramalai	...	...	8,800	...	8,800	...	No. 120 of 27th Feb. 1893.		
		No. VI, Kallakurichi.	Kuzai	...	...	2,220	...	2,220	...	No. 260 of 10th June 1892.	
			Kottalamalai	...	...	2,880	...	2,880	...	No. 293 of 22nd June 1892.	
			Mullapuram	...	...	1,025	...	1,025	...	No. 263 of 10th June 1892.	
	Rangappanur		...	...	2,200	...	2,200	...	No. 444 of 12th Sept. 1892.		
	No. VII, Vriddhachalam.	Kuppanattam	...	...	840	...	840	...	No. 431 of 7th Sept. 1892.		
Narasingamangalam.		...	...	835	...	835	...	No. 435 of 7th Sept. 1892.			
Nangur		...	...	1,625	...	1,625	...	No. 455 of 23rd Sept. 1892.			
Kattumylur		...	...	1,587	...	1,587	...	No. 460 of 23rd Sept. 1892.			
Parur		...	...	2,660	...	2,660	...	No. 563 of 28th Nov. 1892.			
Kottanur		...	...	3,880	...	3,880	...	No. 596 of 12th Dec. 1892.			
Veppur		...	...	3,800	...	3,800	...	No. 104 of 13th Feb. 1892.			
Total			104,937	163.96	141,655	2	246,590	385.30			

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks	
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
CENTRAL CIRCLE—cont.											
Tanjore.	Southern Range.	Block No. 2, Maltotam, Eastern Block.	10	...	...	...	10	...	...		
		Block No. 3, Maltotam, Western Block.	8	...	...	...	8	...	...		
		Manakadu	120	...	...	...	120	...	...		
		Talanayar	2,000	...	...	...	2,000	...	...		
		Tillavilagam	320	...	...	...	320	...	...		
		Nadur, No. 2	200	...	...	...	200	...	...		
		Thatchankurichi	320	...	...	...	320	...	...		
		Verlipatti, North Block.	145	...	...	...	145	...	...		
		Verlipatti, South Block.	234	...	...	...	234	...	...		
		Kallupatti	85	...	...	...	85	...	...		
	Northern Range.	Kollangarai	458	...	...	...	458	...	...		
		Puttur, No. I	191	...	...	...	191	...	...		
		Nadur, No. I	1,000	...	...	...	1,000	...	...		
		Puttur, No. II	119	...	...	...	119	...	...		
	Southern Range.	Northern Casuarina.	350	...	...	...	350	...	...		
		Southern do.	250	...	...	...	250	...	...		
		Neidavasal	42	...	...	...	42	...	...		
	Southern Range.	Elantope	17	...	...	...	17	...	...		
		Kodiyakadu	...	...	4,204	...	4,204	...	No. 188 of 4th May 1892.		
	Southern Range.	Edangankottai	...	...	194	...	194	...	No. 51 of 27th Jan. 1892.		
Total		5,869	9.17	4,398	...	10,267	16.04				
Trichinopoly.	Trichinopoly.	Tuvakudi	1,438	...	...	...	1,438	...	...		
		Elamanur	117	...	...	...	117	...	...		
		Pettavotilai	137	...	...	...	137	...	...		
		Kulitalai	77	...	...	...	77	...	...		
		Manatattai	45	...	...	...	45	...	...		
		Lalapet	268	...	...	...	268	...	...		
		Sittalavoi	160	...	...	...	160	...	...		
		Kattalai	75	...	...	...	75	...	...		
		Taimimalai	464	...	...	...	464	...	...		
		Minnakaradu	98	...	...	...	98	...	...		
	Kulitalai.	Panjantangi	1,543	...	...	...	1,543	...	...		
		Viramalai Hills	5,472	...	...	...	5,472	...	...		
		Poyyapetti do.	639	...	...	...	639	...	...		
		No. I, Shenmalai	2,477	...	...	...	2,477	...	...		
		Pakkiri Karadu	65	...	...	...	65	...	...		
		Puttanatham Range comprising Karumalai, Palamalai and Nedumalai.	705	...	...	...	705	...	...		
		Surpam Range	1,403	...	...	...	1,403	...	...		
		Mathalamalai	465	...	...	...	465	...	...		
		Maradur	180	...	...	...	180	...	...		
		Mayanur	50	...	...	...	50	...	...		
Trichinopoly.	Kulitalai.	No. II, Shenmalai	1,593	...	...	...	1,593	...	...		
		Sigan Karadu	714	...	...	...	714	...	...		
		Panjantangi Hill Valley	286	...	...	...	286	...	...		
		Sengattupatti	3,000	...	...	...	3,000	...	...		
		Melur	3,000	...	...	...	3,000	...	...		
		Kalamankoil Tittu	1,500	...	...	...	1,500	...	...		
		Karappankadu do.	2,000	...	...	...	2,000	...	...		
		Kanapadi Kannimar Solai.	2,560	...	...	...	2,560	...	...		
		Kanapadi Thenparanad.	12,021	...	...	...	12,021	...	...		
		Palamalai	10,000	...	...	...	10,000	...	...		
	Musiri.	Manalodai	4,000	...	...	...	4,000	...	...		
		Solamattai	7,000	...	...	...	7,000	...	...		
		Selaiyur	1,800	...	...	...	1,800	...	...		
		Puliyur	10,000	...	...	...	10,000	...	...		
		Semmalai	5,000	...	...	...	5,000	...	...		
		Sengattur	10,000	...	...	...	10,000	...	...		
		Perambur.			...	...	...		...	...	
					...	...	...		...	...	

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANS- FERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equiva- lent in square miles.	Acres.	Acres.	Acres.	Equiva- lent in square miles.		
CENTRAL CIRCLE—cont.										
Trichinopoly cont.	Udaiyār- pālaiyam.	Adanakurichi	250	...	...	...	250	...	...	
		Malangan Kudiyirappu	150	...	...	...	150	...	...	
		Tenuamanallur	10	...	...	...	10	...	...	
		Velakkurichi	48	...	...	...	48	...	...	
		Sittidaiyar	53	...	...	...	53	...	...	
		Pasikkulam	100	...	...	...	100	...	...	
		Periakkurichchi	147	...	...	...	147	...	...	
		Sattambadi	1,000	...	...	...	1,000	...	...	
		Kolamanikkam	236	...	...	...	236	...	...	
		Vettiyarpattu, Nos. I and II.	620	...	...	...	620	...	...	
	Kulitalai	Aramanaikkurichchi.	91	...	...	...	91	...	...	
		Sundaresvarapuram.	150	...	...	...	150	...	...	
		Ambappur	200	...	...	...	200	...	...	
		Uthiyakkudi	196	...	...	...	196	...	...	
		Alavayi	300	...	...	...	300	...	...	
		Annangarpettai	57	...	...	...	57	...	...	
		Mudukkalam	1,197	...	...	...	1,197	...	...	
		Periavalayam	985	...	...	...	985	...	...	
		Vilangudi	900	...	...	...	900	...	...	
		Ayyur	1,400	...	...	...	1,400	...	...	
	Musiri	Vannippanakurichchi.	190	...	...	...	190	...	...	
		Sripurandan, Bit No. I.	457	...	...	...	457	...	...	
		Kovilur	700	...	...	...	700	...	...	
		Jayankondasholapu- ram, No. I.	150	...	...	...	150	...	...	
		Jayankondasholapu- ram, No. II.	290	...	...	...	290	...	...	
		Kangudi	800	...	...	...	800	...	...	
		Vena Nallur	197	...	...	...	197	...	...	
		Tirakkonam	650	...	...	...	650	...	...	
		Koddukkur	92	...	...	...	92	...	...	
		Kulamur	200	...	...	...	200	...	...	
	Udaiyār- pālaiyam.	Karuppur Reddiya- patti.	...	...	3,600	...	3,600	...	No. 171 of 27th April 1892.	
		Vannad Kanapadi	...	...	10,000	...	10,000	...	No. 45 of 19th Jan. 1892.	
Manmalai		...	...	6,000	...	6,000	...	No. 184 of 4th May 1892.		
Karaipakkam		...	...	83	...	83	...	No. 122 of 18th Mar. 1892.		
Tiruvenganur		...	...	136	...	136	...	No. 118 of 18th Mar. 1892.		
Salem	Sattambadi	...	...	179	...	179	...	No. 123 of 18th Mar. 1893.		
								No. 401 of 19th Aug. 1892.		
	Total	101,963	159.33	19,998	...	121,966	190.67			
	Bodamalai	5,600	...	...	...	5,600	...	...		
	Pillapadi	4,992	...	...	...	4,992	...	...		
	Atur Ghât	3,142	...	...	...	3,142	...	...		
	Mallapuram Ghât	2,285	...	...	...	2,285	...	...		
	Nartanchedu	2,400	...	...	...	2,400	...	...		
	Vaniyar	4,512	...	...	...	4,512	...	...		
	Kutar	3,795	...	...	...	3,795	...	...		
Salem	Manjavadi Ghât	8,461	...	...	...	8,461	...	...		
	Mallapuram' Ghât Extension.	640	...	...	...	640	...	...		
	Ajjampati	1,920	...	...	...	1,920	...	...		
	Nartanchedu Exten- sion.	1,088	...	...	...	1,088	...	...		
	Yerimalai	3,520	...	...	...	3,520	...	...		
	Kannavoipudur	3,200	...	...	...	3,200	...	...		
	Lokur	5,312	...	...	...	5,312	...	...		
	Pillapalli Kombai, New.	2,080	...	...	...	2,080	...	...		
	Atur Ghât Extension.	544	...	...	...	544	...	...		
	Kanjeri, New	4,032	...	...	...	4,032	...	...		
Parnikaradu	4,832	...	...	...	4,832	...	...			
Mallapuram	589	...	...	...	589	...	...			

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANS- FERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equiva- lent in square miles.			Acres.	Equiva- lent in square miles.		
CENTRAL CIRCLE--cont.										
Salem-- cont.	Salem-- cont.	Karuvattuparai	1,800	...	...	...	1,800	...	...	
		Gundakal	4,000	...	...	...	4,000	...	...	
		Vanavasi	9,000	...	...	...	9,000	...	...	
		Manakonda	5,500	...	...	...	5,500	...	...	
		Poliyanakidai	1,000	...	...	...	1,000	...	...	
		Mattikottaij	3,500	...	...	...	3,500	...	...	
		Punjamadevi	2,500	...	...	...	2,500	...	...	
		Godumalai	7,000	...	...	...	7,000	...	...	
		Jallutur	12,000	...	...	...	12,000	...	...	
		Kanjamalai	4,500	...	...	...	4,500	...	...	
	Atur.	Mary Land	400	...	...	...	400	...	...	
		Varagur	2,675	...	...	...	2,675	...	...	
		Nayakonkombai	2,880	...	...	...	2,880	...	...	
		Bylur	6,880	...	...	...	6,880	...	...	
	Atur and Námakkal.	Nagur	3,757	...	...	...	3,757	...	...	
		Karavallikombai	8,755	...	...	...	8,755	...	...	
	Námakkal.	Jambuttu	2,617	...	...	...	2,617	...	...	
		Puliyanshola	5,530	...	...	...	5,530	...	...	
		8,000	...	...	...	8,000	...	...		
		Pallipatti	7,757	...	...	...	7,757	...	...	
		Thambakal	3,917	...	...	...	3,917	...	...	
		Chitteri	6,880	...	...	...	6,880	...	...	
		Chittilingi	8,960	...	...	...	8,960	...	...	
		Kottapatti	8,960	...	...	...	4,672	...	...	
		Puvampatti	4,672	...	...	...	9,216	...	...	
		Ammapalayam	9,216	...	...	...	2,624	...	...	
	Uttan- karai.	Singarapet	2,624	...	...	...	400	...	...	
		Mallapuram Extension.	400	...	...	...	6,080	...	...	
		Mangalam	6,080	...	...	...	2,560	...	...	
		Nagallutur	2,560	...	...	...	9,370	...	...	
		Mambakam	9,370	...	...	...	7,834	...	...	
		Pungolam	7,834	...	...	...	2,048	...	...	
		Mudukaddappu	2,048	...	...	...	1,216	...	...	
		Jalarpet	1,216	...	...	...	2,048	...	...	
		Narasingapuram	2,048	...	...	...	2,016	...	...	
		Kolarpatti	2,016	...	...	...	11,520	...	...	
Tiruppat- túr & Kriah- nagiri.	Alangayam	11,520	...	...	...	7,398	...	...		
	Singarapet Extension.	7,398	...	...	...	3,840	...	...		
Hosúr	Kotur	3,840	...	...	...	5,952	...	...		
	Ayyur	5,952	...	...	...	5,824	...	...		
	Marambhallo	5,824	...	...	...	7,942	...	...		
	Gulhatti, New	7,942	...	...	...	5,632	...	...		
	Manchi, New	5,632	...	...	...	6,016	...	...		
	Jowlagiri	6,016	...	...	...	6,368	...	...		
	Talle	6,368	...	...	...	3,200	...	...		
	Naganur	3,200	...	...	...	2,816	...	...		
	Denkanikota	2,816	...	...	...	8,832	...	...		
	Toluvabetta	8,832	...	...	...	10,880	...	...		
Dharma- puri.	Anchetti	10,880	...	...	...	14,272	...	...		
	Natrapalayam	14,272	...	...	...	11,616	...	...		
	Biligundla	11,616	...	...	...	11,136	...	...		
	Kestur	11,136	...	...	...	8,928	...	...		
	Bilikal	8,928	...	...	...	10,432	...	...		
	Mallehalli	10,432	...	...	...	10,304	...	...		
	Taggatti	10,304	...	...	...	16,840	...	...		
	Pennagaram	16,840	...	...	...	11,500	...	...		
	Morappur	11,500	...	...	...	9,600	...	...		
	Bianurmalai	9,600	...	...	...	12,000	...	...		
Hosúr and Dharma- puri.	Masakal	12,000	...	...	...	17,152	...	...		
	Perumbelaimalai	17,152	...	...	...	15,776	...	...		
Kriahna- giri.	Wooddappatti	15,776	...	...	...	1,920	...	...		
	Gutirayen	1,920	...	...	...	900	...	...		
	Burgur, New	900	...	...	...	4,500	...	...		
	Togarepalli	4,500	...	...	...	900	...	...		
Warcchen- gód.	Pakkand	900	...	...	...	4,500	...	...		
	Suriyamalai	4,500	...	...	...	4,650	...	...		

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
CENTRAL CIRCLE—cont.										
Salem—cont.	Krishnagiri.	Neralkotta	...	...	7,140	...	7,140	...	No. 30 of 16th Jan. 1893.	
		Ramaswanimalai	...	...	3,000	...	3,000	...	No. 404 of 18th Aug. 1892.	
		Arasankad	...	...	2,500	...	2,500	...	No. 92 of 29th Feb. 1892.	
		Kappathu	...	...	3,500	...	3,500	...	No. 510 of 2nd Nov. 1892.	
		Puduppatti	...	...	7,500	...	7,500	...	No. 90 of 5th Mar. 1892.	
	Dharma-puri.	Sanyasimalai	...	...	539	...	539	...	No. 54 of 27th Jan. 1892.	
		Thoppur	...	...	7,000	...	7,000	...	No. 121 of 15th Mar. 1892.	
		Kesavaguli	...	...	6,400	...	6,400	...	No. 300 of 22nd June 1892.	
		Picklymalai	...	...	6,400	...	6,400	...	No. 261 of 30th May 1892.	
		Barhanavadi	...	...	27,000	...	27,000	...	No. 398 of 22nd Aug. 1892.	
	Salem	Kudimadu	...	...	4,307	...	4,307	...	No. 366 of 3rd Aug. 1892.	
		Atur	Varagur Extension	...	...	486	...	486	...	No. 254 of 1st June 1892.
	Uttan-karai.	Thombakal Extension	...	...	3,840	...	3,840	...	No. 265 of 30th May 1892.	
		Nochikuttai	...	...	7,917	...	7,917	...	No. 397 of 22nd Aug. 1892.	
		Kalnad	...	...	4,320	...	4,320	...	No. 202 of 10th May 1892.	
		Chitteri Extension	...	...	2,880	...	2,880	...	No. 255 of 1st June 1892.	
		Veppampatti	...	...	8,640	...	8,640	...	No. 242 of 26th May 1892.	
	Uttan-karai and Tirapattur.	Thiruchemalai	...	...	11,046	...	11,046	...	No. 519 of 7th Nov. 1892.	
		Govindapuram	...	...	2,700	...	2,700	...	No. 402 of 22nd Aug. 1892.	
	Hosur	Galigattam	...	...	6,080	...	6,080	...	No. 279 of 13th June 1892.	
Kestur Extension		...	...	3,600	...	3,600	...	No. 280 of 13th June 1892.		
Thalli Extension		...	...	4,320	...	4,320	...	No. 547 of 25th Nov. 1892.		
Total			487,301	761.41	131,115	...	618,416	966.28		
Total of the Circle			1,555,257	2,430.09	817,140	2	2,372,395	3,706.87		
SOUTHERN CIRCLE.										
Madurai.	Cumbum Valley, East.	Cumbum Valley, East.	...	...	...	...	640	...	...	
		Block No. 1, Kuttinachiar.	640	...	...	...	5,760	...	...	
		Block No. 2, Surulipatti.	5,760	...	...	...	300	...	...	
		Block No. 3, Pandaratorai.	300	...	...	...	27,520	...	...	
		Block No. 4, Vannati-parai.	27,520	...	...	...	1,280	...	...	
	Cumbum Valley, West.	Block No. 5, Melagudalur.	1,280	...	...	...	3,616	...	...	
		Block No. 1, Suranganur.	3,616	...	...	...	2,560	...	...	
		Block No. 2, Matchakal.	2,560	...	...	...	256	...	...	
		Tambirankanal	256	...	...	...	3,789	...	...	
		Vikkramangalam	3,789	...	...	...	...	...	...	

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
SOUTHERN CIRCLE—cont.										
Madura—cont.	II or Kodakanal.	Palni Hills, Southern Slopes, West.								
		Block No. 1, Amburivi.	5,400				5,400			
		Block No. 2, Sengalvariar.	4,609				4,609			
		Block No. 3, Karungaldhoni medu.	1,920				1,920			
		Block No. 4, Pambar.	4,243				4,243			
		Block No. 5, Adukkam.	3,200				3,200			
		Murugamalai	6,572				6,572			
		Palni Hills, Southern Slopes, East.								
		Block No. 1, Marudandiar.	6,528				6,528			
		Block No. 2, Kadugattadi.	1,280				1,280			
	Block No. 3, Arunkanal.	1,920				1,920				
	Block No. 4, Arunkanalshola.	32				32				
	Block No. 5, Southern Slopes.	25,600				25,600				
	Block No. 6, Unjaloohi.	256				256				
	Tandigudi.	Varatharkanal	160				160			
		Irukkarkanal	100				100			
Pambukkalar		800				800				
Kokkuparai		320				320				
Palni Hills, Northern Slopes, East.										
Block No. 1, Siruvattukadu.		2,379				2,279				
Kodakanal.	Block No. 2, Northern Slopes.	12,800				12,800				
	Block No. 3, Venilai.	4,800				4,800				
	Block No. 4, Kanienkadu.	3,002				3,002				
	Block No. 5, Norohiakkad.	200				200				
	Block No. 6, Talaiarandarkovilkad.	90				30				
	Palni Hills, Northern Slopes, West.									
	Block No. 1, Pamburai Vilpatti Valley.	13,587				13,587				
	Block No. 2, Velankombai.	1,600				1,600				
	Block No. 3, Velankombai Plantation.	54				54				
	Block No. 4, Oliamathnadai.	3,200				3,200				
Kodakanal.	Block No. 5, Kukkal.	9,645				9,645				
	Block No. 6, Kudriyur.	10,061				10,061				
	Perumaimalai.									
	Block No. 1, Perumaimalai.									
Kodakanal.	Block No. 2, Thogavari Shola.	7,388				7,388				
	Block No. 3, Talaiarkadu.									
	Block No. 4, Kadamaravu.									

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
SOUTHERN CIRCLE--cont.										
Madura --cont.	Tandigudi.	Kallar.								
		Block No. 1, Kallar.	9,600	...	...	...	9,600	...	...	
		Block No. 2, Ariyannuttukanal.	64	...	...	...	64	...	...	
		Block No. 3, Kuman-govaimalaikad.	80	...	...	...	80	...	...	
		Lower Palni Sholas.								
		Block No. 1, Kadavu	64	...	...	...	64	...	...	
		Block No. 2, Petrukanal.	80	...	...	...	80	...	...	
		Upper Palni Sholas.								
		Block No. 1, Perumaimalai.								
		Block No. 2, Serrathankanal.								
		Block No. 3, Tiger Shola.								
	Kodaikanal.	Block No. 4, Kodai-kanal.								
		Block No. 5, Gundan and Manavan.								
		Block No. 6, Parappur.	2,316	...	...	...	2,316	...	...	
		Block No. 7, Pannitulum.								
		Block No. 8, Gundan.								
		Block No. 9, Sandanam.								
		Block No. 10, Fort Hamilton.								
		Block No. 11, Mariyan.								
		Upper Palni Plantation.								
		Block No. 1, Gundan Shola (a).								
		Block No. 2, Gundan Shola (b).								
	III or Kanavoi-patti.	Block No. 3, Pest Office.	288	...	47	...	335	...	No. 142 of 17th Mar. 1893.	
		Block No. 4, Poombarai.								
		Perumalai	9,600	...	...	...	9,600	...	...	
		Rudagudimalai	1,120	...	...	...	1,120	...	...	
		Poolamalai	800	...	...	...	800	...	...	
Kanavoi-patti.										
Block No. 1, Karandamalai.		22,077	...	...	...	22,077	...	...		
Block No. 2, Kuppuravallikutta.		845	...	...	...	845	...	...		
Block No. 3, Akkamakaradu.		301	...	...	...	301	...	...		
Block No. 4, Tenkal.		589	...	...	...	589	...	...		
Mudimalai		4,435	...	...	...	4,435	...	...		
Aiyalur.										
Block No. 1, Pilliyar-nattam.		5,485	...	...	...	5,485	...	...		
Block No. 2, Panjantangi.		7,423	...	...	...	7,423	...	...		
Block No. 3, Tannurkaradu.		936	...	...	...	936	...	...		
Block No. 4, Sundamalai.	410	...	...	...	410	...	...			

Area of Reserved Forests, 1892-93—cont.

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.			
SOUTHERN CIRCLE—cont.											
Madura—cont.	IV or Palamedu Range.	Sengattampatti	1,600	...	...	...	1,600	...	...		
		Kaduvakurichi	3,200	...	...	...	3,200	...	...		
		Sirumalai.									
		Block No. 1, Sirumalai	21,786	...	...	...	21,786	...	...		
		Block No. 2, Kachchakatti.	1,745	...	...	...	1,745	...	...		
		Alagar Hill.									
		Block No. 1, Alagar Hill.	16,838	...	...	...	16,838	...	...		
		Sembulimalai	1,600	...	...	...	1,600	...	...		
		Mottamalai	800	...	...	...	800	...	...		
		Waguttumalai	6,089	...	...	...	6,089	...	...		
	Cumbum Valley, East.										
	I. Cumbum.	VIII. Puvathukaradu	...	...	1,024	...	1,024	...	No. 148 of 20th Mar. 1893.		
		IX. Boothakaradu.	...	...	934	...	934	...	No. 603 of 12th Dec. 1892.		
	Cumbum Valley, West.										
	No. IV Palamedu.	III. Combai	...	...	3,840	...	3,840	...	No. 517 of 11th Nov. 1892.		
		II. Kiluvamalai	...	...	2,000	...	2,000	...	No. 46 of 22nd Jan. 1892.		
	Total			298,506	466.41	7,845	...	306,351	478.67		
	Nanguneri.	Reserve No. I	...	31,538	...	...	(a) 2,740	28,798	...		
			Tenk Tract	284	...	...	...	284	...		
			Block No. I, (a)	25,999	...	...	(a) 3,676	22,323	...		
Reserve No. II			91,008	...	...	(a) 23,476	67,532	...			
Mullimalai			157	...	...	...	157	...			
Ambesamudram.		Kaliyammankoilpara	309	...	...	...	309	...			
		Koviladpara	124	...	...	...	124	...			
		...	71	...	...	...	71	...			
		Block No. II, (a), (b)	53,819	...	...	(a) 31,093	22,726	...			
		K. Jundamamalai	1,540	...	...	...	1,540	...			
Tenkasi.	Reserve No. III	18,010	...	...	(a) 436	17,574	...				
	Okuninranpathai	85	...	...	...	85	...				
	Kavalkartiparambu.	374	...	...	...	374	...				
	Kottamalai	860	...	...	...	860	...				
	Nalankurichi	212	...	...	...	212	...				
Tinnevely.	Chinnakadu as defined in Mr. Baber's decision on claims of Inamdar.	...	2,560	...	...	(a) 1,172	1,388	...			
		Block III, a, b, c, d.	10,643	...	...	(a) 7,127	3,516	...			
	Sankaranayinar-koyil.	Reserve No. IV	19,738	...	...	(a) 3,700	16,038	...			
		Ohunnambuparambu	286	...	...	...	286	...			
		Block No. IV (a)	30,714	...	...	(a) 20,218	10,496	...			
		Seyamalai	294	...	...	...	294	...			
		Reserve No. V.	23,270	...	...	(a) 8,474	14,796	...			
	Srivilliputur.	Unipettimalai	580	...	(a) 20	...	550	...			
		Sappaniparambu	376	...	(a) 8	...	384	...			
		Pulpettarambu	51	...	...	...	51	...			
Martandamparai		135	...	...	...	135	...				
Kottamkulam		478	...	(a) 77	...	550	...				
Tinnevely.	Block V (a)	89,874	...	...	(a) 11,702	28,172	...				
	Vaiaikulamparambu.	1,120	...	(a) 25	...	1,145	...				
	Talaiyutu	890	...	...	...	890	...				
	Sivalaperi	213	...	...	...	213	...				
	Pannamparai	117	...	...	...	117	...				
Tenkarai.	Kaliyapur	158	...	...	...	158	...				
	Kottamadakkadu	1,279	...	...	...	1,279	...				
	Kongarayakurichi	60	...	...	...	60	...				
	Vallanad Hills	4,656	...	...	(b) 7	4,659	...				

(a) Due to India survey map measurements.

(b) Correction of area.

District.	Range.	Name of Forest.	AREA ON 1st APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.			Acres.	Acres.			Acres.	Equivalent in square miles.
SOUTHERN CIRCLE—cont.											
Tinnevely—cont.	Ottapidam.	Virusampatti	294	...	...	...	294	...	No. 309 of 21st June 1892.		
		Milavittan	709	...	...	709	...				
	Tenkarai	Kudiramoli Teri	...	...	13,393	...	13,393	...			
		Total	363,135	567.40	13,523	113,821	262,837	410.68			
North Coimbatore.	Satyaman-galam.	Gairmallam	520	...	...	...	520	...			
		Vellamundi	12,800	...	...	12,800	...				
	Talamalai.	Eastern slopes of Nilgiris.	60,800	...	...	60,800	...				
		Talamalai	121,600	...	...	121,600	...				
	Kollegal.	Chikkailuru	53,760	...	...	53,760	...				
		Doddasampagai	60,800	...	...	60,800	...				
		Sennakkalpalayam, 2nd Bit.	...	...	102	...	102	...	No. 325 of 8th July 1892.		
		Sivamalai	...	...	93	...	93	...	No. 345 of 27th July 1892.		
		Undorappatti, 1st Bit	...	...	117	...	117	...			
		Do. 2nd Bit	...	...	118	...	118	...			
		Settipalayam	...	...	95	...	95	...	No. 349 of 1st Aug. 1892.		
		Tattamadu	...	...	80	...	80	...			
		Yethilimalai	...	...	65	...	65	...			
		Sennadaipurai	...	...	36	...	36	...	No. 350 of 1st Aug. 1892.		
		Iyempalayam	...	...	116	...	116	...			
		Punjaithalaiyur	...	...	58	...	58	...	No. 350 of 1st Aug. 1892.		
		Ganapathipalayam.	...	...	80	...	80	...			
	Selambampalayam.	...	...	164	...	164	...	No. 351 of 1st Aug. 1892.			
	Kongayampalayam.	...	...	177	...	177	...	No. 363 of 11th Aug. 1892.			
	Akkarapalayam, 1st Bit.	...	...	...	...	64	...	64	...	No. 359 of 18th Aug. 1892.	
		Akkarapalayam, 2nd Bit.	...	...	97	...	97	...			
		Manakadavu	...	...	323	...	323	...	No. 432 of 7th Sept. 1892.		
		Nadukandamedu	...	...	218	...	218	...	No. 488 of 7th Oct. 1892.		
Pulakalipalayam		...	...	66	...	66	...	No. 486 of 12th Oct. 1892.			
Kulakalipalayam		...	...	87	...	87	...	No. 575 of 7th Dec. 1892.			
Vellakovil		Vellakovil	...	...	55	...	55	...	No. 497 of 17th Oct. 1892.		
		Ponnapuram, 1st Bit	...	...	272	...	272	...	No. 577 of 28th Nov. 1892.		
		Do. 2nd Bit	...	...	179	...	179	...			
Kamburkovil		...	...	84	...	84	...	No. 10 of 22nd Dec. 1892.			
Pudur		...	...	70	...	70	...	No. 20 of 9th Jan. 1893.			
Attamalai		...	...	646	...	646	...	No. 15 of 10th Jan. 1893.			
Maamedu		...	...	183	...	183	...	No. 130 of 6th Mar. 1893.			
Ganapathy		...	...	427	...	427	...	No. 133 of 6th Mar. 1893.			
Pulikalkaradu		...	...	419	...	419	...	No. 134 of 6th Mar. 1893.			
Tholathupatti	Tholathupatti	...	...	59	...	59	...	No. 169 of 27th April 1892.			
	Punjakurichi	...	...	81	...	81	...				
	Inanganur	...	...	212	...	212	...	No. 302 of 22nd June 1892.			
	Kumarasulayam	...	...	112	...	112	...				
	Kakkavadi Pichampatty.	...	...	179	...	179	...	No. 320 of 9th July 1892.			
	Tottiyavady	...	...	193	...	193	...				
	Modakkur	...	...	118	...	118	...	No. 521 of 7th Nov. 1892.			
	Nerur	...	...	131	...	131	...				
	Karavalli	...	...	65	...	65	...	No. 573 of 6th Dec. 1892.			
	Thalapat	...	...	157	...	157	...				
	Vandamalai Ranga-malai.	...	...	1,708	...	1,708	...				
		Total	310,280	484.81	7,526	...	317,806	496.57			

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
SOUTHERN CIRCLE—cont.										
Nilgiris —cont.	Ootacamund.	Red Hills	...	...	48	...	48	...	No. 30 of 15th Jan. 1892.	
		Kerulamund	...	...	276	...	276	...	No. 66 of 13th Feb. 1892.	
		Bigali Halla	...	...	46	...	46	...	No. 28 of 15th Jan. 1892.	
		Yedakot	...	...	117	...	117	...	No. 29 of 15th Jan. 1892.	
		Honnathalai, South.	...	...	214	...	214	...	No. 152 of 12th April 1892.	
		Rallia	...	...	382	...	382	...	No. 81 of 23rd Feb. 1892.	
		Teppakuchi	...	...	115	...	115	...	No. 130 of 21st Mar. 1892.	
		Naduhatti	...	...	476	...	476	...	No. 79 of 23rd Feb. 1892.	
		Yerkandhalla	...	...	18	...	18	...	Nos. 113 & 114 of 15th Mar. 1892.	
		Konakarai	...	...	1,864	...	1,864	...	No. 152 of 12th April 1892.	
		Vagapanai	...	...	2,648	...	2,648	...	Do.	
		Donad	...	...	2,073	...	2,073	...		
	Coonoor.	Madanad	...	...	723	...	723	...	Do.	
		Kodanad Valley	...	...	294	...	294	...		
		Nodugula	...	...	89	...	89	...	Do.	
		Longwood addition No. II.	...	...	31	...	31	...		
		Jakanure slopes	...	...	6,419	...	6,419	...	Do.	
		Pakasuramalai	...	...	625	...	625	...	No. 348 of 1st Aug. 1892.	
		Pilloor shola	...	...	39	...	39	...	No. 348 of 1st Aug. 1892.	
		Kulear	...	...	226	...	226	...	No. 7 of 19th Dec. 1892.	
		Sutton shola addition.	...	...	38	...	38	...	No. 355 of 29th July 1892.	
		Thaimalai shola	...	...	50	...	50	...	No. 203 of 10th May 1892.	
		Tudor shola	...	...	24	...	24	...	No. 198 of 10th May 1892.	
		Osutti	...	...	152	...	152	...	No. 337 of 23rd July 1892.	
		Commander Reserve addition.	...	...	32	...	32	...	No. 354 of 3rd Aug. 1892.	
		Rallia Reserve addition.	...	...	3	...	3	...	No. 565 of 28th Nov. 1892.	
		Teppakuchi addition.	...	...	4	...	4	...	No. 428 of 7th Sept. 1892.	
		Total		132,530	207.08	17,026	144	149,412	233.46	
North Malabar.	Chedleth Reserved Forest.	Kuppadi	7,337	...	...	...	7,337	...		
		Kurchiyat	18,064	...	...	...	18,064	...		
		Rampur	18,855	...	...	...	18,855	...		
		Nulpoya	3,613	...	...	...	3,613	...		
		Mavinbulla	12,577	...	...	...	12,577	...		
	Trans-Beni.	Begur	15,366	...	...	...	15,366	...		
		Adavankunnu	39	...	...	...	39	...		
		Kudrakote	...	...	20,240	...	20,240	...		
		Kudrakote	...	...	...	...	...	...	No. 559 of 24th Nov. 1892.	
		Total	73,841	118.61	20,240	...	96,081	150.13		
South Malabar.	Nilambor.	Amarampalem	468	...	6	...	(a) 474	...		
		Chathambarai	700	...	...	...	700	...		
		Karimpoya Reserve.	3,956	...	...	...	3,956	...		
		Nellikutta do.	1,824	...	...	...	1,824	...		
		Walseyar do.	3,017	...	...	...	3,017	...		
		Chenat Nair do.	15,203	...	...	...	15,203	...		
Total		25,167	39.32	6	...	25,173	39.33			

(a) By rectification of area.

Area of Reserved Forests, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANS- FERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equiva- lent in square miles.	Acres.	Acres.	Acres.	Equiva- lent in square miles.			
SOUTHERN CIRCLE—cont.											
South Canara.	Coonda- poor.	No. I, Sabladi	208	..	..	..	208	..	..		
		" II, Ajjarkadu.	160	..	..	..	160	..	..		
		" III, Pilarkhan.	320	..	..	..	320	..	..		
		" VIII, Chinkra- malle.	2,560	..	..	..	2,560	..	..		
	Udipi.	" VI, Manaje- kadu.	423	..	..	..	423	..	..		
		" XIV, Durgamalai	1,601	..	..	..	1,601	..	..		
		" XV, Andar Re- serve.	22,334	..	..	..	22,334	..	..		
		" VII, Tenkahola.	2,039	..	..	..	2,039	..	..		
	Mangalore.	" VI, Chembu- gudde.	75	..	..	..	75	..	..		
		" VII, Kutiyar	25	..	..	..	25	..	..		
		Nos. V and IV, Poi- taji and Kayarpalle.	96	..	..	..	96	..	..		
		No. V, Ullal Casu- arina and Honne.	57	..	..	..	57	..	..		
		" X, Tannir- bhavi.	70	..	..	..	70	..	..		
		" XII, Hosabettu Reserve.	376	..	..	..	376	..	..		
		" XI, Todar Re- serve.	458	..	..	..	458	..	..		
		" XIII, Unjimale	3,200	..	..	..	3,200	..	..		
		Uppinan- gadi.	" I, The Shiradi Siale Re- serve.	19,200	..	..	..	19,200	..	..	
			" IV, The Bhagi- malai.	6,400	..	..	..	6,400	..	..	
	Coonda- poor.	Kasankatto	..	..	262	..	262	..	No. 560 of 28th Nov. 1892.		
		Harkur	..	..	858	..	858	..	No. 16 of 10th Jan. 1893.		
		Jennal Ane	..	..	657	..	657	..	No. 150 of 20th March 1893.		
	Kasaragod.	Parappa	..	..	2,560	..	2,560	..	No. 132 of 21st March 1892.		
	Total			59,602	93.13	4,337	..	63,939	99.91	..	
	Total of the Circle			1,627,322	2,542.69	70,593	113,965	1,583,860	2,474.78	..	
	Grand Total of the three Circles.			4,591,920	7,174.87	1,562,400	115,597	6,038,723	9,435.50	..	

ANNUAL FORM No. 59-B.

Forest Department, Madras Presidency.

AREA of Reserved Lands, 1892-93.

ABSTRACT.

District.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.	
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.
Northern Circle.						
Ganjām	72,756	113.68	...	...	72,756	113.68
Vizagapatam	8,960	14	6,448	...	15,408	24.08
Goddavari	267,668	416.23	15,130	...	282,798	441.87
Kistna	289,307	452.04	117,467	1,680	405,144	633.04
Anantapur	19,944	31.16	44,678	...	64,622	100.97
Bellary	66,906	104.54	69,789	...	136,695	213.58
Kurnool	683,800	1,068.44	421,244	...	1,105,044	1,726.63
Total ...	1,409,341	2,202.09	674,757	1,680	2,083,468	3,253.85
Central Circle.						
Nellore	168,124	262.69	49,710	...	217,834	340.37
Cuddapah	265,171	414.33	352,003	...	617,774	965.27
Chingleput	93,604	146.26	5,343	...	98,947	154.90
North Arcot	328,283	512.94	112,318	...	440,601	688.44
South Arcot	104,937	163.96	141,655	2	246,590	385.30
Tanjore	5,860	9.17	4,398	...	10,257	16.04
Trichinopoly	101,968	159.33	19,998	...	121,966	190.57
Salem	487,301	761.41	131,115	...	618,416	966.28
Total ...	1,555,257	2,430.09	817,140	2	2,372,395	3,706.87
Southern Circle.						
Madura	298,506	466.41	7,845	...	306,351	478.67
Tinnevely	363,135	567.40	13,523	113,821	262,837	410.68
North Coimbatore	810,280	1,264.81	7,526	...	817,806	1,264.87
South Coimbatore	362,261	566.03	...	...	362,261	566.03
Nilgiris	182,530	287.08	17,026	144	149,412	233.46
North Malabar	75,841	118.51	20,240	...	96,081	150.13
South Malabar	25,167	39.32	6	...	25,173	39.33
South Canara	59,602	93.13	4,337	...	63,939	99.91
Total ...	1,627,322	2,542.69	70,503	113,965	1,556,860	2,474.78
Grand Total ...	4,591,920	7,174.87	1,562,400	115,597	3,029,460	4,649.65

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
NORTHERN CIRCLE.										
Ganjam.	West Goomsur.	Kaliamba	5,200	...	...	...	5,200	...	...	...
		Teleki	15,200	...	...	...	15,200	...	...	...
		Baibali	21,920	...	...	...	21,920	...	...	...
		Darpangia	16,160	...	...	...	16,160	...	...	...
		Rambha	9,300	...	...	...	9,300	...	...	...
	East Goomsur.	Gullery	23,860	...	...	...	23,860	...	...	...
		Koolada	2,760	...	...	...	2,760	...	...	...
		Ambazara	32,000	...	...	...	32,000	...	...	...
		Chodiapalli	960	...	...	...	960	...	...	...
		Gundribadi	12,200	...	...	...	12,200	...	...	...
	Bugudā.	Do. N. and S. extensions.	...	...	9,500	...	9,500	...	No. 240 of 26th May 1892.	...
		Gogoda	15,240	...	...	...	15,240	...	...	...
		Paichalia	13,760	...	...	...	13,760	...	...	...
		Brahmanosai	8,080	...	...	...	8,080	...	...	...
		Kurcholi	5,520	...	...	...	5,520	...	...	...
	Bugudā.	Kriyamba	23,320	...	...	...	23,320	...	...	...
		Sandusalya	2,000	...	...	...	2,000	...	...	...
		Boduchendana	800	...	...	...	800	...	...	...
		Dhongam	2,400	...	...	...	2,400	...	...	...
		Rogoda	16,000	...	...	...	16,000	...	...	...
	Bugudā.	Pipalapanka	7,700	...	...	...	7,700	...	...	...
		Moondapitte	6,880	...	...	...	6,880	...	...	...
		Hukuma	4,160	...	...	...	4,160	...	...	...
		Bayigoda	6,700	...	...	...	6,700	...	...	...
		Ramagodo	6,620	...	...	...	6,620	...	...	...
	Berhampur.	Bainamari	3,750	...	...	...	3,750	...	...	...
		South Mohiri	3,730	...	...	...	3,730	...	...	...
		Bollihogoda	261	...	...	...	261	...	...	...
		Balakristnapuram.	164	...	...	...	164	...	...	...
		Chatrapur	695	...	...	...	695	...	No. 199 of 10th May 1892.	...
		Dhura	279	...	100	...	379	...	...	...
		Golobondo	379	...	...	...	379	...	...	...
		Podhora	760	...	...	...	760	...	...	...
		Mushidipalem	238	...	...	...	238	...	...	...
		Kusini	625	...	...	...	625	...	No. 172 of 26th April 1892.	...
	Berhampur.	Bendaliya	163	...	...	...	163	...	...	...
		Mohoda	419	...	...	...	419	...	No. 458 of 22nd Sept. 1892.	...
		Mushujakalli or Kukkarakandi.	522	...	...	...	522	...	No. 473 of 22nd Sept. 1892.	...
		Anknapuram	138	...	...	...	138	...	No. 457 of 22nd Sept. 1892.	...
		Mohungora	1,697	...	...	...	1,697	...	...	...
		Mahartapalli	924	...	...	...	924	...	...	...
		Virakrishnachandrapuram.	445	...	...	...	445	...	...	...
		Godohill	225	...	...	...	225	...	...	...
		Joronohill	1,002	...	...	...	1,002	...	...	...
		West Ratukamara.	179	...	...	...	179	...	...	...
	Chicacole.	Ninmapuram	697	...	...	...	697	...	...	...
		Sikharapuram	260	...	...	...	260	...	...	...
		Shapuram	142	...	...	...	142	...	...	...
		Napier's Park	27	...	...	...	27	...	No. 199 of 10th May 1892.	...
		Tulaga	148	...	...	...	148	...	...	...
		Ampolu	225	...	...	...	225	...	...	...
		Singapuram	693	...	...	...	693	...	...	...
		Rana	107	...	...	...	107	...	...	...
		Rahimapuram	274	...	...	...	274	...	...	...
		Koderu	279	...	...	...	279	...	...	...

Area of Reserved Lands, 1892-92—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
NORTHERN CIRCLE—cont.										
Ganjam—cont.	Chicoole—cont.	Jammu	175	...	...	...	175	...	.....	
		Godalam	125	...	...	...	125	...	.....	
		Bankuhanumantapuram, Nos. I, II and III.	1,520	...	...	...	1,520	...	.....	
		Total ...	280,007	437.51	9,600	...	289,807	452.51		
Vissayapatnam.	Golconda ...	Arlova	* 2,472	...	† 1	...	2,473	...	No. 496 of 14th Oct. 1892.	Transferred to reserved forest.
		Pedimkonda	* 3,227	...	...	...	3,227	...	.....	
		Kakurlakonda	1,924	...	...	...	1,924	...	No. 496 of 14th Oct. 1892.	}
		Venkatasapuram	508	...	...	...	508	...		
	Palkonda Agency.	Kodavatipudi	1,544	...	...	...	1,544	...	.....	
		Madalammakonda	3,600	...	...	...	3,600	...	.....	
		Karakakonda	6,270	...	...	...	6,270	...	.....	
		Barnakonda	16,240	...	...	...	16,240	...	.....	
	Golconda ...	Antikonda	6,800	...	...	...	6,800	...	.....	
		Kadayandi	9,920	...	...	...	9,920	...	.....	
		Sinivaram	...	...	31,340	...	31,340	...	No. 347 of 1st Aug. 1892.	}
		Dharkonda	...	...	46,880	...	46,880	...		
	Palkonda ...	Boinitti	...	...	32,960	...	32,960	...	.....	
		Chintapalli	...	...	12,600	...	12,600	...	No. 45 of 25th Jan. 1893.	
		Chinnamangalapuram	...	...	51	...	51	...	No. 47 of 25th Jan. 1893.	
		Garugupilli	...	...	27	...	27	...	No. 812 of 9th June 1893.	
	Sarasiddhi ...	Chinnagora	...	...	2,047	...	2,047	...	No. 236 of 1st May 1893.	}
		Ichapuram	...	...	900	...	900	...		
		Vemagiri	...	...	1,641	...	1,641	...	.....	
		Gokivada	...	...	1,305	...	1,305	...	.....	
Goddavari.	Peddapuram ...	Panchadharla	...	...	1,221	...	1,221	...	.....	
		Kalavallapalli	...	...	1,242	...	1,242	...	.....	
		Rambilli	...	...	485	...	485	...	.....	
		Total ...	52,505	82.04	132,760	6,449	178,816	279.40		
	Peddapuram ...	Banasaram	2,500	...	...	...	2,500	...	.....	
		Banadapalli	6,800	...	...	...	6,800	...	.....	
		Lododdi	8,400	...	...	...	8,400	...	.....	
		Vatangi	11,000	...	...	...	11,000	...	.....	
		Aminbada	5,600	...	...	...	5,600	...	.....	
		Anantagiri	3,900	...	...	...	3,900	...	.....	
		Laborti	8,100	...	...	...	8,100	...	.....	
		Doramasidi	7,200	...	...	...	7,200	...	.....	
		Verubhadram	11,200	...	...	...	11,200	...	.....	
		Jeddangi	6,700	...	...	...	6,700	...	.....	
		Annayaram	10,500	...	...	...	10,500	...	.....	
		Peddaguranga	5,800	...	...	...	5,800	...	.....	
	Lingamparti	7,600	...	...	...	7,600	...	.....		
	Devanecheruvu	5,000	...	...	...	5,000	...	.....		
	Bajahmundry.	Lakkonda	13,000	...	...	...	13,000	...	No. 476 of 6th Oct. 1892.	1,750 acres excluded at settlement and 8,250 acres transferred to reserved forest.
		Mollara ...	10,000	...	...	10,000	...	...	No. 53 of 27th Jan. 1892.	Transferred to reserved forest.
Sudikonda		6,880	...	...	6,880	...	...	.....		
Mallavaram		6,500	...	...	...	6,500	...	.....		
		Tirumalipalem	9,200	...	...	...	9,200	...	.....	
		Walsugri	8,700	...	...	...	8,700	...	.....	
* Inserted wrongly in previous page.										

* Inserted wrongly in previous year's return.

† By rectification of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.			
NORTHERN CIRCLE—cont.											
Gondal—cont.	Rékápalle	Rékápalle Hills	107,700	...	...	...	107,700	...	...		
	Datta	Upputera	10,000	...	...	...	10,000	...	...		
		Kandikuppa	9,000	...	...	...	9,000	...	...		
	Ellore	Ungatur, Blocks I and II.	4,500	...	...	...	4,500	...	...		
		Jilugumilli	3,300	...	...	...	3,300	...	...		
	Yerrugudem.	Darbhagudem	2,200	...	...	...	2,200	...	...		
		Barrinkalapadu	1,600	...	...	...	1,600	...	...		
		Thaduvai	1,900	...	...	...	1,900	...	...		
		Marlagudem	2,700	...	...	...	2,700	...	...		
		Beddadavole	15,000	...	...	...	15,000	...	...		
		Rajahmundry	400	...	...	...	400	...	...		
		Nallacherla	11,000	...	...	...	11,000	...	...		
		Kopilli	19,000	...	...	...	19,000	...	...		
		Korvada	19,000	...	...	...	19,000	...	...		
		Papikonda	21,000	...	...	...	21,000	...	...		
	Total		382,880	598.25	...	16,880	366,000	571.87			
	Kistna.	Bozwada	Kondapalle	20,722	...	...	20,722	...	...	No. 308 of 24th June 1892.	Transferred to reserved forest.
			Kothur	700	...	...	...	700	...	...	Deducted 47 acres by rectification of area and transferred to reserved forest 1,356 acres.
			Kolakalur	1,403	...	...	1,403	...	...	...	
Guntur											
		Vinukonda	Lam	987	...	...	* 90	897	...	...	
Bollapalli, Nos. I & II.			12,000	...	...	...	12,000	...	...		
Koppukonda			5,000	...	...	5,000	...	...	No. 300 of 21st June 1892.	Transferred to reserved forest.	
Palnad		Paavemula	22,782	...	(a) 5,514 (b) 22,782	...	5,514	...	(a) No. 81 of 30th Jan. 1893. (b) No. 93 of 5th March 1892. (c) Reserved lands under rules under section 26. (d) No. 47 of 22nd Jan. 1892. (e) Reserved lands under section 26. (f) No. 543 of 25th Nov. 1892.	(b) Do. (d) Do. (f) 98 acres deducted at settlement and 1,300 acres transferred to reserved forest.	
		Kandlagunta	34,947	...	(2) 1,000 (d) 34,947	...	21,000	...			
		Tangeda, II	1,395	...	(e) 5,600 (f) 1,395	...	5,600	...			
		Tumkurukodu, No. II Do. No. III	2,940 4,730	...	(p) 450	...	2,940 4,180	...	(g) Reserved lands under rules under section 26. (h) No. 58 of 1st June 1892. No. 413 of 13th Sept. 1892. No. 446 of 18th Sept. 1892. No. 539 of 10th Nov. 1892. No. 540 of 19th Nov. 1892. No. 551 of 19th Nov. 1892. (Reserved lands under section 26 of the Forest Act.	Transferred to reserved forest.	
Beswada		Mutukur	31,360	...	(g) 12,440 (h) 31,360	...	12,440	...			
		Jangalpulli	...	...	1,420	...	1,120	...			
		Volavadam	...	...	940	...	940	...			
		Dasullapalem	...	...	1,280	...	1,280	...			
		Gannavaram	...	...	1,990	...	1,990	...			
		Gollapudi	...	...	1,022	...	1,022	...			
		Vollatur	...	...	600	...	600	...			
Jupudi		...	...	300	...	300	...				

* By revised estimate.

ANNUAL REPORT OF THE
Area of Reserved Lands, 1892-93 - cont.

District.	Range.	Name of Forest.	Area on 1st April 1892.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1893.		Number and Date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
NORTHERN CIRCLE—cont.										
Kistna—cont.	Guntur	Kondavid, Extension I.	...	...	550	...	550	...	No. 433 of 7th Sept 1892. No. 461 of 22nd Sept. 1892. No. 417 of 29th Aug. 1892. No. 456 of 22nd Sept. 1892. No. 546 of 25th Nov. 1892.	
		Do. II.	...	...	250	...	250	...		
		Chinnapalakur, I and II.	...	...	432	...	432	...		
		Poddamaduru	...	...	300	...	300	...		
		Nidamukkala	...	...	600	...	600	...		
	Sattenapalle	Motadaka	...	...	318	...	318	...		
		Venkatayyapalm.	...	...	1,200	...	1,200	...		Reserved lands under rule 26 of the Forest Act.
		Extension VII.	...	...	1,900	...	1,900	...		
		Do. VIII.	...	...	400	...	400	...		
		Do. IX.	...	...	700	...	700	...		
Do. X.		...	...	800	...	800	...			
Kuntumaddi		...	...	360	...	360	...			
Kandipad		...	...	930	...	930	...			
Krosur, I and II		...	...	360	...	360	...			
Takkollapadi.		...	...	760	...	760	...			
Vinukonda	Chamarra	...	...	900	...	900	...			
	Yellamarazupalem	...	...	1,300	...	1,300	...			
	Konaki, Extension I	...	...	3,500	...	3,500	...			
	Do. II.	...	...	1,500	...	1,500	...			
	Sitarampuram	...	...	3,133	...	3,133	...			
	Bollapalle, Extension III.	...	...	737	...	737	...			
	Do. IV.	...	...	800	...	800	...			
	Do. V.	...	...	807	...	807	...			
	Do. VI.	...	...	222	...	222	...			
	Kakirala, Extension I.	...	...	8,224	...	8,224	...			
Vinukonda	Vinnukonda	...	...	328	...	328	...			
	Gobanakonda	...	...	750	...	750	...			
	Kopparam, II	...	...	303	...	303	...			
	Kolalapudi	...	...	801	...	801	...			
	Putturam	...	...	58	...	58	...			
	Bogaram	...	...	303	...	303	...			
	Ravavaram	...	...	774	...	774	...			
	Ramudupalem	...	...	1,367	...	1,367	...			
	Nayanapalem, I and II.	...	...	1,625	...	1,625	...			
	Yellamanda, I and II.	...	...	1,542	...	1,542	...			
Vinukonda	Narasayapalem	...	...	518	...	518	...			
	Garladinne	...	...	357	...	357	...			
	Bobbepalli	...	...	330	...	330	...			
	Velohur, I	...	...	260	...	260	...			
	Do. II.	...	...	1,067	...	1,067	...			
	Correpad	...	...	792	...	792	...			
	Nagurupalli	...	...	...	...	...	...			

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.		
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.				
NORTHERN CIRCLE—cont.												
Kistna—cont.	Vinukonda—cont.	Dronadula	...	...	255	...	255	...	No. 507 of 6th June 1893.	Reserved land under rules under sec. 26 of the Forest Act. Do.		
		Muppala	...	...	4,600	...	4,600	...				
		Gangalakunta, I	...	...	1,800	...	1,800	...				
		Madinapad, Extension I.	...	...	1,500	...	1,500	...				
		Darvemula	...	...	760	...	760	...	No. 113 of 24th Feb. 1893.			
	Palnad	Atmakur	...	...	211	...	211	...	No. 60 of 30th Jan. 1893.	Reserved lands under rules under section 26 of the Forest Act.		
		Kambhampad	...	...	592	...	592	...	No. 59 of 30th Jan. 1893.			
		Madugula	...	...	2,800	...	2,800	...				
		Daida	...	...	3,100	...	3,100	...				
		Gali	...	...	4,300	...	4,300	...				
		Rayavaram	...	...	217	...	217	...				
		Podagurilapadu	...	...	1,400	...	1,400	...				
		Vemavaram	...	...	2,600	...	2,600	...				
		Govindapuram	...	...	2,000	...	2,000	...				
		Dachepalle	...	...	850	...	850	...				
		Total	137,966	215.57	121,849	117,699	142,116	222.06				
		Gooty	Peddadoddi	3,200	...	...	3,200	...	...		No. 237 of 16th May 1892.	721 acres deducted by rectification of area and 2,479 acres transferred to reserved forest.
			Jakkalacheruvu	3,200	...	...	732	2,468	...			
			Nagmusunudram N. & S.	9,600	...	2,131	...	11,731	...			
Cutturmulla	7,680		...	1,892	...	12,482	...					
Bhadrapalle	1,225		...	1	4,226	...	...	No. 17 of 9th Jan. 1893.				
Marutha	11,520		...	1,436	...	12,956	...					
Tarainalla	8,960		...	2,614	...	11,574	...					
Yadaki	5,120		...	4,556	...	9,676	...					
Guntakal, I, II & III	890		...	43	933	...	...	Nos. 67, 68, and 69 of 13th Feb. 1892.				
Muchukota	21,759		...	...	...	21,759	...		Transferred to reserved forest.			
Durgam	3,200		...	440	3,640	...	...	No. 407 of 22nd Mar. 1893.				
Kudair	4,480		...	142	...	4,480	...					
Uppurapalli	640		...	1,714	3,634	...	...	No. 456 of 21st Sept. 1892.				
Dadithota	1,920		...	...	...	...	...	No. 38 of 16th Jan. 1893.				
Yellatla	9,182	...	...	9,182	...	...	No. 409 of 22nd Aug. 1892.					
Chillawaripalle	3,840	...	1,140	4,980	...	...	No. 406 of 22nd Aug. 1892.					
Anantapur.	Konakuntla	1,600	...	16	1,616	...	...	No. 485 of 10th Oct. 1892.	Transferred to reserved forest.			
	Nairjampalle	2,285	...	...	2,285	...	...					
	Yellanur	320	...	836	...	1,156	...					
	Gootoor, E. & W.	7,804	...	...	...	7,804	...					
	Kalyandrug	1,552	...	...	1,552	...	...	Nos. 294 and 303 of 15th June 1892.				
	Dharmavaram.									8 acres deducted at settlement and 1,471 acres transferred to reserved forest.		
	Ramghiri	10,240	...	...	713	9,527	...					

* By rectification of area.

Area of Reserved Lands, 1892-93—cont.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
NORTHERN CIRCLE—cont.										
Anantapur—cont.	Dharmavaram—cont.	Bhadrapur	3,347	...	* 1,773	5,120	...	...	No. 151 of 12th April 1892.	Transferred to reserved forest.
		Nyalakota	12,857	...	...	* 701	12,156	...	...	...
		Penukonda Hill	4,945	...	...	* 304	4,642	...	...	...
		Somandapally	9,782	...	...	...	9,782	...	...	...
		Yerlampalle	3,550	...	...	* 217	3,303	...	...	...
	Penukonda	Mallappakonda	5,120	...	...	* 750	4,370	...	...	...
		Mallakavemla-konda.	2,138	...	* 147	...	2,285	...	...	...
		Januvaripalle	3,200	...	* 2,885	...	6,085	...	No. 562 of 25th Nov. 1892.	164 acres excluded at settlement and 2,134 acres transferred to reserved forest.
		Agraharam	2,800	...	...	2,800	...	...	...	...
		Venglamcheruvu	2,880	...	...	2,880	...	...	No. 18 of 9th Jan. 1893.	800 acres excluded at settlement and 2,371 acres transferred to reserved forest.
	Hindapur	Yerrakonda	7,729	...	...	* 412	7,317	...	...	...
		Amagondapalem	15,772	...	...	...	7,120	...	...	...
		Dokkalakonda	7,120	...	...	607	...	...	No. 353 of 1st Aug. 1892.	Transferred to reserved forest.
		Kondur	607	...	...	...	...	...	...	...
		Gopidevarapalle	1,884	...	...	...	1,884	...	...	...
	Gooty	Penikacherla, Block I.	...	...	...	660	...	...	No. 173 of 27th April 1892.	...
		Penikacherla, Block II.	...	...	...	...	...	...	No. 183 of 10th April 1893.	...
		Illur	...	...	...	1,293	...	...	No. 197 of 23rd Feb. 1893.	...
		Koppalakonda	...	...	...	751	...	...	No. 222 of 27th April 1893.	...
		Kristipadu	...	...	...	860	...	...	...	...
Penukonda	Teliki	...	...	...	891	...	...	No. 184 of 10th April 1893.	...	
	Cherlopalli	...	...	...	2,344	...	...	No. 325 of 20th June 1893.	...	
	Kakathi	...	...	...	2,478	...	...	...	...	
	Total	206,719	323.05	34,565	50,014	191,300	298.91	...	...	
	Ganekolu	1,070	...	...	1,070	...	...	No. 259 of 10th June 1892.	Transferred to reserved forest.	
Bellary.	Adóni	Bulcheri	1,380	...	...	...	1,380	...	...	...
		Ráya-hóti	1,892	...	...	* 304	1,588	...	...	...
		Kurimetla	2,812	...	...	...	2,812	...	No. 379 of 25th July 1892.	Transferred to reserved forest.
		Kotekalla	2,575	...	...	2,575	...	...	...	...
		Adóni, East	2,172	...	...	2,172	...	...	No. 119 of 27th Feb. 1893.	338 acres excluded at settlement and 1,834 acres transferred to reserved forest.
	Do. West	Kúppal	3,165	...	...	...	* 3,165	...	...	...
		Tungabhadra	4,633	...	...	...	4,633	...	...	...
		Koeti	2,951	...	...	...	2,951	...	...	...
		Kudbér	2,956	...	...	...	2,956	...	...	...
		Bilehala	916	...	...	† 10	906	...	...	...

* By rectification of area.

† Correction of area.

‡ Deducted at settlement.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles			Acres.	Equivalent in square miles.		
NORTHERN CIRCLE—cont.										
Bellary—cont.	Adóni—cont.	Kanchagarp Billa-gallu.	856	...	...	856	...	...	No. 91 of 6th Feb. 1893.	Transferred to reserved forest.
		Holalagondi	906	...	...	906	...	...	No. 21 of 9th Jan. 1893.	
		Muddatamagi	317	...	...	317	...	...	No. 33 of 16th Jan. 1893.	
		Virupapuram	136	...	...	136	...	...	No. 37 of 19th Jan. 1893.	
		Pagaluchukka-vanka.	241	...	...	241	...	...	No. 101 of 18th Feb. 1893.	
	Bellary	Ramadurgamkonda.	337	...	...	337	...	...	No. 549 of 25th Nov. 1892.	Transferred to reserved forest.
		Nagaradona	140	...	...	140	...	...	No. 572 of 6th Dec. 1892.	
		Suguru	530	...	...	530	...	...	No. 190 of 7th May 1892.	
		Nadivi	425	...	...	425	...	...	No. 210 of 10th May 1892.	
		Vonnahalli	105	...	...	105	...	...	No. 400 of 18th Aug. 1892.	
	Sandúru	Mundrigi	48	...	* 1	49	...	...	No. 364 of 11th Aug. 1892.	Transferred to reserved forest.
		Dharmapuri	4,100	...	...	4,100	...	...	No. 487 of 12th Oct. 1892.	
		Hospet	3,080	...	...	3,030	...	...	No. 236 of 26th May 1892.	
		Oblagundi	692	...	...	692	...	...	No. 116 of 18th Mar. 1892.	
		Billekal	12,447	...	...	12,447	...	...	No. 149 of 17th Mar. 1893.	
	Kádligi	Buckasagar	6,000	...	...	6,000	...	...	No. 590 of 7th Dec. 1892.	13 acres deducted by rectification and 5,987 acres transferred to reserved forest.
		Bandri	16,239	...	...	16,239	...	...	No. 495 of 17th Oct. 1892.	
		Sandúru	40,000	...	...	40,000	...	...	...	Transferred to reserved forest.
		Banivikal	3,564	...	...	3,564	...	...	No. 213 of 12th May 1892.	
		Nimlagiri	4,792	...	...	4,792	...	...	No. 192 of 7th May 1892.	Do.
Gudokota		7,000	...	...	7,000	...	...	...		
Harada		16,400	...	...	16,400	...	...	...		
Sogai		4,200	...	...	4,200	...	...	...		
Jitnakatta		12,646	...	...	† 402	12,244	...	...		
Jangukalgrutta		12,882	...	...	12,882	...	...	...		
Adóni	Alagilavada	1,900	...	...	1,900	...	...	No. 120 of 16th Mar. 1892.	Do.	
	Uchingidrug	4,200	...	...	4,200	...	...	No. 23 of 9th Jan. 1893.		
	Sunkaduka, East	843	...	...	843	...	...	No. 380 of 17th Aug. 1892.	Do.	
	Kakkuppi	9,000	...	...	9,000	...	...	No. 595 of 6th Dec. 1892.		
	Ramadurgam	2,500	...	...	2,500	...	...	No. 100 of 9th Feb. 1893.	Do.	
	Halaharvi	...	...	840	...	840	...	No. 275 of 16th May 1892.		
	Chinnakadabur	...	...	669	...	669	...	No. 326 of 13th June 1893.		
	Dibbanakallu	...	...	974	...	974	...	...		
	Basapuram	...	...	204	...	204	...	...		
	Belagallu	...	...	764	...	764	...	...		
Kandakur	...	...	514	...	514	...	...			

* Correction of area.

† Rectification of area.

Area of Reserved Lands, 1892-93—cont.

District	Range.	Name of Forest.	AREA ON 1st APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30th JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
NORTHERN CIRCLE—cont.											
Bellary—cont.	Bellary	Haladahalli	...	...	250	...	250	...	No. 100 of 9th Feb. 1893.		
		Konchanaguddam.	...	...	355	...	355	...	No. 102 of 9th Feb. 1893.		
		Nagalapuram	...	...	555	...	555	...	{ No. 100 of 9th Feb. 1893.		
		Virapuram	...	...	4,353	...	4,353	...			
		Shiripi, A	...	...	915	...	915	...			
		Kontanahalli	...	...	1,318	...	1,318	...			
		Banduru	...	...	605	...	605	...	{ No. 102 of 9th Feb. 1893.		
		Udegulam	...	...	617	...	617	...			
		Uppaheshahalli	...	...	1,179	...	1,179	...	{ No. 275 of 16th May 1893.		
		Balakundi	...	...	309	...	309	...			
		Shrirangapuram	...	...	806	...	806	...			
		Shiripi, B	...	...	379	...	379	...			
	Sandūru	Uddihali	...	...	659	...	659	...	{ No. 326 of 13th June 1893.		
		Mocheri, Blocks A & B.	...	...	318	...	318	...			
		Mallapuram	...	...	853	...	853	...			
		Pāpināyakanahalli.	...	...	316	...	316	...			
		Chelakanahatti	...	...	743	...	743	...	{ No. 102 of 9th Feb. 1893.		
		Shivapuram Extension.	...	...	6,045	...	6,045	...			
		Chiribi Extension.	...	...	5,613	...	5,613	...		{ No. 100 of 9th Feb. 1893.	
		Kakkappa, North-east.	...	...	1,580	...	1,580	...			
		Kakkappa, South-east.	...	...	604	...	604	...	{ No. 102 of 9th Feb. 1893.		
		Kariaginahalli	...	...	3,127	...	3,127	...			
		Banavikalu, North-eastern extension.	...	...	1,655	...	1,655	...			
	Kūdligi	Hampapattanam	...	...	115	...	115	...	{ No. 100 of 9th Feb. 1893.		
		Koilaragatti	...	...	2,225	...	2,225	...			
		Tambinakari	...	...	2,016	...	2,016	...			
		Alagilavada extension.	...	...	4,160	...	4,160	...			
		Sogi, Northern extension.	...	...	487	...	487	...	{ No. 275 of 16th May 1893.		
		Sogi, North-western extension.	...	...	308	...	308	...			
		Sogi, Southern extension.	...	...	230	...	230	...			
		Murakalamurdi	...	...	450	...	450	...			
		Nimbalagiri, Northern extension.	...	...	359	...	359	...	{ No. 326 of 13th June 1893.		
		Nimbalagiri, Western extension.	...	...	698	...	698	...			
		Nimbalagiri, South-eastern extension.	...	...	1,878	...	1,878	...			
		Nilgunda	...	...	1,978	...	1,978	...			
	Kūdligi	Sunkadakallu, North-western extension.	...	...	450	...	450	...	{ No. 326 of 13th June 1893.		
		Sunkadakallu, South-western extension.	...	...	6,426	...	6,426	...			
		Sunkadakallu, Eastern extension.	...	...	759	...	759	...			
		Total	197,636	308.81	59,878	70,882	186,632	291.61			
Kurnool	Onnabum and Markapur.	Cumbum	217,000	...	* 600	217,600	...	...	No. 104 of 5th Mar. 1892.		
	Markapur	Markapur	181,875	...	...	181,875	...	...	No. 105 of 5th March 1892.		
	Cumbum	Western goudas	17,310	...	* 570	17,780	...	...	No. 50 of 22nd Jan. 1892.		

* Correction of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.			
NORTHERN CIRCLE—cont.											
Kupool—cont.	Pattikonda and Ramalakot.	South Dhong	4,000	...	...	4,000	...	...	No. 52 of 19th Jan. 1892.	11 acres excluded at settlement and 3,989 acres transferred to reserved forest.	
		North Dhong	10,000	...	...	...	10,000	...	...		
	Pattikonda	Pendikallu	2,570	...	...	...	2,570	...	...	No. 166 of 27th April 1892.	
		Kapatralla	2,880	...	...	...	2,880	...	...		
		Kurumanchi	1,550	...	...	...	1,550	...	...		
		Katankonda	3,430	...	...	...	3,430	...	...		
		Gundlakonda	4,690	...	...	...	4,690	...	...		
		Poddapaya	...	...	3,380	...	3,380	...	...		
		Pyapili	...	...	1,290	...	1,290	...	...		
	Sārvel	Tekalakonda	...	...	715	...	715	...	...	No. 168 of 27th April 1892.	
		Jaladurgam	...	...	19,337	...	19,337	...	...		
		Sirvel Terai, Block I of Kotakonda.	...	...	1,725	...	1,725	...	...		No. 189 of 4th May 1892.
	Nandyal	Sirvel Terai, Block II of Ahobalam.	...	...	16,530	...	16,530	...	...		
		Sirvel Terai, Block III of Bachepalli.	...	...	10,300	...	10,300	...	...		
		Nandyal Terai, Block I of Gazulapalli.	...	...	6,000	...	6,000	...	...	No. 186 of 4th May 1892.	
	Nandyal Terai, Block II of Yernapad.	...	...	16,400	...	16,400	...	...			
	Markapur	Yerrakondapalamp.	...	...	10,190	...	10,190	...	...	No. 365 of 3rd Aug. 1892. No. 28 of 21st Jan. 1893. No. 313 of 9th June 1893.	
		Baddivid	...	...	1,030	...	1,030	...	...		
		Tokapalle	...	...	1,407	...	1,407	...	...		
		Tamballapalli	...	...	2,014	...	2,014	...	...		
		Total	445,205	695.68	91,488	421,255	115,438	180.37			
		Total of the Circle.	1,702,918	2,660.86	450,140	688,179	1,469,909	2,296.73			
CENTRAL CIRCLE.											
Nellore.	Kanigiri	Chinnakurthi	7,500	...	* 500	...	7,500	...	No. 494 of 14th Oct. 1892.	Transferred to reserved forest.	
		Kanigiri Durgam.	1,500	...	...	2,000	...	...			
		Nandavanam	18,000	...	...	18,000	...	...			No. 334 of 27th July 1892.
	Kāvali	Vedullacheruvu	9,000	...	...	...	9,000	...	...		
		Kāvali	2,933	...	...	...	2,933	...	...		
		Mungamore	94	...	...	...	94	...	...		
		Kadanutla	289	...	...	...	289	...	...		
		Talapalem	761	...	...	...	761	...	...		
		Kāvali	1,511	...	...	...	1,511	...	...		
		Kolladinne	561	...	...	...	561	...	...		
		Musunur	1,014	...	...	...	1,014	...	...		
		Anamadugu	941	...	...	...	941	...	...		
		Chennayyapolliem.	1,161	...	...	...	1,161	...	...		
		Tammalapenta	2,476	...	...	...	2,476	...	...		
	Rudrakota	343	...	...	...	343	...	...			
	Udayagiri	Udayagiri Durgam.	11,280	...	...	11,280	...	...	No. 440 of 13th Sept. 1892.		
		Yerrakondas	14,080	...	...	...	14,080	...			...
		Udayagiri Veligondas.	60,140	...	...	...	60,140	...			...

* Correction of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
CENTRAL CIRCLE—cont.											
Nellore—cont.	Nellore	Nellore	2,500	...	...	2,500	...	...	No. 110 of 23rd Feb. 1893.	1,920 acres deducted at settlement and 640 transferred to reserved forest.	
	Gudur	Sriharikota and its outliers.	35,710	...	...	...	35,710	...	...	...	
		Kottapatnam Plantation.	385	...	* 1,035	...	1,420	...	...	...	
		Kottapatnam	2,500	...	...	2,500	...	...	No. 239 of 26th May 1892.	500 acres deducted at settlement and 2,000 acres transferred to reserved forest.	
	Rapar	Sydapuram	2,080	...	...	2,080	...	...	No. 297 of 22nd June 1892.	450 acres deducted at settlement and 1,630 acres transferred to reserved forest.	
		Marlapudi	4,550	...	...	4,550	...	...	No. 277 of 16th June 1892.	...	
		Pategunta	1,500	...	...	1,500	...	...	No. 44 of 19th Jan. 1892.	Transferred to reserved forest.	
		Oherlopalli	3,360	...	...	3,360	...	...	No. 57 of 2nd Feb. 1892.	...	
		Veminabhi	2,080	...	* 170	2,250	...	...	No. 276 of 15th June 1892.	...	
		Yerragondas	19,000	...	...	...	19,000	...	No. 129 of 23rd March 1892.	Do.	
		Podalakur	2,500	...	...	2,500	...	...	...	...	
	Total ...		209,809	327.83	1,705	52,580	158,934	248.33	...	...	
	Cuddapah.	Rajampet	Settikunta	960	...	...	960	...	...	No. 174 of 27th April 1892.	Transferred to reserved forest.
			Cheyavaram	4,480	...	...	2,800	1,814	...	...	...
			Gottimuru	2,160	...	...	...	2,160	...	...	...
Terraguntlakota			1,320	...	...	...	1,320	...	...	...	
Tippayapalli			960	...	* 626	...	334	...	...	...	
Kodivengamabavi.			2,400	...	...	...	2,400	...	...	...	
Rajampet		Marrutla	6,400	...	...	...	6,400	...	...	...	
		Beddipalle Plantation.	518	...	...	...	518	...	...	...	
		Ananthasamudram.	6,400	...	...	...	6,400	...	...	...	
		Saipayu Ghat	2,560	...	...	...	2,560	...	...	...	
		Badugantapalle	3,520	...	...	...	3,520	...	...	...	
Rajampet and Koduru.		Vattalur Hill	320	...	...	...	320	...	...	...	
		Seethachellam and Rollamadugu.	3,840	...	...	...	3,840	...	...	...	
Rajampet and Koduru.		Salivondra	6,400	...	...	...	6,400	...	...	...	
		Chitvel*	10,240	...	...	...	10,240	...	...	...	
Rajampet and Rayachoti.	Gadikota	3,538	...	...	...	3,538	...	...	...		
	Yerrakonda	8,320	...	...	...	8,320	...	...	...		
Rajampet, Sidhout and Rayachoti.	Cheyer	11,360	...	...	...	11,360	...	...	...		
Rajampet and Sidhout.	Kanakalakonda	6,400	...	...	...	6,400	...	...	...		
	Patur	7,680	...	...	...	7,680	...	...	...		
	Kokaletikanams	14,420	...	...	...	14,420	...	...	...		
	Kothur	22,720	...	...	12,160	10,560	...	No. 598 of 12th Dec. 1892.	Transferred to reserved forest.		

* Correction of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
CENTRAL CIRCLE—cont.											
Cuddapah—cont.	Sidhout	Malliamkonda	3,840	...	...	...	3,840	...	...	No. 509 of 2nd Nov. 1892. No. 140 of 17th Mar. 1893.	Transferred to reserved forest. Do.
		Do. addition	1,280	...	...	...	1,280	...			
		Vontimitta	5,760	...	...	4,500	1,260	...			
		Konazupalle	9,600	...	* 96	9,696	...	...			
	Badvel and Sidhout.	Turupukonda	30,080	...	...	...	30,080	...	...	(a) No. 141 of 17th Mar. 1893. (b) No. 143 of 17th Mar. 1893.	(b) Notified under sec. 4.
		Ippakanama	1,600	...	...	...	1,600	...			
		Ramapuram	7,680	...	...	(a) 5,300	{ 380 (b) 2,000 }	...	(a) No. 141 of 17th Mar. 1893. (b) No. 143 of 17th Mar. 1893.	(b) Notified under sec. 4.	
		Lankamalai	112,640	...	3,920	(c) 69,760	(d) 46,800	...	(c) No. 594 of 6th Dec. 1892. (d) No. 593 of 6th Dec. 1892.		(c) Transferred to reserved forest. (d) Notified under sec. 4.
	Cuddapah and Sidhout.	Kanamalapalle	5,255	...	...	...	5,255	...	...		
	Cuddapah, Rayachoti and Sidhout.	Palkonda	81,920	...	...	...	81,920	...	...		
	Badvel	Kavalakuntla	1,600	...	...	...	1,600	...	...	(c) No. 176 of 28th Mar. 1893.		(e) Notified under sec. 4.
		Gopavaram	13,440	...	...	* 510	{ (e) 7,950 4,980 }	...	...		
		Kalasapad	6,400	...	...	...	6,400	...	...		
		Sancherla	5,760	...	...	...	5,760	...	...		
	Badvel and Proddutur.	Tsallagirigulla	1,280	...	...	...	1,280	...	...		
		Badvel	1,920	...	...	...	1,920	...	...		
		Gannapenta	3,200	...	...	...	3,200	...	...		
		Kottakota and Dase rapalle.	104,960	...	...	...	104,960	...	...		
	Cuddapah and Rayachoti.	Kanchelamoram	8,960	...	* 718	...	9,678	...	...	No. 600 of 12th Dec. 1892.	Transferred to reserved forest.
		Ganganapalle	57,600	...	...	...	57,600	...	...		
Idupalapaya		28,160	...	...	...	28,160	...	...			
Redlachervu		5,120	...	...	...	5,120	...	...			
Cuddapah and Proddutur.	Chelakampalle	6,400	...	...	...	6,400	...	...	No. 523 of 7th Nov. 1892.	Do.	
	Kommaddi	1,600	...	...	...	1,600	...	...			
	Tummalur	3,200	...	...	1,450	1,750	...	...			
	Gonamakalapalle	1,280	...	...	1,280	...	...	...			
Cuddapah and Proddutur.	Bhanakotamula	13,600	...	...	...	13,600	...	...	No. 578 of 28th Nov. 1892.	Do.	
	Mallela	5,120	...	* 1,200	...	6,320	...	...			
	Kondasankesula	4,480	...	...	2,612	1,868	...	...			
	Dabbudapalle	3,280	...	...	...	3,280	...	...			
Proddutur	Dhodiya	2,720	...	...	1,800	920	...	...	No. 204 of 11th May. 1892. No. 598 of 7th Dec. 1892.	Do.	
	Malamidikambaladinne.	3,440	...	...	3,440	...	...	...			
	Penner	640	...	...	520	120	...	...			
	Gandikota	9,920	...	...	...	9,920	...	...			
Proddutur	Yamavaram	1,600	...	...	1,600	...	...	...	No. 434 of 5th Sept. 1892. No. 591 of 12th Dec. 1892.	Do.	
	Kosinapalle	7,040	...	...	7,040	...	...	...			
	Nidijuvvi	2,880	...	...	...	2,880	...	...			2,740 acres deducted by rectification and 4,300 acres transferred to reserved forest.
	Kondapuram	3,840	...	...	...	3,840	...	...			

* By correction of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.		AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.		Acres.	Acres.	Acres.	Equivalent in square miles.		
CENTRAL CIRCLE—cont.											
Cuddapah—cont.	Rāyachōti	Sibbyala	340	...	...	...	340	...	...	No. 334 of 22nd July 1892.	
		Tsundupalle	1,480	...	...	...	1,480	...	...		
		Madhavaram	5,900	...	...	4,681	1,219	...	...		
		Brahmanayervagudi	5,760	...	...	...	5,760	...	...		
		Hussanapuram	12,160	...	...	...	12,160	...	...		
		Mudunipad slopes	5,760	...	* 3,200	...	8,960	...	...		
	Rāyachōti and Vāyalpād.	Wongimala	10,880	...	...	...	10,880	...	...	No. 576 of 28th Nov. 1892.	974 acres excluded by rectification of area and 7,986 acres transferred to reserved forest.
		Urakonda	8,960	...	...	8,960	...	...	...		
	Rāyachōti, Madanapalle and Vāyalpād.	Rekkalakonda	6,400	...	...	...	6,400	...	...	No. 518 of 7th Nov. 1892.	Transferred to reserved forest.
		Gorivikanama	28,800	...	* 1,760	30,560	...	...	...		
	Kadiri and Cuddapah.	Dorigalla	30,720	...	...	24,032	6,688	...	...	No. 514 of 31st Oct. 1892.	Do.
		Ishwaramala	15,360	...	...	...	15,360	...	...	No. 418 of 24th Aug. 1892.	Do.
	Kadiri	Kokanti	2,000	...	...	...	2,000	...	...		
		Kadiri	10,240	...	...	27,770	1,470	...	...		
	Kadiri	Nigadi and Tirumaladevarakonda.	29,240	...	...	...	...	...	...	No. 257 of 8th June 1892.	1,503 acres deducted by rectification and 34,007 acres transferred to reserved forest.
		Kukkarazukonda	2,400	...	...	25,600	2,400	...	...		
	Kadiri	Tumala	25,600	...	...	...	...	...	...	No. 9 of 19th Dec. 1892.	Transferred to reserved forest.
		Malakavomala	1,920	...	* 840	...	2,760	...	...		
	Kadiri	Tummalamala	6,400	...	* 1,810	8,210	...	...	...	No. 579 of 28th Nov. 1892.	Do.
		Kondagamerla	3,200	...	* 913	910	4,113	...	...		
Kadiri	Somasaramala, east	1,280	...	...	...	370	...	...	No. 518 of 2nd Nov. 1892.	Do.	
	Goduvolagala	1,920	...	* 548	...	2,488	...	...			
Kadiri	Tavalam	5,120	...	* 3,330	8,450	...	...	...	No. 396 of 22nd Aug. 1892.	Do.	
	Pentzupad	2,870	...	...	2,870	...	...	...			
Kadiri	Horsleykonda	15,500	...	...	15,500	...	...	...	No. 574 of 28th Nov. 1892.	Do.	
	Avalakonda	8,370	...	...	...	7,700	670	...			
Kadiri	Tsandrakonda	15,023	...	...	15,023	...	...	...	No. 419 of 24th Aug. 1892.	Do.	
	Potapoli	364	...	* 276	264	376	...	...			
Kadiri	Tarikonda	6,400	...	* 431	6,831	...	...	...	No. 39 of 19th Jan. 1893.	Do.	
	Gutapaliem	2,560	...	...	2,560	...	...	...			
Kadiri	Nurukupalakonda	8,320	...	...	8,461	359	...	...	No. 352 of 1st Aug. 1892.	Do.	
	Yellutla	4,840	...	...	...	4,840	...	...			
Kadiri	Gajjibachikona	320	...	...	...	...	...	...	No. 8 of 7th Dec. 1892.	88 acres excluded by rectification and 2,523 acres transferred to reserved forest.	
	Yerramorajedu	3,680	...	* 6,500	...	18,180	...	...			
Kadiri	Marella	7,680	...	...	...	...	...	...	No. 56 of 2nd Feb. 1892.	Do.	
	Ankalammakonda	2,900	...	* 1,840	4,640	...	...	...			
Kadiri	Nurukupalakonda	8,320	...	...	8,461	359	...	...	No. 511 of 1st Nov. 1892.	Do.	
	Yellutla	4,840	...	...	...	4,840	...	...			
Kadiri	Gajjibachikona	320	...	...	...	...	...	...	No. 207 of 11th May 1892.	Transferred to reserved forest.	
	Yerramorajedu	3,680	...	* 6,500	...	18,180	...	...			
Kadiri	Marella	7,680	...	...	...	...	...	...	No. 56 of 2nd Feb. 1892.	Do.	
	Ankalammakonda	2,900	...	* 1,840	4,640	...	...	...			

* By correction of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1st APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.		AREA ON 30th JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.		Acres.	Acres.	Acres.	Equivalent in square miles.		
CENTRAL CIRCLE—cont.											
Cuddayah—cont.	Vayalpād—cont.	Doddipalle ...	579	...	...	...	579	...	No. 111 of 23rd Feb. 1893.	940 acres excluded by rectification of area and 18,900 acres transferred to reserved forest.	
		Sorakayalapeta ...	2,560	...	* 272	2,832	...	No. 498 of 14th Oct. 1892.			
		Talakona ...	19,840	...	...	19,840	...				
	Proddatur	Bhakurapet ...	9,800	...	* 800	10,600	...	No. 474 of 5th Oct. 1892.	Transferred to reserved forest.		
		Rameswaram ...	...	...	1,200	...	1,200	No. 206 of 12th May 1892.			
	Kadiri	Balasamudram ...	...	...	245	...	245	No. 212 of 12th May 1892.			
		Kutagallu ...	...	...	718	...	718				
		Nagireddipalle ...	...	...	694	...	694				
	Madanapalle.	Nallansettipalle ...	...	...	290	...	290	No. 200 of 12th May 1892.			
		Mudigubba ...	...	...	441	...	441				
		Guogepalle ...	...	...	215	...	215				
	Kadiri and Madanapalle.	Chinnatippasamudram.	...	...	432	...	432	No. 209 of 12th May 1892.			
		Kurabulakota ...	...	...	348	...	348				
		Batlapur ...	...	...	956	...	956				
	Vāyalpād	Malakalcheruvu ...	...	...	330	...	330	No. 31 of 16th Jan. 1893.			
		Sorakayalapeta Extension.	...	...	740	...	740				
		Piler ...	...	...	396	...	396				
	Vāyalpād	Gattegadda ...	...	...	283	...	283	No. 201 of 11th May 1892.			
		Vāyalpād ...	...	...	215	...	215				
	Chingleput.	Tiruvallūr	Total ...	1,080,563	1,610.25	35,977	361,254	705,286	1,102.00	No. 201 of 11th May 1892.	
Attantangal ...			268	...	...	268	...	No. 109 of 24th Feb. 1893.	Transferred to reserved forest.		
Nayar ...			300	...	...	...	300	No. 85 of 14th Feb. 1893.	10 acres deducted at settlement and 330 acres transferred to reserved forest.		
Erumavettipalaiyam.		555	...	...	...	555					
Kavalur ...		240	...	...	240	...					
Tiruvallūr		Manali ...	1,485	...	...	1,485	...	No. 112 of 28th Feb. 1893.	Transferred to reserved forests.		
		Apasamudram ...	595	...	...	595	...				
		Kuruvithittu ...	300	...	...	300	...				
		Periyaoblapuram ...	66	...	...	66	...	No. 90 of 9th Feb. 1893.	Do.		
		Elavur ...	179	...	...	179	...				
		Chinnaoblapuram ...	65	...	...	65	...				
		Siruvallipettai, A	105	...	...	105	...	No. 93 of 6th Feb. 1893.			
		Do. B ...	54	...	...	54	...	No. 92 of 9th Feb. 1893.			
		Budur ...	86	...	...	86	...	No. 84 of 6th Feb. 1893.			
		Siruvadu ...	373	...	...	373	...	No. 34 of 16th Jan. 1893.			
Nemalur ...		980	...	...	980	...	1 acre deducted at settlement and 161 acres transferred to reserved forest.				
Irukulam ...		776	...	...	776	...					
Kuvakolli ...		228	...	...	228	...					
Tiruvallūr		Nelvoyi ...	162	...	...	162	...	No. 87 of 9th Feb. 1893.	Transferred to reserved forest.		
		Kalathur ...	212	...	...	212	...				

* Correction of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
CENTRAL CIRCLE—cont.										
Chingleput—cont.	Tiruvallūr—cont.	Nayapakkam, A ...	1,421	...	...	...	1,421	...	No. 86 of 9th Feb. 1893.	1 acre excluded at settlement and 164 acres transferred to reserved forest.
		Do. B ...	164	...	...	164	...			
		Do. C ...	105	...	...	105	...			
		Gódalúr ...	2,744	...	...	2,744	...			
	Chingleput ...	Mambakkam	766	...	...	766	...	No. 89 of 14th Feb. 1893.	40 acres deducted by rectification and 736 transferred to reserved forest.	
		Melamaiyyur ...	49	...	...	...	49	...	...	
		Achcharapakkam. {	1,025	{	...	...	1,025	{	...	
		Lattur ...	1,011	...	...	...	1,011	...	...	
		Nedumaram ...	198	...	...	...	198	...	...	
		Venmani ...	238	...	...	...	238	...	...	
		Madayambakkam ...	241	...	...	...	241	...	...	
		Sattamai ...	135	...	...	...	135	...	...	
		Kattagudalur ...	2,064	...	...	...	2,064	...	...	
		Rajupalliam ...	1,805	...	...	...	1,805	...	...	
		Kurumburai ...	680	...	...	...	680	...	...	
		Endathur ...	56	...	...	...	56	...	...	
		Tandalam, A and B	237	...	...	...	237	...	...	
		Sirumallur ...	192	...	...	...	192	...	...	
		Kannimangalam ...	271	...	...	...	271	...	...	
Nariamputtur ...	11	...	...	...	11	...	...			
Karukoli ...	855	...	...	...	855	...	...			
Kadalamangalam ...	242	...	...	...	242	...	...			
Vadatanur ...	467	...	...	...	467	...	...			
Vinayaganallur ...	187	...	...	...	187	...	...			
Kunamkolattur ...	142	...	...	...	142	...	...			
Boppanallur ...	326	...	...	...	326	...	...			
Muttukadu ...	600	...	...	...	600	...	...			
Indalur ...	781	...	...	...	781	...	...			
Poraiyur ...	1,078	...	...	...	1,078	...	...			
Gódalúr ...	127	...	...	...	127	...	...			
Puragal ...	106	...	...	...	106	...	...			
Kaliyalam ...	538	...	...	...	538	...	...			
Oratti ...	86	...	...	...	86	...	...			
Irumbili ...	424	...	...	...	424	...	...			
Extension of Kolattur.	123	...	...	...	123	...	...			
Extension of Kayar.	1,385	...	...	...	1,385	...	...			
Saidapet ...	Madambakkam	307	...	...	307	...	...			
	Badur, A ...	1,165	...	...	1,165	...	...			
Tiruvallūr ...	Do. B ...	348	...	...	348	...	...			
	Irakulam Extension 1.	285	...	...	285	...	...			
	Sathiavedu Extension 1.	87	...	...	87	...	...			
	Sathiavedu Extension 2.	470	...	...	470	...	...			
	Sathiavedu Extension 3.	567	...	...	567	...	...			
No. 336 of 25th July 1892.										
No. 403 of 22nd Aug. 1892.										
No. 336 of 25th July 1892.										

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1st APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and Date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
CENTRAL CIRCLE--cont.										
Chingleput--cont.	Tiruvallur.	Budur Extension I.	...	...	10	...	10	...	{	No. 336 of 25th July 1892.
		Nemalur Extension I.	...	...	99	...	99	...		
		Sengiagaram	...	...	324	...	324	...	No. 64 of 2nd Feb. 1893.	
		Rajallah	...	...	131	...	131	...	No. 80 of 12th Feb. 1893.	
		Mopoorpalli	...	...	84	...	84	...	No. 70 of 2nd Feb. 1893.	
		Kambakkam Extension I.	...	...	318	...	318	{	No. 151 of 20th Mar. 1893.	
		Do. II.	...	...	610	...	610			...
		Ambakkam Extension I.	...	...	80	...	80	...	No. 53 of 2nd Feb. 1893.	
		Do. II.	...	...	98	...	98	...	No. 50 of 2nd Feb. 1893.	
		Do. III.	...	...	204	...	204	...	No. 56 of 2nd Feb. 1893.	
		Do. IV.	...	...	235	...	235	...	No. 58 of 2nd Feb. 1893.	
		Aradur Extension I.	...	...	288	...	288	...	No. 63 of 2nd Feb. 1893.	
		Do. II.	...	...	100	...	100	...	No. 71 of 2nd Feb. 1893.	
		Kodur Extension I.	...	...	94	...	94	{	No. 65 of 2nd Feb. 1893.	
		Do. II.	...	...	170	...	170			...
		Do. III.	...	...	110	...	110	...	No. 69 of 2nd Feb. 1893.	
		Allikuli Extension I.	...	...	161	...	161	...	No. 61 of 2nd Feb. 1893.	
		Do. II.	...	...	93	...	93	...	No. 66 of 2nd Feb. 1893.	
		Do. III.	...	...	100	...	100	...	No. 62 of 2nd Feb. 1893.	
		Do. IV.	...	...	70	...	70	...	No. 67 of 2nd Feb. 1893.	
		Do. V.	...	...	99	...	99	...	No. 49 of 30th Jan. 1893.	
		Do. VI.	...	...	129	...	129	...	No. 51 of 30th Jan. 1893.	
		Do. VII.	...	...	258	...	258	...	No. 52 of 30th Jan. 1893.	
		Pulavakkam Extension I.	...	...	736	...	736	...	No. 54 of 30th Jan. 1893.	
		Do. II.	...	...	294	...	294	...	No. 57 of 30th Jan. 1893.	
		Do. III.	...	...	110	...	110	...	No. 55 of 30th Jan. 1893.	
		Do. IV.	...	...	84	...	84	...	No. 153 of 20th Mar. 1893.	
		Do. V.	...	...	101	...	101	{	No. 129 of 6th Mar. 1893.	
		Do. VI.	...	...	117	...	117			...
		Pulrambakkam Extension I.	...	...	127	...	127	...	No. 155 of 18th Mar. 1893.	
		Do. II.	...	...	295	...	295	...	No. 152 of 20th Mar. 1893.	
		Nuvalur	...	...	338	...	338	...	No. 131 of 6th Mar. 1893.	
		Valuvadur	...	...	341	...	341	...	No. 175 of 6th April 1893.	
Karanai	...	...	672	...	672	...				
Chingleput.		Tirukalikuram Extension I.	...	...	975	...	975			
		Salur	...	...	1,231	...	1,231			
		Total	31,163	48.69	10,887	5,395	36,555	57.27		

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
CENTRAL CIRCLE—cont.											
Chittoor		Veerasettipalle ...	7,587	...	...	7,587	...	...	Nos. 295 and 301 of 21st June 1892.	7,587 acres transferred to reserved forest and 300 acres excluded at settlement.	
		Chittapara ...	4,850	...	...	4,850	...	...	No. 119 of 18th Mar. 1892.	600 acres excluded at settlement and 4,850 acres transferred to reserved forest.	
		Irala ...	16,130	...	...	16,130	...	...	No. 22 of 10th Jan. 1893.	8 acres excluded at settlement and 16,132 acres transferred to reserved forest.	
		Chittoor ...	380	...	...	...	380	...	...	...	
		Bommasamudram.	1,242	...	...	1,242	...	...	No. 597 of 13th Dec. 1892.	...	
		Vavilutla	2,495	...	...	2,495	...	...	No. 19 of 2nd Jan. 1893.	...	
		Tavanampalle	2,060	...	...	2,060	...	...	No. 597 of 13th Dec. 1892.	Transferred to reserved forest.	
		Putalapattu	2,917	...	...	2,917	...	...	No. 106 of 24th Feb. 1893.	...	
		Nagapattla	8,320	...	...	...	8,320	...	...	...	
		Mungilpattu	23,040	...	...	...	23,040	...	...	...	
Chandragiri		Tirupati Hill extension.	5,840	...	...	5,840	...	...	...		
Palmanér		Pednaisdrug	12,800	...	...	12,800	...	No. 524 of 8th Nov. 1892.	12,760 acres transferred to reserved forest and 40 acres excluded at settlement.		
North Arcot.		Panamadangi ...	9,600	...	...	9,600	...	...	No. 91 of 29th Feb. 1892.	9,340 acres transferred to reserved forest and 260 acres excluded at settlement.	
		Paradarami extension.	2,500	...	...	2,500	...	...	No. 189 of 4th April 1892.	600 acres excluded at settlement and 1,900 acres transferred to reserved forest.	
		Gudiyáttam ...	Sinnagunta ...	6,400	...	...	6,400	...	...	No. 445 of 13th Sept. 1892.	Transferred to reserved forest.
		Mordana extension.	9,600	...	...	9,600	...	...	No. 236 of 29th June 1892.	2 acres excluded at settlement and 9,598 acres transferred to reserved forest.	
		Gundlapalli	8,420	...	...	8,420	...	...	...	...	
		Pallalakuppam	6,212	...	...	6,212	...	...	No. 102 of 20th Feb. 1893.	...	
		Karapattu	8,388	...	...	8,388	...	...	...	...	
		Ambur extension...	25,600	...	...	25,600	...	...	...	...	
		Arasampet	18,000	...	18,480	...	...	...	...	...	
		Attiyur ...	4,880	...	...	4,880	...	...	No. 238 of 16th May 1892.	72 acres excluded at settlement and 4,808 acres transferred to reserved forest.	
Vellore		Vellakal ...	5,280	...	...	5,280	...	...	...		

* Rectification of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1st APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30th JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
CENTRAL CIRCLE—cont.										
North Arcot—cont.	P616r	Allialamangalam ...	10,062	...	...	10,062	...	...	No. 310 of 22nd June 1892.	35 acres excluded at settlement and 10,027 acres transferred to reserved forest.
		Santhavasal ...	8,500	...	...	...	8,500	...	...	...
		Mulakadu ...	17,000	...	...	...	17,000	...	...	...
	Arcot	Sholavaram ...	1,232	...	...	1,232	...	...	No. 118 of 27th Feb. 1892.	89 acres excluded at settlement and 1,143 acres transferred to reserved forest.
		Amur ...	6,020	...	...	6,020	...	...	No. 311 of 22nd June 1892.	38 acres excluded at settlement and 5,982 acres transferred to reserved forest.
	Wálaipet	Kolatur ...	1,779	...	...	1,779	...	...	No. 89 of 5th Mar. 1892.	50 acres excluded at settlement and 1,729 acres transferred to reserved forest.
		Minnel ...	1,378	...	...	1,378	...	...	...	Abandoned.
		Ponnur ...	935	...	...	935	...	...	No. 307 of 22nd June 1892.	168 acres excluded at settlement and 769 acres transferred to reserved forest.
	Wandiwash	Nedungunam ...	1,797	...	...	1,797	...	...	No. 78 of 23rd Feb. 1892	100 acres excluded at settlement and 1,697 acres transferred to reserved forest.
		Nedungal ...	3,645	...	...	3,645	...	...	No. 512 of 1st Nov. 1892.	65 acres excluded and 3,580 acres transferred to reserved forest.
	Vellore	Javadi Hill Block, Arasampet and Naickaneri notified as Karuthamalai Block.	10,240	...	1,760	...	* 12,000	...	No. 297 of 5th June 1893.	
		Panapakam extension.	...	...	10,170	...	10,170	...	No. 522 of 4th Nov. 1892.	
	Chendragiri	Chendragiri hills ...	...	...	1,000	...	1,000	...	No. 246 of 27th April 1893.	
		Sanambathla ...	...	...	5,000	...	5,000	...		
	Palmanér	Damencherla ...	...	...	2,500	...	2,500	...		
Melmayi ...		...	...	960	...	960	...	No. 442 of 29th Sept. 1892.		
Vellore	Palmanér Reserve.	...	...	1,920	...	1,920	...	No. 223 of 26th April 1893.		
	Vellore block ...	...	...	1,000	...	1,000	...	No. 234 of 1st May 1893.		
	Kaniyambadi block ...	...	...	1,500	...	1,500	...	No. 249 of 26th April 1893.		
	Pallikonda block ...	...	...	2,000	...	2,000	...	No. 248 of 26th April 1893.		

* Notified under section 4.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
CENTRAL CIRCLE—cont.										
North Arcot—cont.	Vellore—cont.	Nellimalai block	...	...	1,500	...	1,500	...	No. 233 of 26th April 1893.	
		Paravamalai do.	...	...	4,000	...	4,000	...		
		Kylasagiri	...	...	1,200	...	1,200	...		
	Pólar	Periyamalai	...	...	5,400	...	5,400	...	No. 208 of 12th May 1892. No. 592 of 28th Nov. 1892. No. 228 of 1st May 1893.	
		Paruvadamalai	...	...	4,000	...	4,000	...		
		Santavasal extension.	...	...	260	...	260	...		
	Wallajah	Vedantagal	64	...	...	...	64	...		
		Balukrishnapuram.	63	...	...	...	63	...		
		Kattupakkam	146	...	...	...	146	...		
		Ayal	16	...	...	...	16	...		
		Banavaram	35	...	...	...	35	...		
Head Assistant Collector's office compound, Arkónam.	4	...	...	...	4	...				
Total			255,436	390.12	57,650	116,121	196,966	307.76		
South Arcot.	No. I, Tiruvannamalai.	Valnsamalai	12,738	...	...	...	12,738	...	No. 328 of 12th July 1892. No. 324 of 12th July 1892. No. 325 of 12th July 1892.	Transferred to reserved forest.
		Tennalai	50,428	...	...	50,428	...	...		
		Pelamaradur	9,148	...	...	9,148	...	...		
		Nallapattu	6,748	...	...	6,748	...	...		
		Paramanandol	1,800	...	...	6	1,791	...		
	No. II, Tindivanam.	Ravandavadi	13,333	...	...	...	13,333	...	No. 107 of 11th Mar. 1892.	Transferred to reserved forest.
		Ponniar	50,000	...	...	...	50,000	...		
		Nattampalle	7,333	...	...	...	7,333	...		
		Kadappuram	7,000	...	...	...	7,000	...		
		Kannamadai	7,000	...	...	...	7,000	...		
	No. III, Villupuram.	Padipallam	4,394	...	...	...	4,394	...	No. 206 of 11th May 1892. No. 381 of 18th Aug. 1892. No. 520 of 8th Nov. 1892. No. 589 of 12th Dec. 1892.	Do.
		Pakkam	14,894	...	...	...	14,894	...		
		Kurumpuram, 1st Bit.	500	...	...	500	...	...		
		Naduvandur	2,800	...	...	...	2,800	...		
		Panampattu	600	...	...	600	...	...		
	No. IV, Cuddalore.	Kappiyampilyur	600	...	...	660	...	...	No. 346 of 1st Aug. 1892. No. 516 of 8th Nov. 1892.	Do.
		Gangurampalaiyom	435	...	...	435	...	...		
		Pulanjimalai	600	...	...	600	...	...		
		Tandavasamudram.	2,112	...	...	1,730	2,112	...		
Ramapuram		1,730	...	...	...	...	...			
No. IV, Chidambaram.	Doni Durai	192	...	...	192	...	...	No. 447 of 13th Sept. 1892. No. 475 of 5th Oct. 1892.	Transferred to reserved forest.	
	Periyakuppam	1,683	...	...	...	1,683	...			
	Periyapattu	1,130	...	...	1,130	...	...			
		Killai	1,185	...	...	1,185	...			
Total			...	...	...	...	...	...		
92 acres excluded settlement at and 100 acres transferred to reserved forest.										

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
South Arcot—cont.	CENTRAL CIRCLE—cont.									
	No. IV, Chidambaram—cont.	Pichavaram	2,515	...	...	2,515	...	...	No. 580 of 28th Nov. 1892.	26 acres excluded at settlement and 2,489 acres transferred to reserved forest.
		Wallajah	2,820	...	...	2,820	...	...	No. 32 of 16th Jan. 1893.	50 acres excluded and 2,770 transferred to reserved forest.
		Nayanur	1,800	...	...	1,800	...	...	No. 561 of 25th Dec. 1892.	Transferred to reserved forest.
		Adukkam	2,000	...	...	2,000	...	...	No. 131 of 21st Mar. 1892.	
		Attipakam	4,500	...	...	4,500	...	...	No. 11 of 13th Dec. 1892.	
	No. V, Tirukóyilúr.	Samimalai, 1st Bit.	4,641	...	...	...	4,641	...	No. 185 of 6th May 1892.	Transferred to reserved forest.
		Do. 2nd Bit.	5,330	...	...	5,330	...	...	No. 534 of 16th Nov. 1892.	
		Siddevi	2,800	...	...	2,800	...	...	No. 120 of 27th Feb. 1893.	150 acres excluded and 8,800 acres transferred to reserved forest.
		Alwarmalai	8,950	...	...	8,950	...	...		
		Sirupakam	1,080	...	...	1,080	...	...	No. 256 of 10th June 1892.	Transferred to reserved forest.
		Edakal	3,390	...	...	3,390	...	...	No. 211 of 10th May 1892.	
		Pandur	955	...	...	955	...	...	No. 131 of 21st Mar. 1892.	
		Periebanur	650	...	...	650	...	...	No. 234 of 26th May 1892.	
		Nattanur, 1st Bit.	4,500	...	...	4,500	...	...	No. 140 of 8th April 1892.	
		No. VI, Kallakurchi.	Do. 2nd Bit.	3,800	...	...	3,800	...	...	No. 133 of 22nd Feb. 1892.	Transferred to reserved forest.
	Takarai		15,400	...	...	...	15,400	...	No. 260 of 10th June 1892.	
	Kanai		2,220	...	...	2,220	...	...	No. 444 of 12th Sept. 1892.	Transferred to reserved forest.
	Pavunjiattu		4,500	...	...	...	4,500	...	No. 263 of 10th June 1892.	
	Rangappanur		2,200	...	...	2,200	...	...		Cut off at settlement.
	Mallapuram		1,025	...	...	1,025	...	...		
	Kanankadu		3,520	...	...	130	3,390	...		Cut off at settlement.
	Kottalammalai		2,880	...	...	2,880	...	...		
	Kristnapuram		6,150	...	...	240	5,910	...		Transferred to reserved forest.
	Nangur		1,625	...	...	1,625	...	...	No. 455 of 23rd Sept. 1892.	
	No. VII, Vridhachalam.	Veppur	3,970	...	...	3,970	...	...	No. 104 of 13th Feb. 1893.	170 acres excluded and 3,800 acres transferred to reserved forest.
		Kottanur	4,100	...	...	4,100	...	...	No. 596 of 12th Dec. 1892.	220 acres excluded and 3,880 acres transferred to reserved forest.
		Narasingamangalam.	835	...	...	835	...	...	No. 438 of 7th Sept. 1892.	Transferred to reserved forest.
		Karmangudi	1,170	...	...	20	1,150	...		Cut off at settlement.
		Parur	2,660	...	...	2,660	...	...	No. 563 of 28th Nov. 1892.	
		Sanakotai	6,270	...	...	...	6,270	...		Transferred to reserved forest.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.									
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.											
CENTRAL CIRCLE—cont.																			
No. VII, Vridhachalam—cont.	Ammeri	1,350			500	850		No. 131 of 7th Sept. 1892.	Cut off at settlement.										
		Kuppanattam	840			840			Transferred to reserved forest.										
		Kattunayilur	1,590			1,590		No. 160 of 23rd Mar. 1892.	3 acres excluded and 1,587 acres transferred to reserved forest.										
	No. I, Tiruvannamalai.	Melchengam	2,000			400	1,600		No. 292 of 10th June 1892.	Cut off when proposing under section 4.									
		Pinjur	8,640				8,640			Do.									
		Munnamangalam.	4,160				4,160				Do.								
		Eruiyuralai	7,125			1,425	5,700		Do.										
		Uchimalai	3,500			120	3,400			Do.									
		Pumalai	3,200				3,200				Do.								
		Rayandapuram	7,000			70	6,930		Do.										
Sennyampettai		3,720				3,720		Do.											
Kanji		3,040				3,040				Do.									
Gongampattu		1,920				1,920			Do.										
Sorakolattur	7,600				7,600		Do.												
Devanandal	2,000			20	1,980			Do.											
Kodambai	2,000			50	1,950				Do.										
Tachampattu	2,300				2,300		Do.												
No. IV, Cuddalore.	Siruvattur	212				212				No. 241 of 26th May 1892.	Cut off when proposing under section 4.								
	Ranganadapuram.	620		80		700			Cut off when proposing under section 4.										
	Puvamkuppam	640			20	620		Cut off when proposing under section 4.											
No. IV, Chidambaram.	Adivarahanallur	1,860				1,860				No. 241 of 26th May 1892.	Cut off when proposing under section 4.								
	Nisingan	800				800			Cut off when proposing under section 4.										
	Rampakkam	635				635		Cut off when proposing under section 4.											
	Kondapuram	972				972						Cut off when proposing under section 4.							
No. V, Tirukóyilur.	Kolakudi	659				659				No. 262 of 16th May 1892.	Cut off when proposing under section 4.								
	Volandai	1,200				1,200			Cut off when proposing under section 4.										
	Sengamedu	755				755		Cut off when proposing under section 4.											
	Sittamur	1,510				1,510						Cut off when proposing under section 4.							
	Odiattur	1,696				1,696							Cut off when proposing under section 4.						
	Erappur	340			5	335								Cut off when proposing under section 4.					
	Mambakkam	480				480									Cut off when proposing under section 4.				
	Elundur	307				307										Cut off when proposing under section 4.			
	Tiruvannanallur	240				240											Cut off when proposing under section 4.		
	Kalamnadur	1,350				1,350												Cut off when proposing under section 4.	
No. VI, Kallakurichi.	Kunjaram	5,090				5,090				No. 264 of 30th May 1892.	Cut off when proposing under section 4.								
	Pachapalaiyam	1,600				1,600			Cut off when proposing under section 4.										
	Kallamedu	1,235				1,235		Cut off when proposing under section 4.											
	Rishivendiem	5,200		250		5,450						Cut off when proposing under section 4.							
	Sittalur	1,000		30		1,000							Cut off when proposing under section 4.						
	Parasakurichi	950				950								Cut off when proposing under section 4.					
	Varanjaram	900				900									Cut off when proposing under section 4.				
	Magarur	1,440				1,440										Cut off when proposing under section 4.			
	No. VII, Vridhachalam.	Periyasialur	720				720												No. 262 of 16th May 1892.	Cut off when proposing under section 4.
		Ivadaudi	650				650											Cut off when proposing under section 4.	
Sattiyam		416				416				Cut off when proposing under section 4.									
Vridhachalam tank.		192				192			Cut off when proposing under section 4.										
Kannapuram		1,800		400		2,200		Cut off when proposing under section 4.											
Narimanam		640		110		750					Cut off when proposing under section 4.								
Periyakurichi		360		10		370						Cut off when proposing under section 4.							
Velankulam		1,890				1,890							Cut off when proposing under section 4.						
Kattiyannallur		660			10	950								Cut off when proposing under section 4.					
No. II, Tindivanam.		Annamangalam			700		700									No. 209 of 20th April 1893.	Cut off when proposing under section 4.		
	Vilakkam			410		410									Cut off when proposing under section 4.				
	Melasevur, 1st Bit.			730		730												Cut off when proposing under section 4.	

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1st APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30th JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.		
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.				
CENTRAL CIRCLE—cont.												
South Arcot— cont.	No. II, Tindivanam—cont.	Melasevur, 2nd Bit.	...	...	380	...	380	...	No. 209 of 20th April 1893.			
		Edangalam	...	...	460	...	460	...				
		Olakkur	...	...	410	...	410	...				
		Perumukkal	...	...	150	...	150	...				
		Kilanjapur	...	...	340	...	340	...				
	Northern Range.	Doni Durai, North Bit.	...	...	45	...	45	...	No. 167 of 6th April 1893.			
		Total ...	407,503	636.72	4,505	145,387	266,621	416.40				
		Vettangudi	1,900	...	...	...	1,900	...			No. 450 of 22nd Sept. 1892.	Struck off.
		Talanthondi	100	...	...	100	...	...				
		Karpalam	54	...	...	...	54	...				
	Kadakkuvinnayanellur.	90	...	...	...	90	...					
	Southern Range.	Ambanur, No. I ...	134	...	...	...	134	...	No. 188 of 4th May 1892.	151 acres excluded by rectification and 4,204 acres transferred to reserved forest.		
		Do. " II ...	122	...	...	...	122	...				
		Kaliyappanallur ...	20	...	...	...	20	...				
		Kodiyakadu, Point Calimere.	4,355	...	...	4,355	...	...				
		Edangankottai ...	193	...	* 1	194	...	...			No. 51 of 27th Jan. 1892.	
		Perumagalur ...	13	...	...	...	13	...				
		Kalakudi ...	13	...	...	...	13	...				
		Muthukurichi ...	10	...	...	...	10	...				
		Anakkadu ...	10	...	...	...	10	...				
		Vattagudi ...	10	...	...	...	10	...				
		Alattur ...	10	...	...	...	10	...				
		Kennugudi, No. I.	10	...	...	...	10	...				
		Do. " II.	266	...	...	...	266	...				
		Pambathukadu ...	203	...	...	...	203	...				
Kothuvani Vakka-nathi Reserve.		53	...	...	...	53	...					
Trichinopoly.	Kallitalai	Nannilam ...	2	...	...	...	2	...				
		Melakadu ...	331	...	...	...	331	...				
		Vendayanpatti ...	231	...	...	...	231	...				
		Kambyanatham ...	65	...	...	...	65	...				
		Kurungulam No. I.	100	...	...	...	100	...				
		Do. " II.	141	...	...	...	141	...				
		Tholapuratti ...	538	...	...	...	538	...				
		Pinganmodu ...	116	...	...	...	116	...				
		Vaduvur, No. I.	57	...	...	...	57	...				
		Do. " II.	94	...	...	...	94	...				
		Do. " III.	38	...	...	...	38	...				
		Do. " IV.	133	...	...	...	133	...				
		Do. " V.	124	...	...	...	124	...				
		Do. " VI.	146	...	...	...	146	...				
		Do. " VII.	212	...	...	...	212	...				
Sorapettai ...	70	...	...	...	70	...						
Ullikottai ...	130	...	...	...	130	...						
Total ...	10,094	15.77	1	4,640	5,446	8.51						
Trichinopoly.	Kallitalai	Ettarai ...	483	...	...	...	483	...				
		Adavatur, No. I.	370	...	...	...	370	...				
		Do. " II.	331	...	...	...	331	...				
		Velur ...	382	...	...	...	382	...				
		Kotrapatti ...	211	...	...	...	211	...				
		Natarajapuram ...	109	...	...	...	109	...				
		Alandur ...	149	...	...	...	149	...				
		Adavattur ...	144	...	...	...	144	...				
		Punganur ...	281	...	...	...	281	...				
		Pudur ...	143	...	...	...	143	...				
Kallitalai	Sekkonam ...	119	...	...	...	119	...					
	Mahadenapuram ...	191	...	...	...	191	...					
	Pillapalaiyam ...	11	...	...	...	11	...					
	Vengampatti ...	103	...	...	...	103	...					

* Rectification of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
CENTRAL CIRCLE—cont.											
Trichinopoly—cont.	Kulittalai— cont.	Karuppur Reddipatti Hill.	4,112	...	...	4,112	...	...	No. 171 of 27th April 1892.	512 acres excluded at settlement and 3,000 acres transferred to reserved forest.	
		Sivayam	108	...	...	...	108	...	...		
		Neidalur	182	...	...	...	182	...	...		
		Kilamannaladu ...	131	...	...	...	131	...	...		
		Nallur and Kallai Pothaikadu.	170	...	...	...	179	...	...		
		Gudalur Pattuvade Kadu.	213	...	...	...	213	...	...		
		Summareikadu Pothuravattampatti.	189	...	...	...	189	...	...		
		Melavaliyur, Eastern block.	228	...	...	...	228	...	...		
		Melavaliyur, Western block.	426	...	...	...	426	...	...		
		Padiripatti	413	...	...	...	413	...	...		
		Perumal Pothaikadu (Vadaser and Kilavaliyur).	525	...	...	...	525	...	...		
		Chinna Pillur Dharisu.	176	...	...	...	176	...	...		
		K. Periapatti Kuppanarattimel block.	269	...	...	...	269	...	...		
		Mattagiri Thorukumedu.	455	...	...	...	455	...	...		
		Tavalavirumpatti	254	...	...	...	254	...	...		
		Vyamalai Kilkadu	203	...	...	...	293	...	...		
		Tavalavirumpatti Karum Kadu.	93	...	...	...	93	...	...		
		Sokkanathanpatti Pothai (V. Periapatti).	1,042	...	...	...	1,042	...	...		
		Amayapuram Perumaraikadu.	478	...	...	...	478	...	...		
		Pannaiyatti Perumalpothai.	240	...	...	...	240	...	...		
Mnsiri		Kombadipputti ...	321	...	...	321	...	...			
		Omandur	333	...	...	333	...	...			
		Tolayanatham and Kotharapatti.	125	...	...	125	...	...			
		Tirutalaiyur	959	...	...	959	...	...			
		Yedumalai	1,224	...	...	1,224	...	...			
		Vellakalpatti	522	...	...	522	...	...			
		Pulivalam	1,010	...	...	1,010	...	...			
		Mavalapatti	138	...	...	138	...	...			
		Visalchiammall Samudram.	3,000	...	* 3,000	6,000	...	...	No. 184 of 4th May 1892.	Transferred to reserved forest.	
		Manmalai, Kanjurmala and Uduvampattimalai.	10,000	...	...	10,000	...	...	No. 45 of 19th Jan. 1892.		
Perambalur		Kanapadi Vannad.	195	...	...	195	...	...			
		Kunnam	167	...	...	167	...	...			
		Kottavasel	221	...	...	221	...	...			
		Karsipadi	3,000	...	...	3,000	...	...	No. 180 of 29th Oct. 1891.	Struck off. Omitted to be excluded in 1891-92 report.	
		Valsiyur Plateau Do. Slope	3,840	...	...	3,840	...	...			
		Udumbiyam	500	...	...	500	...	...			
		Periyaveumalai ...	138	...	...	138	...	...			
		Tondapadi	276	...	...	276	...	...			
		Ankur	487	...	...	487	...	...			
		Malvoy	264	...	...	264	...	...			
		Nossiyam	152	...	...	152	...	...			
		Paduvettakudi ...	113	...	...	113	...	...			
		Kallakudi	123	...	...	123	...	...			

* Correction of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Acres.			Acres.	Equivalent in square miles.
CENTRAL CIRCLE—cont.										
Trichinopoly—cont.	Perambalur—cont.	Attiyur	98				98			
		Veppantatti	213				213			
		Pasumbalur Therukarai.	149				149			
		Pasumbalur Vada-karai.	240				240			
		Nunne	175				175			
		Kolattur	116				116			
		Ogalar	190				190			
		Sirukudal	166				166			
		Saturbakam	352				352			
		Kelupaliyur	229				229			
		Neikuppei, No. I.	154				154			
		Do. " II.	90				90			
		Yesanai	113				113			
		Peramattur	658				658			
		Mavalingai	260				260			
		Pulambadi, No. I.	222				222			
		Do. " II.	645				645			
		Do. " III.	133				133			
		Visvakudi	150				150			
		Mattavarai	283				288			
		Ariyur, No. I	290				290			
		Do. " II	140				140			
		Ladupuram	103				103			
		Sittalai	404				404			
		Sinnavadakarai	268				268			
		Nuttapur	175				175			
		Maikurambalur	269				269			
		Sattanavadi	214				214			
		Vengalam	361				361			
		Kalpadi	300				300			
		Venparur	1,024				1,024			
		Paravai	150				150			
	Nerkunam	1,253				1,253				
	Tevanur	258				258				
	Mettupalaiyam	539				539				
	Elambalur	214				214				
	Maravattur	261				261				
	Kanakasittur	310				310				
	Peraiyur	856				856				
	Vennarampundi	214				214				
Tiruvallandurai	197				197					
Birmadosam	273				273					
Kurumbalur	366				366					
Numbakurichi, No. I	328				328					
Do. " II	165				165					
Kilarasur	207				207					
Kilakkarai	119				119					
Veraiyur and Naduvasal.	562				562					
Naduvasal	176				176					
Sirumattur	499				499					
Udaiyarpalayam.	Karapakkam	83			83			No. 122 of 18th Mar. 1892.	Transferred to reserved forest.	
	Tiruvengalur, Nos. I to V.				136			No. 118 of 18th Mar. 1892.		
	Sattambadi, Nos. I to XI.				179			No. 123 of 18th Mar. 1892.		
	Total	55,665	86.98	3,000	27,350	31,315	48.93			
Salem.	Arur	Pattinodu	3,046				3,046			
		Nagalur	6,138				6,138			
		Thumbal	3,680				3,680			
		Manur	4,000				4,000			
		Pattinodu extension.	1,200				1,200			
Thumbal do.	4,800				4,800					

Area of Reserved Lands, 1892-93—cont.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.		
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.				
CENTRAL CIRCLE—cont.												
Salem—cont.	Atur—cont.	Jadayagounden Slope.	11,220	...	...	...	11,220	...		No. 254 of 30th May 1892.	14 acres excluded by rectification of area and 486 acres transferred to reserved forest.	
		Gangavalle	7,040	...	...	...	7,040	...	.....			
		Varagur extension.	500	...	...	500	...	...	.....			
	Salem		Kurumbapatti extension.	10,000	...	...	...	10,000	...		No. 404 of 19th Aug. 1892. No. 92 of 29th Feb. 1892. No. 510 of 2nd Nov. 1892. No. 90 of 5th Mar. 1892.	Transferred to reserved forest.
			Ramaswami Malai.	3,000	...	...	3,000	...	...	.....		
			Araṣankad	2,500	...	...	2,500	...	...	.....		
			Kapatu	3,500	...	...	3,500	...	...	.....		
			Pudupatti	7,500	...	...	7,500	...	...	.....		
			Nagaramalai	1,280	...	...	...	1,280	...	.....		
			Saniyasimalai	600	...	...	600	...	...	.....		
												
			Velattur	2,000	...	...	...	2,000	...	.....		
			Kudimaduvu	4,307	...	...	4,307	...	...	.....		
	Uttankarai		Kouramalai extension.	4,000	...	...	...	4,000	...		No. 265 of 30th May 1892. No. 397 of 22nd Aug. 1892. No. 202 of 10th May 1892. No. 255 of 30th May 1892. No. 342 of 26th May 1892. No. 519 of 7th Nov. 1892.	Transferred to reserved forest.
			Mukanur	8,000	...	...	3,840	8,000	...	.....		
			Thombakal extension.	3,840	...	...	...	...	...	.....		
			Nochikattai	7,917	...	...	7,917	...	...	.....		
			Kalnad	4,320	...	...	4,320	...	...	.....		
			Chittori extension.	2,880	...	...	2,880	...	...	.....		
			Voppambatti	8,640	...	...	8,640	...	...	.....		
			Thirthamalai	11,046	...	...	11,046	...	...	.....		
	Tirupattūr		Vellakuttai	1,152	...	...	...	1,152	...			
			Inner Javadi Block.	32,000	...	...	...	32,000	...	.....		
	Tirupattūr		Andiappanur, Now Reserve.	7,500	...	...	...	7,500	...			
			Govindapuram	2,700	...	...	2,700	...	...	.....		
	Tirupattūr and Krishnagiri.		Nandibanda	2,500	...	...	...	2,500	...			
												
	Hoār		Galigattam	6,080	...	...	6,080	...	...	No. 279 of 13th June 1892.		
			 extension	3,600	...	...	3,600	...	...	No. 280 of 13th June 1892.		
			Tali extension	4,320	...	...	4,320	...	...	No. 547 of 25th Nov. 1892.		
	Dharmapuri		Kesaraguli	6,400	...	...	6,400	...	...	No. 300 of 22nd June 1892.		Transferred to reserved forest.
			Picklimalai	6,400	...	...	6,400	...	...	No. 261 of 30th May 1892.		
			Bachanavadi	27,000	...	...	27,000	...	...	No. 398 of 22nd Aug. 1892.		
			Kelapambadi	9,500	...	...	...	9,500	...	.....		
Thoppar			7,000	...	...	7,000	...	...	No. 121 of 15th Mar. 1892.			
Dharmapuri	.....	.....	.....	...	...	.....	.....	.....	.....	Transferred to reserved forest.		
				...	...							

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.			
CENTRAL CIRCLE—cont.											
Salem—cont.	Krishnagiri	Maharajgudai	10,304	...	...	...	10,304	...	No. 30 of 16th Jan. 1893.	(a) Added by correction of area. Transferred to reserved forest.	
		Neralkota	7,040	...	(a) 100	7,140	...	...			
		Maharajgudai extension.	2,560	...	...	...	2,560	...			
	Uttankarai	Varatanapalli	2,216	...	...	...	2,216	...	...	...	
		Thattakal	867	...	...	...	867	...			
		Karungal	4,320	...	...	...	4,320	...			
		Uttankarai, New	3,200	...	...	...	3,200	...			
		Wonnagiri	2,944	...	...	...	2,944	...			
		Kallavi	4,160	...	...	...	4,160	...			
		Poyyapatti	3,488	...	...	...	3,488	...			
		Morappur	4,000	...	...	...	4,000	...			
		Harur, New	1,901	...	...	...	1,901	...			
		Kaladipatti	2,912	...	...	...	2,912	...			
	Hoār	Thenkumikota	2,368	...	...	...	2,368	...	...	...	
		Kouramalai	8,512	...	...	...	8,512	...			
		Hulibanda	7,360	...	...	...	7,360	...			
		Pani	5,856	...	...	...	5,856	...			
		Kundukottai	4,768	...	...	...	4,768	...			
	Salem	Sivanhalli	4,992	...	...	...	4,992	...	...	...	
		Vellampatti	3,500	...	...	...	3,500	...			
		Kurichi	2,300	...	...	...	2,300	...			
			Mallur	5,000	...	...	...	5,000	...	...	...
			Total	387,664	527.6	100	131,100	206,574	322.77	...	...
			Total of the Circle.	2,337,897	3,652.96	113,825	843,926	1,607,796	2,512.18	...	...
SOUTHERN CIRCLE.											
Madura.	I. Cumbum	Kombai	3,840	...	...	3,840	...	...	No. 517 of 7th Nov. 1892.	Transferred to reserved forest. (b) No. 921 of 23rd June 1892. Notified under section 4.	
		No. I, Vellaikaradu	198	...	...	(b) 198	...	...	(b) No. 921 of 23rd June 1892.		
		442	...	...	442	...	...				
		No. II, Sonaikaradu.	182	...	...	182	...	...			
		No. III, Mottaiakaradu.	320	...	* 70	...	390	...			No. 321 of 23rd June 1892.
		No. IV, Kuttaikaradu.	125	...	...	...	125	...			...
		No. V, Nagarmalai-karadu.	118	...	...	...	118	...			...
		No. VI, Perumalkovilkaradu.	640	...	...	* 211	(c) 429	...			(c) No. 298 of 15th June 1892.
		No. VII, Sanyasikovilkaradu.	283	...	...	...	283	...			...
		Nallatevanpatti	1,920	...	1,440	...	(d) 8,360	...			(d) No. 298 of 15th June 1892.
	Tangedu	Certain lands on the Lower Palni Hills lying outside the limits of certain cultivated lands and cultivable waste.	1,203	...	...	...	1,203	...	...	(e) No. 298 of 15th June 1892. (f) No. 142 of 17th March 1893. No. 278 of 15th June 1892. Notified under section 4.	
		Upper Palni Plantations.	...	...	(e) 47	(f) 47	...	...	...		
		Manjekarai	50	...	...	...	50	...	...		
		Kadavamalai	717	...	...	...	717	...	...		

* By rectification of area.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.			
SOUTHERN CIRCLE—cont.											
Madura—cont.	Tangedu—cont.	Vanjankanal	15	...	...	...	15	...	No. 298 of 15th June 1892.		
		Vattilapatti	...	...	896	...	896	...			
	II. Palni Hill.	Alayadikanal	or	2,080	...	...	2,080	...			
		Muliyur.	...	...	...	...	...	...			
	Tangedu	Chikodikanal	...	20	...	...	20	...	No. 278 of 15th June 1892.		
		Koviladi	...	224	...	...	224	...			
	Tangedu	Sirugamalai	...	160	...	...	160	...			
		Block.	...	...	...	...	...	...			
	Tangedu	Talakodikadu	...	25	...	...	...	25	...		
		Tinnikutukadu	...	1,600	...	...	1,600	...			
	Tangedu	Poliyapattimalai	...	50	...	...	...	50	...		
		Periyasholakkadu	...	...	...	...	...	...			
	Palni Hill	Elamalai	or	448	...	...	...	448	...	No. 278 of 15th June 1892.	
		Umaiya.	...	...	...	...	...	...			
	Tangedu	Nodumbarakkadu.	...	19	...	...	...	19	...	No. 278 of 15th June 1892.	
Ponyettukanal		or	134	...	...	...	134	...			
Palni Hill	Kodavanai.	...	...	...	1,085	...	1,085	...	No. 197 of 4th May 1892.		
	Karadikattu	...	...	...	...	...	...				
Tangedu	Manjapatti	...	...	...	2,560	...	2,560	...	No. 278 of 15th June 1892.		
	Kiluvamalai	...	1,920	...	80	2,000	...				
Tamil Nadu	IV. Palamedu	Tiruparangundram	960	...	...	...	960	...			
		Elephant Rock	640	...	...	...	640	...			
	Tamil Nadu	Ammanamalai	...	...	...	...	...	...			
		Mutapattimalai	...	1,600	...	...	1,600	...			
	Tamil Nadu	Vandiyoor Rock	...	...	...	...	...	...			
		Nagamalai	...	...	3,404	...	3,404	...			
	Tamil Nadu	Dhoniakaradu	...	...	1,114	...	1,114	...	No. 197 of 4th May 1892.		
		Sanglikaradu	...	...	375	...	375	...			
	Tamil Nadu	Kuppuvamedu	...	...	1,812	...	1,812	...	(a) No. 197 of 4th May 1892.		
		Puvvathukaradu	...	...	(a) 1,024	(b) 1,024	...	...			
	Tamil Nadu	Ulmanam	...	...	122	...	122	...	No. 197 of 4th May 1892.		
		Boothakadu	...	...	934	(d) 934	...	...			
	Tamil Nadu	No. I, Cumbam Valley Range	Agamalai	...	...	678	...	678	...	No. 197 of 4th May 1892.	
			Pottalakkadu	...	...	147	...	147	...		
	Tamil Nadu	Tamil Nadu	Valkaradu	...	...	716	...	716	...		
Pannymuthu			...	...	878	...	878	...			
Tamil Nadu	Tamil Nadu	radu.	...	...	836	...	836	...	No. 321 of 23rd June 1892.		
		Sungakaradu	...	...	442	...	442	...			
Tamil Nadu	Tamil Nadu	Shallimalaikaradu.	...	...	3,148	...	3,148	...	No. 197 of 4th May 1892.		
		Andipatti, N.	...	...	6,768	...	6,768	...			
Tamil Nadu	Tamil Nadu	Do. O. & S.	...	...	358	...	358	...	No. 321 of 23rd June 1892.		
		Ambakaradu, I	...	...	2,720	...	2,720	...			
Tamil Nadu	Tamil Nadu	Rajadani, II	...	...	947	...	947	...			
		Velayapatti, III	...	...	442	...	442	...			
Tamil Nadu	Tamil Nadu	Perumankovil Ka-	...	...	832	...	832	...	No. 321 of 23rd June 1892.		
		radu, IV.	...	...	2,150	...	2,150	...			
Tamil Nadu	Tamil Nadu	Shungakaradu, V.	...	...	115	...	115	...	No. 298 of 15th June 1892.		
		Munkaradu	...	...	2,896	...	2,896	...			
Tamil Nadu	Tamil Nadu	Kuvakkapatti	...	...	998	...	998	...	No. 321 of 23rd June 1892.		
		Kondrankimalai	...	...	2,400	...	2,400	...			
Tamil Nadu	Tamil Nadu	Kuobukaradu	...	...	...	...	...	...	No. 197 of 4th May 1892.		
		Bangamalai	...	...	...	...	...	...			
Tamil Nadu	Tamil Nadu	Karumalai	...	...	...	...	...	...	No. 298 of 15th June 1892.		
		Karumalai	...	...	...	...	...	...			

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Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
SOUTHERN CIRCLE—cont.										
Tinnevely.	IV. Palamedu Range.	Sirumalai, N.W. slopes.	...	...	3,230	...	3,230	...	No. 197 of 4th May 1892.	
		Beerinjikaradu	...	...	243	...	243	...		
		Sombatti Hills	...	...	2,420	...	2,420	...	No. 235 of 13th May 1892.	
		Ponnemalai	...	...	998	...	998	...	No. 197 of 4th May 1892.	
		Sirumalai, N.E. slopes.	...	...	1,075	...	1,075	...	No. 321 of 23rd June 1892.	
		Parayankaradu	...	...	557	...	557	...	No. 197 of 4th May 1892.	
		Usilampatti	...	...	224	...	224	...	No. 298 of 15th June 1892.	
		Mundigamalai	...	...	557	...	557	...	No. 235 of 13th May 1892.	
		Kannattimalai	...	...	288	...	288	...	No. 298 of 15th June 1892.	
		Moookaradu	...	...	275	...	275	...	No. 321 of 23rd June 1892.	
		Sannamalai	...	...	480	...	480	...	No. 235 of 13th May 1892.	
		Perumalmalai, III.	...	...	525	...	525	...		
		Nedumalai	...	...	1,088	...	1,088	...	No. 235 of 13th May 1892.	
		Sakkimangalam	...	...	978	...	978	...		
		Perumalmalai	...	...	1,056	...	1,056	...	Do.	
		Vellamalai	...	...	550	...	550	...		
		Pappamalai	...	...	352	...	352	...	No. 197 of 4th May 1892.	
		Erakalamalai	...	...	4,000	...	4,000	...		
		Thoppaswamy Ma-	...	...	7,281	...	7,281	...	No. 298 of 15th June 1892.	
	lai.	...	...	1,760	...	1,760	...			
	Munglikaradu	...	...	435	...	435	...	No. 321 of 23rd June 1892.		
	Bodumalai	...	...	512	...	512	...			
	Stakkaradu	...	...	141	...	141	...	No. 197 of 4th May 1892.		
	Nachukaradu	...	...	166	...	166	...			
	Sigankaradu	...	...	1,498	...	1,498	...	No. 235 of 13th May 1892.		
	Muthugamalai	...	...	941	...	941	...			
	Nedumkutte	...	...	397	...	397	...	No. 321 of 23rd June 1892.		
	Sethur Nedumalai.	...	...	816	...	816	...			
	Chinnappattikaradu.	...	...	147	...	147	...	No. 197 of 4th May 1892.		
	Chitrakuttur	...	...	4,000	...	4,000	...			
	Kodangikattu	...	...	794	...	794	...	No. 235 of 13th May 1892.		
	Mamalai	...	...	486	...	486	...			
	Simmattukaradu	...	...	1,894	...	1,894	...	No. 298 of 15th June 1892.		
Karumalai	...	...	1,248	...	1,248	...				
Velacheripatti Hills	...	...	339	...	339	...	No. 235 of 13th May 1892.			
Packrettimalai Hills	...	...	1,005	...	1,005	...				
Vellimalai Nedu-	...	...	410	...	410	...	No. 235 of 13th May 1892.			
malai.	...	...	673	...	673	...				
Ottarankutta	...	...	512	...	512	...	No. 321 of 23rd June 1892.			
Kaluvudi Malai	...	...	147	...	147	...				
Vatamalai	...	...	428	...	428	...	No. 321 of 23rd June 1892.			
Mangalapatti Ka-	...	...	154	...	154	...				
radu.	...	...	...	...	...	...				
Scoragattupatti	...	...	...	...	...	...				
Karadu.	...	...	...	...	...	...				
Malayandikattu	...	...	...	...	...	...				
Total			19,938	31.14	89,170	8,056	101,047	157.80		
Tinnevely.	Tonkarai	Kudirimalai	13,393	...	...	13,393	...	...	No. 309 of 21st June 1892.	
	Ottappidaram	Vaippar	813	...	...	...	813	...		
	Total			14,206	22.19	...	13,393	813			1.27

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
SOUTHERN CIRCLE—cont.										
North Coimbatore.	Satyamsangalam.	Gutialatur Do. Extension.	179,200	...	5,760	...	179,200	5,760	No. 298 of 8th June 1893.	
	Talamalai	Talamalai Extension.	...	...	3,840	...	3,840	...		
	Kollegal	Yedaralli and Pon-nachi.	485,200	...	...	...	...	...	(a) No. 295 of 7th June 1893, section 4.	(a) Area reserved.
		Doddasampagai Extension.	(a) 3,200	...	...	142,080	384,080	...		
	Bhavani	Cowdally Block	18,000	...	...	...	...	...	...	...
		Hannur Block	21,700	...	...	...	...	...		
	Erode	Palamalai	28,160	...	...	...	28,160	...	...	...
		Burgur, North and South.	191,360	...	...	...	215,040	...		
	Karur	Karavalli	27,927	...	...	...	27,927	...	No. 320 of 9th July 1892.	Transferred to reserved forest.
		Thalanthupatti	59	...	...	59	...	No. 169 of 27th April 1892.		
		Molaiyalaiyam	143	...	...	103	143	...	No. 302 of 22nd June 1892.	Do.
		Thottiyavadi	193	...	...	168	...	...	No. 521 of 7th Nov. 1892.	11 acres excluded and 127 acres transferred to reserved forest.
		Thalapatti	168	...	...	81	...	...	No. 169 of 27th April 1892.	Transferred to reserved forest.
		Punjaisikalakurichi.	81	...	...	118	...	...	No. 302 of 22nd June 1892.	
		Modukkur	118	...	...	212	...	...	No. 169 of 27th April 1892.	Transferred to reserved forest.
		Inanganur	212	...	...	112	...	...	No. 573 of 6th Dec. 1892.	
		Komarapalayam	112	...	...	1,708	...	...	No. 302 of 22nd June 1892.	7 acres excluded and 98 acres transferred to reserved forest.
		Vandalimalai and Ranganimalai.	1,708	...	...	100	...	...	No. 345 of 27th July 1892.	
	Dhárāpūram	Kakkavadi Pichan-patti.	179	...	...	179	...	...	No. 488 of 7th Oct. 1892.	Transferred to reserved forest.
		Nerur	181	...	...	131	...	...	No. 486 of 12th Oct. 1892.	
		Maravapalayam	84	...	...	...	84	...	No. 340 of 1st Aug. 1892.	Transferred to reserved forest.
		Sivamalai	100	...	...	...	...	...	No. 350 of 1st Aug. 1892.	
		Nadukandamodu	218	...	...	218	...	...	No. 577 of 28th Nov. 1892.	Do.
		Uthiyur	1,024	...	...	66	1,024	...	No. 363 of 11th Aug. 1892.	
		Pallakalipalayam.	66	...	...	...	...	...	No. 351 of 1st Aug. 1892.	13 acres excluded and 164 acres transferred to reserved forest.
Sottipalayam		95	...	...	95	...	...	No. 133 of 6th Mar. 1893.		
Ganapathipalayam		80	...	...	80	...	...	No. 825 of 8th July 1892.	(b) Added by rectification of area. Transferred to reserved forest.	
Ponnapuram, 1st Bit.		272	...	...	272	...	...			
Ponnapuram, 2nd Bit.	179	...	...	179	...	...				
Kangayampalaiyam.	177	...	...	177	...	...				
Selambampalaiyam.	177	...	...	177	...	...				
Dhárāpūram	Ganapathy	432	...	...	432	...	...			
	Thalayaipetnam	434	...	...	...	434	...			
	Sennakalpalaiyam, 1st Bit.	108	...	...	...	108	...			
	Sennakalpalaiyam, 2nd Bit.	101	...	(b) 1	102	...	...			

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.	
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.			
SOUTHERN CIRCLE—cont.											
North Coimbatore—cont.	Dhárápúram—cont.	Pulikalikaradu	409	...	(a) 10	419	...	...	No. 134 of 6th Mar. 1893.	(a) Added by rectification. Transferred to reserved forest.	
		Underapatty, 1st Bit.	117	...	...	117	...	...	No. 345 of 27th July 1892.	Transferred to reserved forest.	
		Underapatty, 2nd Bit.	143	...	...	143	...	...			
		Manakodevu	323	...	...	323	...	...	No. 492 of 7th Sept. 1892.	3 acres excluded and 87 acres transferred to reserved forest.	
		Puthur	70	...	...	70	...	...	No. 20 of 9th Jan. 1893.		
		Kullakalipalayam.	89	...	...	89	...	...	No. 575 of 7th Dec. 1892.		
		Akkarapalayam, 1st Bit.	64	...	...	64	...	...	No. 399 of 18th Aug. 1892.	Transferred to reserved forest.	
		Akkarapalayam, 2nd Bit.	87	...	...	87	...	...			
		Thattanmedu	80	...	...	80	...	...	No. 349 of 1st Aug. 1892.		
		Munjampatti	203	...	...	...	203	...	No. 349 of 1st Aug. 1892.	(b) Added by rectification. Transferred to reserved forest.	
		Yethelamalai	64	...	(b) 11	65	...	...			
		Attamalai	646	...	...	646	...	...	No. 15 of 10th Jan. 1893.	Transferred to reserved forest.	
		Periamanimalai	963	...	...	...	963	...	No. 349 of 1st Aug. 1892.	Do.	
		Semmadaliparai	250	...	...	36	214	...			
		Mammedi	183	...	...	183	...	...	No. 130 of 6th Mar. 1893.		
		Iyempalayam	116	...	...	116	...	...	No. 349 of 1st Aug. 1892.		
		Punnakkal	563	...	...	...	563	...	No. 10 of 22nd Dec. 1892.	Do.	
		Pulamvulasu	187	...	...	...	187	...			
	Kannimarkoil	84	...	...	84	...	...	No. 349 of 1st Aug. 1892.			
	Punjathalaiyur	58	...	...	58	...	...	No. 10 of 22nd Dec. 1892.			
	Vellakoil	55	...	...	55	...	...	No. 349 of 1st Aug. 1892.			
			Total	937,957	1465.55	9,612	149,644	797,925	1246.76	No. 497 of 17th Oct. 1892.	
	South Coimbatore.	Palladam	Alatur	237	...	...	237	...	...		
			Ammapalayam	119	...	...	119	...	...		
Arasur			94	...	...	94	...	...			
Asanellipalayam			160	...	...	160	...	...			
Avanashi			55	...	...	55	...	...			
Ichipatti			639	...	...	639	...	...			
Iduvai			94	...	...	94	...	...			
Ittivorampalayam.			581	...	...	581	...	...			
Kadirampalayam.			185	...	...	185	...	...			
Kaduvettipalayam.			80	...	...	80	...	...			
Kalipalayam			123	...	...	123	...	...			
Kandampalayam.			92	...	...	92	...	...			
Kaniyampalayam.			156	...	...	156	...	...			
Kaniyur			813	...	...	813	...	...			
Karadibavi			50	...	...	50	...	...			
Karasindur			92	...	...	92	...	...			
Karavalar	522	...	...	522	...	...					
Korumbapalayam.	299	...	...	299	...	...					
Korumattampatti.	292	...	...	292	...	...					
Kodanjipalayam	121	...	...	121	...	...					
Kuppandapalayam.	69	...	...	69	...	...					
Kuttagam	582	...	...	582	...	...					

* The difference of an acre between the closing balance of 1891-92 and the opening balance for 1892-93 is due to an error in calculation.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANS- FERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equiva- lent in square miles.			Acres.	Equiva- lent in square miles.		
SOUTHERN CIRCLE—cont.										
South Canara—cont.	Palladam— cont.	Mangarasuvilai- yampalayam ...	271	...	...	...	271	...	...	
		Moparipalayam ...	163	...	...	...	163	...	...	
		Narasapuram ...	556	...	...	...	556	...	...	
		Narayampalli ...	51	...	...	...	51	...	...	
		Nilambur ...	113	...	...	...	113	...	...	
		Papakulam ...	103	...	...	...	103	...	...	
		Paruvai ...	76	...	...	...	76	...	...	
		Pattampalaiyam ...	79	...	...	...	79	...	...	
		Perumanallur ...	159	...	...	...	159	...	...	
		Perunkarunsipala- yam.	53	...	...	...	53	...	...	
		Pudupalaiyam ...	793	...	...	...	793	...	...	
		Palippar ...	72	...	...	...	72	...	...	
		Puluvapatti ...	111	...	...	...	111	...	...	
		Pumalur ...	291	...	...	...	291	...	...	
		Rakkiyapalayam ...	278	...	...	...	278	...	...	
		Samalapuram ...	52	...	...	...	52	...	...	
		Settipalaiyam ...	159	...	...	...	159	...	...	
		Sennoripalayam ...	75	...	...	...	75	...	...	
		Sokkanur ...	132	...	...	...	132	...	...	
		Sokkampalayam ...	479	...	...	...	479	...	...	
		Tundakarampala- yam.	83	...	...	...	83	...	...	
		Tattianur ...	289	...	...	...	289	...	...	
		Tekkatur ...	389	...	...	...	389	...	...	
		Taranallur ...	82	...	...	...	82	...	...	
		Talukamuttur ...	60	...	...	...	60	...	...	
		Uppilpalayam ...	99	...	...	...	99	...	...	
		Vadugapalayam ...	57	...	...	...	57	...	...	
		Do.	293	...	...	...	293	...	...	
		Vallipuram ...	52	...	...	...	52	...	...	
		Velampalayam ...	81	...	...	...	81	...	...	
		Do.	75	...	...	...	75	...	...	
		Virapandi ...	175	...	...	...	175	...	...	
	Udamalpet	Jambumalai ...	...	...	2,760	...	2,760	...	No. 114 of 20th Feb. 1893.	
		Andigoundanur ...	...	...	542	...	542	...		
		Elayamthur ...	...	...	790	...	799	...		
		Dhalli ...	...	...	761	...	761	...		
	Total ...		11,266	17.50	4,862	...	16,118	25.18		
Nalgonda.	Sigur ...	Sigur ...	41,127	...	...	...	41,127	...	No. 80 of 15th Jan. 1892.	
		Nanjanad ...	888	...	...	...	888	...		
		Red Hills ...	48	...	...	...	48	...		
		Keradamund ...	276	...	...	...	276	...		
	Ootacamund...	Bigulihalla ...	46	...	...	...	46	...	No. 66 of 13th Feb. 1892.	
		Yadakad ...	117	...	...	...	117	...		
		Nanjanad addition, No. I.	9	...	...	...	9	...		
		Nanjanad addition, No. II.	8	...	...	...	8	...		
	Coonoor	Nanjanad addition, No. III.	10	...	...	...	10	...	No. 28 of 15th Jan. 1892.	
		Honnathalai (South).	214	...	...	...	214	...		
		Rallia ...	382	...	...	...	382	...		
		Teppakuhi ...	115	...	...	...	115	...		
Coonoor	Naduhatti ...	476	...	...	...	476	...	No. 130 of 21st Mar. 1892.		
	Yercandhalla ...	18	...	...	...	18	...			
	Konakarat Slopes.	1,864	...	...	...	1,864	...			
								No. 79 of 23rd Feb. 1893.		
								No. 113 & 114 of 15th Mar. 1893.		
								No. 152 of 12th April 1892.		

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
SOUTHERN CIRCLE—cont.										
Nalgonda—cont.	Coonoor—cont.	Vagapanai ...	2,648	...	...	2,648	...	...	No. 152 of 12th April 1892.	Rectification of area. Rectification of area. Struck off list. Reserved in under sect. 26.
		Denad ...	2,073	...	...	2,073	...	...		
		Madanad ...	723	...	...	723	...	...		
		Kodanad Valley ...	294	...	...	294	...	...		
		Nedugula ...	89	...	...	89	...	...		
		Jakanare Slopes ...	6,419	...	...	6,419	...	...		
		Pillur Slopes ...	2,332	...	...	...	2,332	...		
		Pakasuramalai ...	625	...	...	625	...	...		
		Pillur Shola ...	39	...	...	39	...	...		
		Kullear ...	226	...	...	226	...	...		
		Sutton Shola addition.	38	...	...	38	...	...		
		Kolakombo ...	830	...	...	77	753	...		
		Taimalai Shola ...	50	...	...	50	...	...		
		Tudur Shola ...	24	...	...	24	...	...		
		Melur Slopes ...	4,429	...	124	...	4,553	...		
		Osatti ...	152	...	...	152	...	...		
		Koderu ...	21	...	...	9	21	...		
		Kilur ...	9	...	...	9	...	...		
		Ralliah Reserve addition.	3	...	...	3	...	...		
		Commanda Reserve addition.	32	...	...	32	...	...		
		Teppakuchi Reserve addition.	4	...	...	4	...	...		
		Pillur Slopes Reserve addition.	896	...	...	...	896	...		
		Mudumalai ...	Madumalai ...	46,639	...	...	...	46,639	...	
			Kumbarkolli ...	...	...	1,771	...	1,771	...	
	Sigur ...	Bonne addition ...	...	...	123	...	123	...		
		Sigur additions ...	...	...	231	...	231	...		
	Ootacamund...	Porthimund ...	...	...	6,963	...	6,963	...		
		Kundah addition, No. I.	...	...	5	...	5	...		
		Kundah addition, No. II.	...	...	20	...	20	...		
		Kundah addition, No. III.	...	...	...	...	...	...		
		Kundah addition, No. IV.	...	...	2,075	...	2,075	...		
		Hira Shige addition, No. I.	...	...	668	...	668	...		
		Hira Shige addition, No. II.	...	...	193	...	193	...		
		Todaputta lands—Todanad ...	...	...	2,142	...	2,142	...		
		Kundahs Longwood addition, No. II.	...	...	125	...	125	...		
		Paranginad ...	...	...	185	...	185	...		
		Merkunad ...	...	...	497	...	497	...		
		Total ...	114,193	178.43	15,173	17,112	112,254	175.40		

* Omitted to be shown in previous year's returns.

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.			
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.					
SOUTHERN CIRCLE—cont.													
North Malabar.	Wynaad—cont.	Palepattur ...	746	...	...	...	746	...	No. 559 of 24th Nov. 1892.	1,206 acres excluded correction of area and transferred to reserved forest.			
		Vengur ...	5,470	...	...	...	5,470	...					
		Chodlet ...	517	...	...	...	517	...					
		Karpur ...	753	...	...	...	753	...					
		Kalur ...	213	...	...	...	213	...					
		Kudrakote ...	21,502	...	...	21,446	56	...					
		Padri ...	30,468	...	...	...	30,468	...	Board's Proceedings, No. 561 of 14th Oct. 1892.	Sec. 4 notification cancelled.			
		Cardamom Forest.	13,683	...	...	...	13,683	...					
		Kanot ...	26,600	...	...	...	26,600	...					
		Chapparam ...	112	...	...	112	...	...					
		Panniyatta ...	150	...	...	150	...						
		Total ...	90,214	155.02	...	21,708	77,506	121.10					
South Malabar.	Nilambur	Nilambur Block ...	5,201	...	...	...	5,201	...	Leased forests.				
		Pokote ...	761	...	...	...	761	...					
		Panangod ...	905	...	...	...	905	...					
		Valluvasheri ...	932	...	...	...	932	...					
		Kanakut ...	669	...	...	...	669	...					
		Erumbadam ...	581	...	...	...	581	...					
		Ambelakandi ...	1	...	...	...	1	...					
		Arimbrahutamala.	322	...	...	...	322	...					
		Mangalasherpam.	11	...	...	...	11	...					
		Puttalatta and Chittarikkal paramba.	8	...	...	...	8	...					
South Malabar.	Amarampalam.	The Silent Valley.	17,280	...	...	...	17,280	...	Struck off the list.				
		Mariat ...	1,765	...	...	...	1,765	...					
		Karian ...	951	...	...	...	951	...					
		The New Amarampalam Forest.	96,000	...	...	...	96,000	...					
		Chathamkulam.	41	...	...	...	41	...					
		Karai paramba.	137	...	...	13	124	...					
		Thamburattapottai alias Pilachori Pallam.	1,000	...	...	...	1,000	...					
		Tiruvashamkannu alias Panakadam.	24,320	...	...	...	...	...					
		Block, No. II ...	12,800	...	...	...	...	...					
		Do. III (a) ...	4,480	...	...	...	68,240	...					
South Malabar.	Waluvand.	Block Nos. III (b), I and III (b), II.	16,640	...	...	...	...	...	Reserved lands under sec. 24.				
		Block Nos. IV (a), IV (b) and IV (c).	...	...	57	...	57	...					
		Beypore tope ...	...	...	45	...	45	...					
		Forest lands near Dhoni alias Flakampully Paramba.	...	...	20	...	20	...					
		Pullampully tope.	...	...	1,230	...	1,230	...					
		Echeat lands in Thiruvazhankunam.	...	...	...	...	...	...					
		Total ...	184,805	288.76	1,352	13	186,144	290.85					
		South Malabar.	Coondapoor	Harkur Block ...	858	...	...	858			...	No. 16 of 10th Jan. 1893. No. 560 of 28th Nov. 1892.	Transferred to reserved forest.
				Kasanakatte ...	262	...	...	262			...		
				Talaburane ...	611	...	...	...			611		
Gundaberpore ...	2,178			...	...	...	2,178	...					

Area of Reserved Lands, 1892-93—cont.

District.	Range.	Name of Forest.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
SOUTHERN CIRCLE—cont.										
South Canara—cont.	Coondapoor—cont.	Jennalane	657	...	...	657	...	...	No. 150 of 20th March 1893.	Transferred to reserved forest.
		Korakoppadahola. Harmanu	433	...	625	...	433 625	...	No. 191 of 7th May 1892.	Correction of area.
	Uppinangadi	Dharmastal Mundaji.	9,600	...	...	4,603	4,997	...	No. 132 of 21st March 1892.	Transferred to reserved forest.
		Charmadi Kanasadi.	12,800	..	...	...	12,800	...		
	Kasaragód	Parappa	2,560	..	...	2,560	...	...	Correction of area.	
	Coondapoor	...	139,002	...	...	139,002	...			
	Udipi	...	73,443	...	* 400	73,843	...			
	Mangalore	...	27,693	...	(2,725)	30,541	...			
	Uppinangadi	...	288,000	...	(* 123)	288,000	...			
	Kasaragód	...	38,040	...	...	38,040	...		...	
Total ..			596,137	931.47	3,873	8,940	591,070	923.54		
Total of the Circle.			1,977,701	3,090.15	124,042	218,866	1,882,877	2,941.99		
Grand Total of the three Circles.			6,018,546	9,403.97	688,007	1,745,971	4,960,582	7,750.90		

* Newly added.

ABSTRACT.

District.	AREA ON 1ST APRIL 1892.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1893.	
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.
NORTHERN CIRCLE.						
Ganjām	280,007	437.51	9,600	6,449	289,607	452.51
Vizagapatam	52,505	82.04	132,780	18,880	178,816	279.40
Goddāvari	382,886	598.25	121,849	117,699	346,000	537.87
Kistna	187,966	216.67	50,014	191,300	142,116	220.06
Anantapur	206,749	323.06	59,878	70,882	186,882	291.61
Bellary	197,636	308.81	91,488	421,265	115,488	180.37
Kurnool	445,205	695.63				
Total	1,702,948	2,660.86	450,140	682,179	1,469,909	2,290.73
CENTRAL CIRCLE.						
Nellore	209,809	327.83	1,705	52,580	158,984	248.88
Cuddapah	1,030,563	1,610.25	35,977	361,254	705,286	1,102.00
Chingleput	31,163	48.69	10,887	5,395	36,665	57.28
North Arcot	255,436	399.12	57,650	116,121	196,965	307.78
South Arcot	407,503	636.72	1,505	145,387	266,621	416.60
Tanjore	10,094	15.77	1	4,649	5,446	8.51
Trichinopoly	55,665	86.98	3,000	27,350	31,315	48.93
Salem	337,664	527.6	100	131,190	206,574	322.77
Total	2,387,897	3,652.96	1,138.25	843,926	1,507,796	2,512.18
SOUTHERN CIRCLE.						
Madura	19,933	31.14	89,170	8,056	101,047	157.89
Tinnevely	14,206	22.19		13,393	813	1.27
North Coimbatore	937,967	1,465.65	9,612	149,644	797,925	1,246.78
South Coimbatore	11,256	17.59	4,862		16,118	25.18
Nilgiris	114,198	178.48	15,173	17,112	112,284	175.40
North Malabar	99,214	156.02		21,708	77,506	121.10
South Malabar	184,805	288.76	1,852	13	186,144	290.85
South Canara	596,187	931.47	3,873	8,940	591,070	923.64
Total	1,977,701	3,090.15	124,042	218,866	1,883,877	2,941.99
Grand Total	6,018,546	9,403.97	688,007	1,745,971	4,960,542	7,760.90

District.	Number of plantations.	ON 1ST APRIL 1892.		ADDED DURING 1892-93.		ON 30TH JUNE 1893.	
		Area.	Cost.	Area.	Cost.	Total area.	Total cost.
<i>Regular plantations.</i>		ACS.	RS.	ACS.	RS.	ACS.	RS.
Northern Circle—							
Ganjām ..	..	..	..	..	..	..	..
Vizagapatam ..	..	..	..	..	..	..	..
Goddāvari ..	4	137	9,911	3	764	140	10,675
Kistna ..	16	797	26,883	(a) — 1	2,244	796	29,127
Anantapur ..	..	..	..	..	..	..	..
Bellary ..	..	..	..	..	..	..	..
Kurnool ..	..	..	..	..	..	..	..
Total ..	20	934	36,794	2	3,008	936	39,802
Central Circle—							
Nellore ..	11	2,916	2,50,441	..	3,302	2,916	2,53,743
Cuddapah ..	8	2,100	51,712	..	658	2,100	52,370
Chingleput ..	6	396.09	34,112	..	1,706	396.09	35,818
North Arcot ..	5	1,035	1,10,516	..	9,205	1,035	1,19,721
South do. ..	16	1,917.05	1,12,832	3	4,111	1,920.05	1,16,943
Tanjore ..	7	1,308	17,204	..	2,834	1,308	20,038
Trichinopoly ..	22	3,754.01	96,868	..	4,933	3,754.01	1,01,801
Salem ..	..	..	..	..	..	..	..
Total ..	74	13,426.15	6,73,685	3	28,749	13,429.15	7,00,434
Southern Circle—							
Madura ..	8	106.48	17,818	77.58	2,121	184.06	19,939
Tinnevelly ..	..	..	..	..	263	97	36,729
North Coimbatore ..	1	97	36,466	..	187	28.5	5,002
South do. ..	4	28.5	4,815	2	3,479	1,900.50	1,20,769
Nilgiris ..	19	1,887.50	1,17,290	13	336	41.50	4,804
North Malabar ..	1	41.50	4,468	..	11,619	4,199.75	2,70,349
South do. ..	16	4,069.75	2,58,730	130	372	171.88	24,615
South Canara ..	4	170.18	24,343	..	..	..	..
Total ..	53	6,398.91	4,62,830	224.28	18,377	6,623.19	4,81,207
Grand Total ..	147	20,759.06	11,73,809	229.28	48,134	20,988.34	12,21,443
<i>Cultural operations.</i>							
Northern Circle—							
Direction ..	..	..	279	..	..	..	279
Ganjām ..	4	370	2,041	33	740	403	2,781
Vizagapatam ..	..	..	..	..	..	..	..
Goddāvari ..	..	..	..	..	..	..	..
Kistna ..	6	..	2,128	..	746	..	2,874
Anantapur ..	6	52.16	897	..	45	52.16	942
Bellary ..	3	..	561	4	285	4	846
Kurnool ..	..	..	82	..	56	..	138
Total ..	18	422.16	5,988	87	1,872	459.16	7,860
Central Circle—							
Direction ..	..	..	1,141	..	16	..	1,156
Nellore ..	8	757	3,938	42	590	799	4,528
Cuddapah ..	15	593	3,135	..	441	593	3,576
Chingleput ..	..	..	..	..	..	..	..
North Arcot ..	..	..	..	..	..	..	..
South do. ..	3	1,326	1,658	..	106	1,326	1,764
Tanjore ..	20	1,155	2,069	..	60	1,155	2,129
Trichinopoly ..	10	mls. 100	30,924	..	1,238	mls. 100	32,162
Salem ..	..	..	..	..	..	..	..
Total ..	56	3,831	42,865	42	2,450	3,873	45,315
		+ mls. 100				+ mls. 100	
Southern Circle—							
Madura ..	2	..	357	..	35	..	392
Tinnevelly ..	17	2,014.20	4,294	303.92	2,495	2,318.12	6,789
North Coimbatore ..	..	..	..	..	..	..	..
South do. ..	..	..	608	..	..	..	608
Nilgiris ..	5	49	7,539	8	1,005	57	8,544
North Malabar ..	2	109	2,218	..	..	109	2,218
South do. ..	..	..	..	..	..	..	..
South Canara ..	..	..	38	..	..	..	38
Total ..	26	2,172.20	14,934	311.92	3,535	2,484.12	18,489
Grand Total ..	100	6,425.36	63,807	390.92	7,867	6,816.28	71,664
		+ mls. 100				+ mls. 100	

(a) Due to correction of area.

ANNUAL FORM No. 61.

Forest Department, Madras Presidency.

ANNUAL List of Topes and Experimental Gardens.

District.	Number.	Area.	Cost		Remarks.
			During year.	To end of year.	
Northern Circle.					
Ganjām	7	101	..	922	(a) One tope (22 acres) newly constituted.
Vizagapatam	(a) 3	78	331	457	
Goddavari	..	..	..	..	* Includes 8 acres omitted last year. (b) 3 topes sub-divided and newly named.
Kistna	7	53	184	2,438	
Anantapur	95	2,885	1,063	6,619	
Bellary	31	243	204	1,401	
Kurnool	(b) 30	182	120	9,585	
Total ..	173	3,542	1,902	21,422	
Central Circle.					
Nellore	111	1,752	..	38,044	(c) Due to correction.
Cuddapah	(c) 71	(c) 1,630	1,273	60,193	
Chingleput	(d) 11	(c) 98-99	365	9,109	(d) One newly added.
North Arcot	(e) 179	(c) 3,069	4,302	40,497	(e) Three topes (67 acres) added during the year.
South do.	(e) 98	(c) 475	96	8,967	
Tanjore	16	153	..	1,817	
Trichinopoly	17	77	18	1,817	
Salem	263	3,061	523	2,00,298	
Total ..	766	10,316-90	6,577	3,58,925	
Southern Circle.					
Madura	22	89	..	18,883	
Tinnevely	28	106	139	5,177	
North Coimbatore	133	14,032	..	29,067	
South do.	23	(c) 267-45	..	5,361	
Nilgiris	..	..	..	..	
North Malabar	1	20	188	3,394	
South do.	1	20	..	9	
South Canara	..	..	..	..	
Total ..	258	14,534-45	327	61,891	
Grand Total ..	1,197	28,392-44	8,806	4,42,238	

ANNUAL FORM No. 62.

Forest Department, Madras Presidency.

AREA of Forest Tracts protected from Fire during 1892-93.

District.	UP TO 31st MARCH 1892.		DURING DRY SEASON OF 1892-93.				Total cost up to 30th June 1893.
	Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.	
<i>Northern Circle.</i>							
	ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.
Ganjám	117,563	7,410	129,290	984	128,306	2,319	19,729
Vizagapatam	56,305	1,070	62,065	..	62,065	895	1,965
Goddavari	111,441	2,157	139,613	1,214	137,799	2,121	4,278
Kistna	134,893	7,102	134,110	3,168	220,071	2,088	9,190
Anantapur	148,271	12,611	148,271	1,007	145,210	3,622	16,133
Bellary	63,660	21,750	74,853	606	72,247	4,319	26,069
Kurnool	50,200	7,579	56,110	6,658	59,482	3,927	11,805
Total	682,333	59,978	839,717	13,637	826,080	19,191	79,169
<i>Central Circle.</i>							
Nellore	117,635	4,488	117,060	5,804	108,256	1,236	5,724
Cuddapah	459,737	43,683	528,020	100,634	427,386	9,188	52,871
Chingleput	23,861	4,312	28,878	97	23,776	751	5,063
North Arcot	558,946	23,568	629,097	9,945	619,152	7,220	30,788
South do.	130,196	8,212	130,243	2,317	127,926	1,728	9,940
Tanjore	79,693	2,848	79,660	..	79,660	184	3,032
Trichinopoly	31,629	20,060	32,782	624	32,158	1,929	21,989
Salem	..	..	..	..	..	..	..
Total	1,401,597	1,07,171	1,540,735	122,421	1,418,314	22,236	1,29,407
<i>Southern Circle.</i>							
Madura	205,233	37,750	218,737	4,800	213,937	7,822	45,572
Tinnevely	104,063	24,353	106,239	5,529	100,710	5,247	29,600
North Coimbatore	2,364	1,937	129,084	1,280	127,504	2,049	3,986
South do.	50,710	13,062	57,970	3,580	54,390	2,894	15,956
Nilgiris	190,008	21,301	223,087	3,430	219,657	1,593	22,894
North Malabar	15,408	7,938	33,482	1,275	32,187	1,835	9,773
South do.	103,344	16,796	103,474	..	103,474	2,711	19,607
South Canara	16,156	6,243	11,778	43	11,735	1,442	7,685
Total	687,313	1,29,380	883,831	19,937	863,894	25,593	1,54,973
Grand Total	2,771,243	2,96,529	3,264,283	155,995	3,108,288	67,020	3,63,549

Districts.		NEW CASES OF THE YEAR.					DISPOSED OF DURING THE YEAR.										Cases pending at close of the year.		
		Cases pending from 1891-92.	Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in places in which grazing is prohibited.	Other offences.	Total new cases of the year.	Total cases.	Convictions.		Acquittals.		Compounded.		Withdrawn.			Total.	
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.		Cases.	Persons.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Northern Circle.																			
Ganjam	136	2	172	21	36	281	366	(b) 113	319	(c) 79	295	71	244	362	7	192	614	174	
Visagapatnam	90	..	720	30	14	764	854	580	744	47	71	244	362	7	..	828	1,184	46	
Goddavari	6	..	56	3	568	632	632	225	263	30	75	13	13	..	..	268	850	364	
Kistna	171	8	496	171	34	709	880	251	830	55	329	225	708	31	103	562	2,070	318	
Anantapur	38	4	218	33	9	264	302	166	684	37	114	71	180	..	..	274	908	28	
Bellary	5	..	166	156	39	360	365	260	627	69	210	31	(e) 166	..	..	350	837	16	
Kurnool	23	3	271	71	29	374	397	215	627	138	538	35	..	..	..	388	1,831	9	
Total ..	468	17	2,098	484	729	3,328	3,796	1,760	4,093	446	1,662	619	1,429	38	110	2,862	7,294	934	
Central Circle.																			
Nellore	22	..	139	3	6	148	170	65	257	18	93	67	174	5	8	146	532	26	
Gundlupet	178	9	444	222	38	713	881	303	638	60	205	248	354	..	..	611	1,197	280	
Chingleput	25	2	36	256	4	298	323	70	94	23	49	200	481	28	26	321	653	2	
North Arcot	73	10	248	478	153	884	937	230	322	134	544	518	809	54	(d) 26	936	1,675	21	
South Arcot	491	1	725	267	97	1,090	1,581	423	1,134	95	430	643	1,817	333	1,031	1,394	4,412	187	
Tanjore	3	..	38	18	2	56	59	9	28	4	7	30	87	9	53	52	175	7	
Trichinopoly	63	..	401	497	48	946	1,004	100	234	(d) 65	134	741	1,337	..	..	906	1,705	103	
Salem	(a) 32	39	532	297	165	1,033	1,065	502	1,521	130	867	302	1,003	88	407	1,022	3,788	43	
Total ..	887	61	2,561	2,033	513	5,168	6,055	1,702	4,298	529	2,829	2,639	6,065	517	1,525	5,387	14,147	668	
Southern Circle.																			
Madras	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Timor: Under Forest Act	(a) 18	2	78	..	25	105	105	40	89	49	188	1	(e) 91	4	(e) 32	94	277	11	
Timor: Under Penal Code	(d) 9	..	169	..	1	405	423	289	470	72	149	37	..	15	..	413	742	10	
North Coimbatore	49	2	35	..	106	329	378	65	192	33	119	172	538	..	..	260	871	109	
South Coimbatore	46	6	167	214	51	438	484	155	510	24	107	238	848	34	82	451	1,647	23	
Nilgiris	36	5	73	105	23	206	242	37	75	14	61	145	356	19	79	215	671	27	
North Malabar	..	1	58	7	21	64	64	13	21	3	7	37	72	..	..	53	100	11	
South Malabar	..	..	3	..	..	10	11	9	17	1	1	1	..	..	..	11	20	..	
Malabar: Under Forest Act	..	..	656	..	1	4	4	2	4	2	3	..	..	..	..	4	7	..	
Malabar: Under Penal Code	..	6	..	..	171	831	880	410	543	65	165	194	298	31	49	700	1,945	160	
South Canara	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Total ..	201	23	1,224	765	407	2,409	2,610	1,019	1,953	273	831	825	2,205	112	264	2,229	5,253	381	
Grand Total ..	1,556	101	5,883	3,273	1,649	12,461	12,461	4,481	10,274	1,247	4,822	4,083	9,699	667	1,899	10,478	26,694	1,932	
(a) Correct figures as now reported by the Collector.																			
(b) The number of persons involved had not been stated.																			
(c) Includes 23 cases compounded.																			
(d) Includes 9 cases withdrawn.																			
(e) Includes 26 cases withdrawn.																			

(d) Correct figures as now reported by the Collector.

(e) The number of persons involved has not been stated.

(f) Includes 23 cases compounded.

(g) Includes 26 cases withdrawn.

(h) Includes 9 cases withdrawn.

ANNUAL FORM No. 64.

Forest Department, Madras Presidency, Northern Circle.

Summary of Revenue of the different districts for 15 months ending 30th June 1893.

Budget heads.	Direction.	Ganjam.	Visagapatnam.	Goddavari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.
Receipts.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government Agency -									
(a) Timber ..	..	4,286	24	14,898	431	2,873	3	44	22,669
(b) Firewood and charcoal ..	..	21	4	534	5,799	457	979	..	7,794
(c) Bamboos ..	..	5	..	..	..	323	..	..	328
(d) Sandal-wood ..	..	..	..	..	..	..	..	..	..
(e) Grass and other minor produce ..	178	1	..	276	9	934	100	130	1,628
II. Timber and other produce removed from the forests by consumers or purchasers -									
(a) Timber ..	..	17,999	2,519	29,471	21,875	37,204	7,980	6,458	1,23,506
(b) Firewood and charcoal ..	..	7,753	6,988	10,882	13,849	9,036	4,645	2,711	56,844
(c) Bamboos ..	..	8,186	5,895	38,660	503	18,606	1,668	204	68,009
(d) Grazing and fodder grass ..	..	2,042	76	4,366	46,426	10,846	3,943	1,569	68,846
(e) Other minor produce ..	..	3,739	3,382	9,029	19,293	9,519	26,004	16,319	86,285
III. Confiscated drift and waif-wood ..	..	689	170	4,354	273	930	134	385	8,934
IV. Revenue from forests not managed by Government									
(a) Fines and forfeitures ..	..	64	5	..	11	..	..	..	80
(b) Rents ..	328	81	90	339	475	184	35	17	1,524
(c) Other sources ..	48	267	660	3,022	2,840	1,134	967	1,414	10,342
Total Receipts ..	549	45,713	19,812	1,12,501	1,10,783	90,034	46,436	28,241	4,64,069

MADRAS,
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ANNUAL FORM No. 64.

Forest Department, Madras Presidency, Central Circle.

Summary of Revenue of the different districts for 15 months ending 30th June 1893.

Budget heads.	Direction.	Nallore.	Cuddapah.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Total.
<i>Receipts.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—										
(a) Timber ..		2	16,799	57	8,025	174	1,311	..	..	26,908
(b) Firewood and charcoal ..		39,723	282	134	23,984	3,992	3,318	14,493	94	86,020
(c) Bamboos ..		112	123	..	2,430	349	180	..	..	3,194
(d) Sandal-wood ..		..	..	..	4,980	..	1	..	..	4,981
(e) Grass and other minor produce ..		5,647	2,529	9	45	3	14	16	..	8,163
II. Timber and other produce removed from the forests by consumers or purchasers—										
(a) Timber ..		12,164	18,175	4,321	10,335	8,042	28,753	15,550	1,265	98,006
(b) Firewood and charcoal ..		2,562	19,857	10,393	33,772	28,952	31,934	14,569	8,574	1,50,813
(c) Bamboos ..		111	7,267	259	29,341	3,407	31,600	5,445	394	77,824
(d) Grazing and fodder grass ..		15,065	10,904	5,408	11,669	8,323	18,300	5,303	687	75,994
(e) Other minor produce ..		14,904	79,546	24,878	53,986	42,744	49,735	26,907	6,168	2,98,858
III. Confiscated drift and waif-wood ..		52	854	132	439	500	1,538	432	6	3,953
IV. Revenue from forests not managed by Government ..		..	..	..	..	..	..	..	..	..
V. Miscellaneous—										
(a) Fines and forfeitures ..		..	38	78	36	303	368	..	..	823
(b) Refunds ..		315	1,401	279	28	1,593	47	170	1,348	5,846
(c) Other sources ..		30	569	3,789	896	6,798	4,099	2,893	3,378	24,257
Total Receipts ..		345	92,202	1,60,492	46,688	1,88,138	1,01,235	1,66,115	87,441	8,63,580

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Forest Department, Madras Presidency, Southern Circle.

Summary of Revenue of the different districts for 15 months ending 30th June 1893.

Budget heads.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevely.	North Malabar.	South Malabar.	South Canara.	Total.
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—										
(a) Timber ..		13,376	16	40,430	5,515	6,069	19,498	39,197	10,034	1,34,134
(b) Firewood and charcoal ..		22,952	..	1,496	2,474	7,061	..	38	5,888	39,909
(c) Bamboos ..		..	..	..	49	7	..	617	6	879
(d) Sandal-wood ..		10,400	24,714	..	..	..	..	..	..	35,114
(e) Grass and other minor produce. ..		710	..	7,796	..	429	84	872	29,446	39,327
II. Timber and other produce removed from the forests by consumers or purchasers—										
(a) Timber ..		3,927	6,584	5,294	12,031	6,731	4,644	3,987	2,444	45,692
(b) Firewood and charcoal ..		1,412	12,682	14,332	8,185	45,348	16	4,922	6,109	93,007
(c) Bamboos ..		2,496	10,298	6,457	1,262	1,705	591	1,631	1,336	25,776
(d) Grazing and fodder grass ..		4,936	41,260	14,625	1,014	4,280	455	128	..	66,686
(e) Other minor produce ..		3,232	44,087	9,026	40,974	20,549	2,498	353	16,731	1,37,450
III. Confiscated drift and waif-wood ..		18	190	241	269	211	1	15	664	1,529
IV. Revenue from forests not managed by Government ..		..	..	..	..	..	..	..	..	..
V. Miscellaneous—										
(a) Fines and forfeitures ..		..	..	67	..	697	..	79	50	893
(b) Refunds ..		215	13	3	629	924	15	17	146	1,909
(c) Other sources ..		29	1,868	4,994	4,682	1,935	2,715	3,585	3,884	26,043
Total Receipts ..	244	65,840	1,44,697	1,04,876	78,835	96,462	30,517	55,441	76,738	6,48,150

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Forest Department, Madras Presidency, Northern Circle.

Summary of Expenditure of the different districts for 15 months ending 30th June 1893.

Budget heads.	Direction.	Ganjam.	Visakhapatnam.	Godavari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.
<i>A.—Conservancy and Works.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—									
(a) Timber ..	..	2,731	7	2,196	128	1,656	1	..	6,719
(b) Firewood and charcoal ..	..	..	..	529	2,690	925	729	..	4,873
(c) Bamboos ..	..	..	..	..	..	64	..	..	64
(d) Sandal-wood ..	..	..	..	..	..	..	..	..	..
(e) Grass and other minor produce ..	..	..	113	789	2	427	118	118	1,565
II. Timber and other produce removed from the forests by consumers or purchasers ..	194	4,339	2,516	8,440	4,845	9,897	1,034	1,808	32,762
III. Confiscated, drift and waif-wood ..	..	1,111	24	1,328	31	29	9	..	2,530
IV. Revenue from forests not managed by Government ..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests, and payments to share-holders in forests managed by Government ..	..	..	..	..	..	12,500	..	..	12,500
VI. Live-stock, stores, tools and plant—	..	..	..	..	..	..	..	..	..
(a) Purchase of cattle ..	..	..	..	..	..	..	..	..	..
(b) Feed and keep of cattle ..	870	1,414	41	701	..	..	..	..	3,116
(c) Stores, tools and plant ..	2	144	479	396	274	91	128	..	1,515
VII. Communications and buildings—	..	..	..	..	..	..	..	..	..
(a) Roads and bridges ..	..	1,816	..	629	1,900	2,968	281	665	7,859
(b) Buildings ..	..	2,880	248	1,640	1,251	4,741	225	810	11,754
(c) Other works ..	..	88	..	131	274	71	..	..	659
VIII. Demarcation, improvement and extension of forests—	..	..	..	..	..	..	..	..	..
(a) Demarcation ..	..	1,762	1,068	1,348	2,289	611	1,533	1,769	10,230
(b) Compensation for land and rights ..	..	..	25	107	81	..	327	306	796
(c) Surveys and working plans ..	81	908	367	1,394	1,517	1,358	840	1,710	8,116
(d) Plantations ..	..	740	331	764	3,174	176	489	1,108	6,782
(e) Protection from fire ..	..	2,319	895	2,121	2,068	3,927	4,319	3,522	19,191
(f) Other works ..	..	607	7	..	2,514	64	1,798	158	5,078
IX. Miscellaneous—	..	..	..	..	..	..	..	..	..
(a) Refunds ..	..	20	9	671	871	114	529	78	2,292
(b) Law charges ..	3	79	..	1	53	..	49	..	184
(c) Other charges ..	80	43	2	95	1,264	60	18	..	1,513
Total A.—Conservancy and works..	1,129	20,846	6,121	23,168	24,646	27,179	24,848	12,059	1,39,996

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ANNUAL FORM No. 64.

Forest Department, Madras Presidency, Central Circle.

Summary of Expenditure of the different districts for 15 months ending 30th June 1893.

Budget heads.	Direction.	Nellore.	Cuddapah.	Chingleput.	North Arcot.	South Arcot.	Salom.	Trichinopoly.	Tanjore.	Total.
<i>A.—Conservancy and Works.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—										
(a) Timber ..	..	27	1,715	10	2,668	48	1,393	97	..	5,958
(b) Firewood and charcoal ..	..	29,143	682	31	13,762	2,442	2,192	7,852	..	56,104
(c) Bamboos ..	..	114	60	..	1,131	..	92	..	..	1,397
(d) Sandal-wood ..	..	..	..	..	407	11	489	..	..	907
(e) Grass and other minor produce ..	..	2,866	1,489	..	285	8	71	2	..	4,721
II. Timber and other produce removed from the forests by consumers or purchasers ..	194	938	6,678	1,663	2,481	3,117	13,467	2,413	561	31,512
III. Confiscated, drift and waif-wood ..	..	19	63	25	10	35	168	8	6	334
IV. Revenue from forests not managed by Government ..	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to share-holders in forests managed by Government ..	..	..	..	..	..	..	10	..	..	10
VI. Live-stock, stores, tools and plant—	..	..	..	..	..	..	..	..	..	..
(a) Purchase of cattle ..	..	..	38	..	..	..	..	..	..	38
(b) Feed and keep of cattle ..	..	..	..	..	..	..	..	..	..	..
(c) Stores, tools and plant ..	74	2,829	525	100	22	418	357	9	..	3,834
VII. Communications and buildings—	..	..	..	..	..	..	..	..	..	..
(a) Roads and bridges ..	..	..	1,701	175	939	750	1,915	382	..	5,882
(b) Buildings ..	..	84	2,598	158	4,985	1,982	4,573	187	37	14,604
(c) Other works ..	..	..	69	..	1,216	69	2	..	..	1,366
VIII. Demarcation, improvement and extension of forests—	..	..	..	..	..	..	..	..	..	..
(a) Demarcation ..	..	3,429	5,077	3,025	15,447	3,741	3,532	3,678	295	38,224
(b) Compensation for land and rights ..	..	..	..	..	..	..	..	..	..	..
(c) Surveys and working plans ..	..	7,200	365	45	7,310	62	2,125	..	..	17,107
(d) Plantations ..	1,578	1,023	1,280	444	1,130	1,263	1,178	320	440	8,656
(e) Protection from fire ..	15	3,892	2,372	2,071	13,507	4,313	523	6,189	2,894	35,776
(f) Other works ..	..	1,236	9,188	751	7,220	1,728	1,929	184	..	22,236
IX. Miscellaneous—	..	..	..	..	..	..	..	..	..	..
(a) Refunds ..	..	1,212	305	400	415	364	242	311	452	3,741
(b) Law charges ..	..	..	43	1	7	15	261	..	..	327
(c) Other charges ..	42	70	62	4	107	266	230	..	..	781
Total A.—Conservancy and works ..	1,903	54,370	35,060	11,689	84,394	26,571	43,145	26,957	7,138	2,91,217

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Forest Department, Madras Presidency, Southern Circle.

Summary of Expenditure of the different districts for the 15 months ending 30th June 1893.

Budget heads.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevely.	North Malabar.	South Malabar.	South Canara.	Total.
A.—Conservancy and Works.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—										
(a) Timber ..	..	2,300	5	17,377	3,792	7,830	1,328	9,698	7,795	50,125
(b) Firewood and charcoal ..	..	14,217	..	482	3,835	2,230	..	..	3,159	23,923
(c) Bamboos ..	..	..	..	..	..	18	..	8	..	31
(d) Sandalwood ..	..	664	1,826	..	..	..	..	..	..	2,790
(e) Grass and other minor produce ..	..	261	1	5,101	..	108	9	345	16,977	22,802
II. Timber and other produce removed from the forests by consumers or purchasers ..	194	1,594	9,044	4,575	2,065	4,984	102	95	4,303	26,915
III. Confiscated drift and waif-wood ..	..	11	45	12	23	18	..	1	11	121
IV. Revenue from forests not managed by Government ..	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests, and payments to shareholders in forests managed by Government ..	..	9,000	..	3,760	..	..	..	1,885	..	14,635
VI. Live-stock, stores, tools and plant—										
(a) Purchase of cattle ..	..	..	..	333	..	..	443	629	..	1,405
(b) Feed and keep of cattle ..	..	1,248	..	4,918	230	..	3,340	7,700	..	17,436
(c) Stores, tools and plant ..	30	574	189	405	669	531	602	367	300	3,667
VII. Communications and buildings—										
(a) Roads and bridges ..	..	1,136	5,480	1,296	2,891	11,305	1,004	453	..	23,555
(b) Buildings ..	..	2,186	3,575	4,829	10,230	9,766	1,624	568	239	33,037
(c) Other works ..	..	144	..	504	551	431	38	52	..	1,710
VIII. Demarcations, improvement and extension of forests—										
(a) Demarcation ..	..	2,302	3,664	3,469	10,744	2,817	1,084	52	1,218	25,350
(b) Compensation for land and rights ..	..	2,280	..	..	20	38	3,140	2	..	5,480
(c) Surveys and working plans ..	57,891	1,047	624	817	431	2,656	102	172	2,497	66,237
(d) Plantations ..	..	4,484	263	187	2,155	2,634	524	11,619	372	22,239
(e) Protection from fire ..	..	1,593	2,049	2,894	7,822	5,247	1,835	2,711	1,442	25,593
(f) Other works ..	..	408	320	1,144	3,826	6,007	299	1,068	1,029	14,101
IX. Miscellaneous—										
(a) Refunds ..	..	55	1,092	53	265	982	271	..	165	2,883
(b) Law charges ..	..	..	2	8	..	9,661	..	21	1	9,693
(c) Other charges ..	27	296	204	809	234	83	210	39	675	2,577
Total A.—Conservancy and works ..	58,142	46,100	28,383	52,963	49,791	67,354	16,955	37,485	40,143	3,96,316

MADRAS,
29th August 1893.(Signed) R. MORRIS,
Deputy Accountant-General.

ANNUAL FORM No. 64.

Forest Department, Madras Presidency, Northern Circle.

Summary of Expenditure of the different districts for 15 months ending 30th June 1893.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godavari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.
B.—“Establishments.”	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, Total A. “Conservancy and works” ..	1,129	20,846	6,121	23,165	24,646	27,179	24,848	12,059	1,39,996
I.—Salaries—									
(a) Conservators ..	18,768	..	..	..	..	..	..	..	18,768
(b) Superior officers ..	16,857	11,305	5,831	7,409	9,068	11,733	3,810	5,240	71,251
(c) Subordinate forest and depôt establishments ..	1,373	4,603	2,870	8,788	8,822	9,946	6,260	6,745	49,407
(d) Office establishments ..	16,197	2,052	1,181	2,475	2,812	2,889	1,650	1,831	31,087
(e) Deputation and special allowances ..	532	..	..	..	..	..	..	..	532
II.—Travelling allowances—									
(a) Conservators ..	4,586	..	..	..	..	..	..	..	4,586
(b) Superior officers ..	3,570	1,554	1,275	1,428	2,060	2,236	1,180	1,201	14,504
(c) Subordinate forest and depôt establishments ..	748	1,655	608	2,826	2,488	4,156	1,345	1,868	15,694
(d) Office establishments ..	2,103	370	303	502	1,111	670	269	402	5,730
III.—Contingencies—									
(a) Stationery ..	..	..	..	..	..	..	..	..	..
(b) Carriage of tents and records ..	728	92	171	101	567	357	191	190	2,397
(c) Rents, rates and taxes ..	600	249	141	285	1	3	40	2	1,321
(d) Pay of police guards ..	..	..	..	..	..	..	..	..	..
(e) Official postage ..	798	354	246	535	1,059	687	545	410	4,634
(f) Sundries ..	1,320	482	465	717	991	704	716	935	6,329
Total B.—“Establishments” ..	68,180	22,716	18,091	25,066	28,977	33,331	16,005	18,824	2,26,240
Grand Total of Expenditure ..	69,309	43,562	19,212	48,234	53,623	60,560	40,853	30,883	3,66,236

MADRAS,
29th August 1893.(Signed) R. MORRIS,
Deputy Accountant-General.

ANNUAL FORM No. 64.

Forest Department, Madras Presidency, Central Circle.

Summary of Expenditure of the different districts for 15 months ending 30th June 1893.

Budget heads.	Direction.	Nellore.	Cuddapah.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Total.
<i>B.—“Establishments.”</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, Total A. “Conservancy and Works”	1,903	54,370	36,050	11,689	84,324	26,671	43,145	26,957	7,138	2,91,217.
I.—Salaries—										24,000
(a) Conservators ..	24,000									24,000
(b) Superior officers ..	16,990	10,186	14,671	6,142	6,653	7,886	16,460	13,670		92,648
(c) Subordinate forest and depot establishments ..	3,805	8,406	13,570	3,723	12,607	11,401	14,438	4,561	1,260	73,831
(d) Office establishment ..	17,841	2,940	3,595	1,661	3,926	3,630	3,567	2,251	1,277	40,378
(e) Deputation and special allowances ..	532					136				668
II.—Travelling allowances—										3,679
(a) Conservators ..	3,679									3,679
(b) Superior officers ..	4,794	1,450	2,721	1,553	1,935	1,361	3,065	1,870	457	19,215
(c) Subordinate forest and depot establishments ..	1,939	1,996	3,476	1,054	3,957	2,897	4,641	1,762	414	22,136
(d) Office establishments ..	2,586	407	658	176	748	649	508	611	274	6,615
III.—Contingencies—										2
(a) Stationery ..		2								2
(b) Carriage of tents and records ..	924	269	165	179	224	225	464	197	116	2,703
(c) Rents, rates and taxes ..			55	8		768	28	71	1	940
(d) Pay of police guards ..										
(e) Official postage ..	828	259	594	377	1,227	1,148	1,036	598	245	6,812
(f) Sundries ..	3,306	1,201	1,633	621	1,128	1,187	1,118	220	84	10,498
Total B.—“Establishments”	81,028	27,116	41,136	15,384	82,410	31,348	45,805	26,820	4,128	3,04,125
Grand Total of Expenditure	82,931	81,486	76,186	27,023	1,16,804	57,919	88,950	52,777	11,266	5,95,349

MADRAS,
29th August 1893.

(Signed) R. MORRIS,
Deputy Accountant-General.

ANNUAL FORM No. 64.

Forest Department, Madras Presidency, Southern Circle.

Summary of Expenditure of the different districts for 15 months ending 30th June 1893.

Budget heads.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevely.	North Malabar.	South Malabar.	South Canara.	Total.
<i>B.—“Establishments.”</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, Total A. “Conservancy and Works”	56,142	46,100	28,383	52,863	49,791	67,354	15,955	37,485	40,143	3,96,316
I.—Salaries—										
(a) Conservators ..	19,064									19,064
(b) Superior officers ..	6,890	13,494	11,289	5,188	13,500	9,431	7,354	12,000	6,270	85,416
(c) Subordinate forest and depot establishments ..	4,768	9,818	7,074	9,948	11,892	10,138	7,328	5,880	6,514	73,460
(d) Office establishments ..	13,960	2,774	3,235	3,484	2,847	3,536	3,250	2,038	2,681	37,865
(e) Deputation and special allowances ..	532									532
II.—Travelling allowances—										
(a) Conservators ..	3,986									3,986
(b) Superior officers ..	1,330	1,589	2,569	1,423	3,041	3,104	917	1,019	1,425	16,417
(c) Subordinate forest and depot establishments ..	2,127	1,959	2,291	2,759	4,170	3,314	1,503	1,464	2,103	21,690
(d) Office establishments ..	1,140	54	639	470	917	824	118	151	351	4,564
III.—Contingencies—										
(a) Stationery ..										
(b) Carriage of tents and records ..	483	2	383	201	373	281	35	16	351	2,125
(c) Rents, rates and taxes ..	720	106	163	102	16	76		12	54	1,249
(d) Pay of police guards ..										
(e) Official postage ..	820	267	582	449	842	972	177	193	1,076	5,358
(f) Sundries ..	3,282	787	971	860	945	963	509	396	655	9,368
Total B.—“Establishments”	69,102	30,850	29,076	24,884	38,543	32,639	21,191	23,169	21,580	2,81,034
Grand Total of Expenditure	1,17,244	76,950	57,459	77,817	88,334	99,993	37,148	60,554	61,723	6,77,350

MADRAS,
29th August 1893.

(Signed) R. MORRIS,
Deputy Accountant-General.

ANNUAL FORM NO. 64.

Forest Department, Madras Presidency.

GRAND TOTAL of the Presidency.

Budget heads. Receipts.	RS.	Budget heads. Expenditure—A. Conservancy and Works.	RS.	Budget heads. Expenditure—B. Establish- ments.	RS.
I. Timber and other pro- duce removed from the forests by Government Agency—		I. Timber and other produce removed from the forests by Government Agency—		Brought forward, Total, A. Conservancy and Works	8,27,529
(a) Timber	1,83,661	(a) Timber	62,862	I. Salaries—	
(b) Firewood and charcoal	1,33,723	(b) Firewood and char- coal	84,209	(a) Conservators	61,882
(c) Bamboos	4,201	(c) Bamboos	1,492	(b) Superior officers	2,49,816
(d) Sandalwood	40,096	(d) Sandalwood	3,697	(c) Subordinate forest and depôt estab- lishments	1,96,698
(e) Grass and other minor produce	49,128	(e) Grass and other minor produce	29,088	(d) Office establish- ments	1,09,976
II. Timber and other pro- duce removed from the forests by consumers or purchasers—		II. Timber and other produce removed from the forests by consumers or purchas- ers	91,190	(e) Deputation and special allow- ances	1,732
(a) Timber	2,65,703	III. Confiscated drift and wait- wood	2,985	II. Travelling allow- ances—	
(b) Firewood and charcoal	2,99,264	IV. Revenue from forests not managed by Government		(a) Conservators	12,251
(c) Bamboos	1,72,209	V. Rent of leased forests and payments to shareholders in forests managed by Government	27,145	(b) Superior officers	50,136
(d) Grazing and fodder grass	2,11,528	VI. Live-stock, stores, tools and plant—		(c) Subordinate forest and depôt estab- lishments	59,620
(e) Other minor produce	5,22,593	(a) Purchase of cattle	1,443	(d) Office establish- ments	16,909
III. Confiscated drift and waitwood	12,406	(b) Feed and keep of cattle	20,562	III. Contingencies—	
IV. Revenue from forests not managed by Gov- ernment		(c) Stores, tools and plant	9,016	(a) Stationery	2
V. Miscellaneous—		VII. Communications and build- ings—		(b) Carriage of tents and records	7,226
(a) Fines and forfei- tures	1,796	(a) Roads and bridges	37,289	(c) Rents, rates and taxes	3,610
(b) Refunds	8,869	(b) Buildings	59,395	(d) Pay of Police guards	
(c) Other sources	60,642	(c) Other works	8,626	(e) Official postage	16,804
		VIII. Demarcation, improvement and extension of forests—		(f) Sundries	26,196
		(a) Demarcation	73,804		
		(b) Compensation for lands and rights	23,883		
		(c) Surveys and work- ing plans	53,008		
		(d) Plantations	64,797		
		(e) Protection from fire	67,020		
		(f) Other works	56,911		
		IX. Miscellaneous—			
		(a) Refunds	8,916		
		(b) Law charges	10,264		
		(c) Other charges	4,870		
Total, Receipts	19,66,816	Total, A. Conservancy and Works	8,27,529	Total, B. Establish- ments	8,11,399
				Grand Total of Expendi- ture	16,38,928

ANNUAL FORM NO. 65.

Forest Department, Madras Presidency, Northern Circle.

OUTSTANDINGS and Liabilities on account of contractors and disbursers for 15 months ending 30th June 1893.

District.	DEPARTMENT DEBITOR.		DEPARTMENT CREDITOR.		BALANCE DUE	
	At commence- ment of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	Payments made during year.	At close of year.	To department (outstanding).
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	By department (liabilities).
Conservator, Northern Circle		4,376 1 0	4,376 1 0	4,310 11 3	4,536 4 0	RS. A. P. 160 3 0
Forest Settlement-office, Kurnool		414 10 8	414 10 8	170 1 9	414 10 8	.. .. .
One-third of Examiner's office		450 7 0	450 7 0	30 7 0	450 7 0	.. .. .
Forest School, Dohra Dán		28,477 9 7	28,477 9 7	29,313 0 9	31,697 15 4	3,220 5 9
Gajjam		8,370 14 5	8,370 14 5	9,319 8 5	9,507 13 6	636 15 1
Vizagapatam		45,070 6 10	45,070 6 10	45,745 6 7	47,899 12 3	2,229 6 6
Godavari		37,615 10 5	37,615 10 5	38,751 8 11	38,751 8 11	1,135 7 2
Kistna		31,346 2 11	31,346 2 11	52,170 10 2	53,097 11 3	1,561 8 4
Kurnool		22,905 11 1	22,905 11 1	22,740 0 11	23,133 14 3	228 3 2
Belary		18,355 9 1	18,355 9 1	18,318 2 3	18,536 6 9	160 13 8
Anantapur						
Total		2,18,813 3 0	2,18,813 3 0	2,21,090 10 0	2,28,026 0 7	9,212 13 7

MADRAS,
29th August 1893.

(Signed) R. MORRIS,
Deputy Accountant-General.

ANNUAL FORM No. 65.

Forest Department, Madras Presidency, Central Circle.

Outstandings and Liabilities on account of contractors and disbursers for 15 months ending 30th June 1893.

District.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE	
	At commence- ment of year.	Recoveries in cash and value of sup- plies and work done during the year.	At close of year.	At commence- ment of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).
Conservator, Central Circle	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
One-third of Examiner's office	..	1,753 9 7	1,753 9 7	30 0 1	1,792 9 8	1,822 9 9	69 0 2	..
Forest Settlement-office, Salem, &c.	..	325 12 11	325 12 11	..	325 12 11	325 12 11	..	..
Do. Trichinopoly	..	8 14 0	8 14 0	..	6 14 0	8 14 0	..	..
Do. Nellore, &c.	..	660 15 6	660 15 6	39 6 0	639 7 0	678 13 0	17 13 6	..
One-third of Examiner's office	..	414 10 5	414 10 5	244 8 10	170 1 7	414 10 5	..	..
Forest School, Dehra Dun	..	60,817 15 10	60,817 15 10	859 6 7	63,228 3 11	64,087 10 6	3,269 10 8	..
Nellore	..	51,720 0 8	51,720 0 8	632 2 8	51,854 9 10	52,606 12 6	786 11 10	..
Gudalur	..	18,416 8 0	18,416 8 0	..	18,723 12 0	18,786 0 7	370 8 7	..
Chingleput	..	1,16,375 6 6	1,16,375 6 6	2,761 8 2	1,18,733 13 6	1,18,516 5 8	2,140 0 2	..
North Arcot	..	50,514 13 8	50,514 13 8	1,782 0 0	50,656 9 3	52,438 9 3	1,923 11 7	..
South Arcot	..	76,814 2 6	76,814 2 6	1,132 4 0	77,793 0 3	78,924 4 3	2,110 1 9	..
Salem	..	37,672 0 9	37,672 0 9	105 14 5	38,221 5 0	38,327 3 5	655 2 8	..
Trichinopoly	..	9,482 2 11	9,482 2 11	181 5 3	9,447 0 2	9,628 5 5	146 2 8	..
Tanjore	..	4,25,620 14 3	4,25,620 14 3	7,880 12 7	4,29,279 1 1	4,37,100 13 8	11,488 15 5	..
Total	..	..	..	..	..	..	..	..

MADRAS,
29th August 1893.

(Signed) R. MORRIS,
Deputy Accountant-General.

ANNUAL FORM No. 65.

Forest Department, Madras Presidency, Southern Circle.

Outstandings and Liabilities on account of contractors and disbursers for 15 months ending 30th June 1893.

District.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE	
	At commence- ment of year.	Recoveries in cash and value of sup- plies and work done during the year.	At close of year.	At commence- ment of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).
Conservator, Southern Circle	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
One-third of Examiner's office	..	10,503 1 9	10,503 1 9	153 3 11	10,401 7 2	10,554 11 1	51 9 4	..
Forest School, Dehra Dun	..	414 10 7	414 10 7	244 8 9	170 1 10	414 10 7	..	..
Nilgiris	..	40,447 15 8	40,447 15 8	37 0 0	41,586 5 10	37 0 0	37 0 0	..
Coimbatore, North	..	26,404 13 10	26,404 13 10	238 4 6	27,513 8 3	41,824 10 4	1,376 10 8	..
Coimbatore, South	..	43,983 2 10	43,983 2 10	182 4 11	44,409 9 8	27,686 13 2	1,290 15 4	..
Madura	..	1,06,385 0 5	1,06,385 0 5	1,276 11 2	1,09,278 9 8	46,686 4 5	1,703 1 7	..
Tinnevely	..	88,550 5 10	88,550 5 10	3,814 14 0	87,487 14 0	1,10,553 14 7	4,168 14 2	..
Malabar, North	..	11,978 10 1	11,978 10 1	627 15 3	12,841 14 3	91,302 12 0	2,752 6 2	..
Malabar, South	..	16,896 7 8	16,896 7 8	418 11 11	16,415 0 2	13,469 13 6	1,491 8 5	..
South Canara	..	51,604 8 2	51,604 8 2	15,562 7 2	37,407 15 6	52,970 6 8	1,365 14 6	..
Total	..	3,96,168 12 10	3,96,168 12 10	23,831 6 6	3,87,512 5 11	4,11,843 12 4	15,174 15 7	..

MADRAS,
29th August 1893.

(Signed) R. MORRIS,
Deputy Accountant-General.

GRAND TOTAL for the Presidency.

DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE	
At commence- ment of year.	Recoveries in cash and value of sup- plies and work done during the year.	At close of year.	At commence- ment of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).
RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
..	10,40,602 14 1	10,40,602 14 1	38,597 9 8	10,37,882 1 0	10,76,479 10 8	35,878 12 7	..

ANNUAL FORM No. 66.

Forest Department, Madras Presidency, Northern Circle.

Revenue received and Outstandings on account of revenue for 15 months ending 30th June 1893.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.	Remarks.
Direction ..	Timber and other produce ..	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Ganjum ..	do. ..	387 1 0	45,677 2 7	46,064 3 7	46,713 4 7	0 2 0	(a) Written off the accounts as per Board's Proceedings, dated 23rd September 1892, No. 1009.
Visayapatam ..	do. ..	154 12 0	19,812 7 9	19,966 9 9	19,812 7 9	154 12 0	(b) Written off the accounts as per Government Order, dated 11th October 1892, No. 4415, communicated in Board's Proceedings, dated 24th October 1892, No. 1150.
Gódvári ..	do. ..	1,280 10 6	1,09,730 7 9	1,10,010 13 5	1,10,782 5 5	228 12 10	
Kistna ..	do. ..	139 8 10	89,894 6 8	90,033 15 6	90,033 15 6	228 12 10	
Kurnool ..	do. ..	3,207 15 0	43,663 10 4	46,871 9 4	46,436 2 16	435 6 6	
Bellary ..	do. ..	18 0 0	28,240 5 11	28,258 5 11	28,240 5 11	18 0 0	
Anantapur ..	do. ..	5,187 16 4	4,50,098 6 10	4,55,286 6 2	4,54,069 1 10	693 3 4	(c) Written off the accounts as per Board's Proceedings, dated 27th April 1892, No. 440.
Total ..							

MADRAS,
29th August 1893.

(Signed) R. MORRIS,
Deputy Accountant-General.

ANNUAL FORM No. 66.

Forest Department, Madras Presidency, Central Circle.

Revenue received and Outstandings on account of revenue for 15 months ending 30th June 1893.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.	Remarks.
Direction ..	Timber and other produce ..	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Nellore ..	do. ..	500 0 0	344 12 1	844 12 1	344 12 1	500 0 0	(a) Written off the accounts as per Board's Proceedings, Forest No. 1148, Mis., dated 24th October 1892.
Cuddapah ..	do. ..	53 7 0	1,60,720 7 3	1,60,778 14 3	1,60,491 8 9	284 9 7	
Chingleput ..	do. ..	648 2 5	46,588 2 6	47,236 4 1	46,588 2 6	648 2 5	(b) Written off the accounts as per Government Order, dated 5th October 1892, No. 4377, communicated in Board's Proceedings, dated 17th October 1892, Forest No. 1106, Mis.
North Arcot ..	do. ..	70 1 0	1,89,595 0 6	1,90,295 6 6	1,89,133 7 10	2,109 11 1	
South Arcot ..	do. ..	1,738 5 3	1,01,231 1 5	1,02,962 6 8	1,01,234 15 6	1,166 3 0	(c) Written off the accounts as per Government Order, dated 12th October 1892, No. 4482, communicated in Board's Proceedings, Forest No. 1149, dated 24th October 1892.
Salem ..	do. ..	1,738 5 3	1,68,683 3 1	1,70,421 8 4	1,68,115 9 10	2,306 9 4	(d) Board's Proceedings, Forest No. 688, Mis., dated 9th June 1893.
Trichinopoly ..	do. ..	2,250 1 11	58,785 6 8	60,035 8 7	57,440 14 10	3,104 9 9	
Tanjore ..	do. ..	12 8 0	19,035 8 7	19,048 0 7	19,048 0 7	12 8 0	
Total ..		5,977 9 7	8,66,734 15 9	8,72,012 9 4	8,63,698 13 6	6,757 2 8	

MADRAS,
29th August 1893.

(Signed) R. MORRIS,
Deputy Accountant-General.

ANNUAL FORM No. 68.

Forest Department, Madras Presidency, Southern Circle.

Revenue received and Outstandings on account of revenue for 15 months ending 30th June 1893.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.	Remarks.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Dissection ..	Timber and other produce	44 0 3	56,191 5 10	56,235 5 13	244 1 5	895 4 3	
Nilgiris ..	do.	898 11 7	1,44,073 5 3	1,44,971 6 10	65,340 1 10	231 2 9	
North Coimbatore ..	do.	401 1 4	1,04,851 0 1	1,05,252 1 5	1,44,896 14 1	375 15 4	
South Coimbatore ..	do.	1,150 3 8	92,952 7 9	94,102 11 5	73,834 14 7	20,267 12 10	
Madras ..	do.	1,832 3 8	95,768 8 0	97,600 11 8	96,461 15 4	1,128 12 4	
Tinnevely ..	do.	4,933 0 0	55,924 0 4	56,857 0 10	31,857 0 10	1,340 0 0	
North Malabar ..	do.	1,260 13 11	73,701 2 0	74,961 15 11	55,440 11 9	3,118 12 0	* Written off the accounts as per Government Order, dated 4th April 1892, communicated in Board's Proceedings, dated 12th April 1892, No. 388.
South Malabar ..	do.	10,780 2 11	6,05,146 10 5	6,15,926 13 4	6,48,150 1 10	27,671 11 6	
South Canara ..	do.				6,75,928 13 4		
Total ..							

(Signed) R. MORRIS,
Deputy Accountant-General.

MADRAS,
29th August 1893.

GRAND TOTAL for the Presidency.

Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of the year.	Remarks.
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
21,245 11 10	19,81,980 1 0	20,03,225 12 10	19,68,103 11 4	35,122 1 6	

ANNUAL FORM No. 68.

Forest Department, Madras Presidency.

Trees felled by Government Agency during 1892-93.

Selection fellings.

Districts	Teak.	Rose-wood.	Vengai.	Red-wood.	Sal.	Iron-wood.	Sandal-wood.	Eucalyptus and acacia.	Miscellaneous.	Total.
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
<i>Northern Circle.</i>										
Stock at beginning of the year	..	..	..	..	..	2	..	..	(a) 41	43
Ganjām ..	..	..	..	..	662	..	..	..	2	664
Vizagapatam ..	..	..	..	..	..	..	..	..	2,649	5,150
Gōdāvari ..	2,501	..	..	..	..	..	..	..	5,974	6,974
Kistna ..	..	..	..	..	..	..	..	..	106	110
Anantapur ..	4	..	..	..	..	..	..	..	16,043	16,043
Bellary ..	..	..	168	..	..	..	..	..	103	277
Kurnool ..	6	..	..	..	..	..	..	..	..	..
Total felled during the year.	2,511	..	168	..	662	..	..	..	24,877	28,218
Total ..	2,511	..	168	..	662	2	..	..	24,918	28,261
Converted into logs, &c. ..	2,511	..	168	..	662	..	..	..	24,912	28,253
Balance on hand at end of the year	..	..	..	..	..	2	..	..	6	8
<i>Central Circle.</i>										
Stock at beginning of the year	..	..	..	..	..	..	..	..	874	874
Nellore ..	..	..	..	..	..	..	..	..	53	53
Ouddapah ..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	..	..	..	4,770	..	..	..	..	2,173	6,943
North Arcot ..	..	..	..	..	..	..	..	..	..	..
South do. ..	..	..	..	..	..	..	..	..	..	..
Tanjore ..	..	..	..	..	..	..	..	..	..	..
Trichinopoly ..	..	..	..	..	..	..	487	..	765	1,252
Salem ..	..	..	..	..	..	..	..	..	..	..
Total felled during the year.	..	..	..	4,770	..	..	487	..	2,991	8,248
Total ..	..	..	..	4,770	..	..	487	..	3,865	9,122
Converted into logs, &c. ..	..	..	..	4,770	..	..	487	..	2,992	8,249
Balance on hand at end of the year	..	..	..	..	..	..	..	..	873	873
<i>Southern Circle.</i>										
Stock at beginning of the year	43	11	22	..	..	..	..	..	215	291
Madura ..	..	2	167	..	..	..	..	..	167	356
Tinnevely ..	..	..	..	..	..	..	..	..	154	154
North Coimbatore ..	..	..	..	..	..	..	..	..	..	..
South do. ..	292	6	..	..	..	..	..	..	413	711
Nilgiris ..	351	..	248	..	..	..	..	16,773	88	17,440
North Malabar ..	501	84	53	..	..	..	..	..	60	698
South do. ..	170	135	4	..	..	..	..	..	1,403	1,712
South Canara ..	65	4	26	..	..	..	..	..	370	465
Total felled during the year.	1,359	231	518	..	..	..	..	16,773	2,655	21,536
Total ..	1,402	242	540	..	..	..	..	16,773	2,870	21,827
Converted into logs, &c. ..	1,359	231	518	..	..	..	..	16,773	2,790	21,597
Balance on hand at end of the year	22	18	10	..	..	2	..	..	80	130
<i>Grand Total.</i>										
Total stock at beginning of the year	48	(a) 11	22	..	..	2	..	..	(a) 1,130	1,208
Total felled during the year.	3,870	231	688	4,770	662	..	487	16,773	30,523	58,002
Total ..	3,913	242	708	4,770	662	2	487	16,773	31,553	59,210
Total converted into logs, &c. ..	3,891	224	698	4,770	662	..	487	16,773	30,694	58,199
Total balance on hand at end of the year	22	18	10	..	..	2	..	..	959	1,011

(a) Two were shown by mistake under rosewood last year and are now included under miscellaneous.

STATEMENT of Timber and other produce cut and collected by Government Agency during the year 1892-93
(from 1st April 1892 to 30th June 1893).

	TIMBER.								Fuel.	Bamboos.	Sandalwood.	Minor produce.
	Tek.	Rosewood.	Vengai.	Redwood.	Sal.	Iron wood.	Miscellaneous.	Total.				
Northern Circle.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	C. FT.	MDS.
Stock of the circle at the beginning of the year ..	14,247	..	..	..	21,498	586	1,962	38,293	337,607	11,058	..	62,526
Ganjām	..	..	..	..	4,682	..	128	4,810	..	760	..	1
Vizagapatam	..	..	..	..	..	..	..	..	..	..	..	1,968
Godavari	14,674	..	..	..	..	5	6,525	21,204	46,116	..	..	41
Kistna	..	..	..	..	..	..	7,557	7,557	40,396	6	..	204
Anantapur	6	..	..	..	..	..	525	530	..	276	..	1,712
Bellary	..	..	..	..	..	..	677	677	16,984	..	..	3,087
Kurnool	76	..	1,953	..	..	..	1,642	3,671	23,156	4,410	..	..
Collection during the year ..	14,755	..	1,953	..	4,682	5	17,254	38,649	126,651	5,451	..	6,991
Total ..	29,002	..	1,953	..	26,180	601	19,216	76,942	463,658	19,504	..	69,516
Sold locally in the forest ..	22,081	..	1,638	..	..	..	13,221	36,940	117,867	4,820	..	41,137
Used departmentally, wastage written off, &c. ..	77	..	..	..	2,566	..	1,544	4,186	268,395	13,840	..	6,068
Removed to sale depôts ..	6,750	..	..	..	17,764	..	213	24,717	34,041	760	..	632
Total disposal ..	28,908	..	1,638	..	20,319	..	14,978	65,843	410,303	19,220	..	47,832
Stock in the forest on 30th June 1893 ..	94	..	316	..	5,861	591	4,238	11,099	53,355	284	..	21,684
Central Circle.												
Stock of the circle at the beginning of the year ..	..	..	..	..	..	..	(a) 7,941	7,941	(b) 119,737	..	..	50,153
Nellore	..	..	..	..	..	..	9	9	271,247	240	..	9,413
Ouddapah	..	..	..	128	..	..	6,382	6,510	34,450	8,334	..	10,193
Chingleput	..	..	..	..	..	..	706	706	..	34	..	3
North Arcot	..	..	..	4,000	..	..	10,574	14,574	341,646	5,204	464	63
South Arcot	..	..	..	..	..	..	743	743	62,025	1,700	..	30
Tanjore	..	..	..	..	..	..	..	..	1,360	..	..	3
Trichinopoly	..	..	..	..	..	..	202	202	214,283	..	..	460
Salem	..	..	..	..	..	..	1,761	1,761	32,996	3,220	531	..
Collection during the year ..	..	..	..	4,128	..	..	19,376	23,504	948,041	18,698	995	20,155
Total ..	..	..	..	4,128	..	..	27,317	31,445	1,067,778	18,698	995	70,398
Sold locally in the forest ..	..	..	..	1,703	..	..	14,204	19,907	602,601	14,728	..	5,611
Used departmentally, wastage written off, &c. ..	..	..	..	569	..	..	460	1,029	5,811	..	20	35,234
Removed to sale depôts ..	..	..	..	1,856	..	..	6,956	8,811	324,130	3,970	975	12,739
Total disposal ..	..	..	..	4,128	..	..	25,619	29,747	932,502	18,698	995	58,584
Stock in the forest on 30th June 1893 ..	..	..	..	..	..	..	1,698	1,698	135,276	..	..	16,724
Southern Circle.												
Stock of the circle at the beginning of the year ..	(c) 36,157	3,639	13,077	..	..	..	(e) 56,771	109,644	356,450	8,176	51	4,667
Madura	..	41	3,727	..	..	..	1,658	5,465	43,146	..	..	438
Tinnevely	..	..	..	..	..	..	13,099	13,099	816,804	700	..	..
North Coimbatore	..	27	9	..	..	..	243	279	274	405	1,669	..
South Coimbatore	26,306	337	86	..	..	..	29,794	55,522	34,380	..	..	3,673
Nilgiris	11,346	1,048	7,927	..	..	..	579	20,900	411,294	..	980	483
North Malabar	24,055	2,177	1,786	..	..	..	1,621	25,639	..	..	..	..
South Malabar	19,807	4,302	284	..	..	..	53,023	77,416	821	6,593	..	310
South Canara	1,624	676	1,621	..	..	..	18,254	22,075	151,203	2,192	..	6,354
Collection during the year ..	73,127	8,808	15,340	..	..	..	118,311	220,396	956,022	9,890	2,560	11,255
Total ..	114,294	12,247	28,417	..	..	..	175,082	330,040	1,813,372	18,066	2,610	15,923

(a) Excludes 340 cubic feet classified wrongly under miscellaneous during 1891-92.
 (b) Includes do. do.
 (c) 22 cubic feet classed under tek during 1891-92 has been classed under miscellaneous this year.

Statement of Timber and other produce cut and collected by Government Agency, &c.—cont.

	TIMBER.								Fuel.	Bamboos.	Sandalwood.	Minor produce.
	Tek.	Rosewood.	Vengai.	Redwood.	Sal.	Iron wood.	Miscellaneous.	Total.				
Southern Circle—cont.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	C. FT.	MDS.
Sold locally in the forest ..	44,363	2,986	22,789	..	..	..	56,744	126,882	698,810	5,739	1,034	14,266
Used departmentally, wastage written off, &c. ..	2,362	45	889	..	..	..	10,374	13,670	79,208	335	8	313
Removed to sale depôts ..	34,977	600	879	..	..	..	38,004	74,360	227,572	6,332	1,555	8
Total disposal ..	81,702	3,531	24,557	..	..	..	105,122	214,912	1,005,590	12,406	2,597	14,582
Stock in the forest on 30th June 1893 ..	32,592	8,716	3,860	..	..	..	69,960	115,128	307,782	5,660	13	1,341
Grand Total.												
Stock of the circles at the beginning of the year ..	(c) 50,404	3,639	13,077	..	21,498	586	66,674	156,878	(b) 813,194	22,229	51	117,345
Collection during the year ..	92,892	8,608	17,293	4,128	4,682	5	154,941	282,549	2,031,614	34,039	3,554	38,402
Total ..	143,296	12,247	30,370	4,128	26,180	591	221,615	438,427	2,944,808	56,268	3,605	155,747
Sold locally in the forest ..	66,444	2,986	24,427	1,703	..	..	88,169	183,729	1,419,238	25,087	1,034	61,014
Used departmentally, wastage written off, &c. ..	2,439	45	889	569	2,565	..	12,378	18,885	343,414	14,175	28	41,610
Removed to sale depôts ..	41,727	500	879	1,856	17,764	..	46,172	107,888	585,743	11,062	2,580	13,374
Total disposal ..	110,610	3,531	26,195	4,128	20,319	..	145,719	310,602	2,348,395	50,324	3,592	116,998
Stock in the forest on 30th June 1893 ..	32,686	8,716	4,175	..	5,861	591	75,896	127,925	496,413	5,944	13	39,749

(a) Excludes 340 cubic feet classified wrongly under miscellaneous during 1891-92.

(b) Includes do. do.

(c) 22 cubic feet classed under tek during 1891-92 has been classed under miscellaneous this year.

RECEIPTS AND ISSUES OF TIMBER AND OTHER PRODUCE IN SALE DEPÔTS DURING THE YEAR 1892-93 (FROM 1st APRIL 1892 TO 30th JUNE 1893).

	TIMBER.								Fuel.	Bamboos.	Sandalwood.	Minor produce.
	Teak.	Rosewood.	Vengai.	Redwood.	Sal.	Ironwood.	Miscellaneous.	Total.				
<i>Northern Circle.</i>	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	C. FT.	MDS.
Stock of the circle at sale depôts at the beginning of the year ..	..	..	..	..	1,562	40	1,116	2,748	10,558	8,536	..	..
Ganjâm ..	..	..	..	..	17,754	..	128	17,882	..	760	..	1
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..
Gôdâvari ..	6,750	..	..	..	..	..	85	6,835	..	..	..	448
Kistna ..	..	..	..	..	..	..	..	..	31,421	..	..	185
Anantapur ..	..	..	..	..	..	..	..	..	2,690	..	..	..
Bellary ..	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool ..	..	..	..	..	..	..	..	..	..	..	..	..
Total received from forests into the sale depôts during the year ..	6,750	..	..	..	17,764	..	213	24,717	34,041	760	..	448
Receipts from one sale depôt into another ..	..	..	..	..	650	..	..	650	..	760	..	..
Quantity found in depôts in excess of original measurement in the forests ..	..	..	..	..	45	12	20	77	10	..	..	..
Total receipts, including previous year's stock ..	6,750	..	..	..	18,911	52	1,379	28,092	44,609	10,055	..	448
Sold from depôts ..	6,600	..	..	..	13,906	..	1,061	21,657	39,139	760	..	448
Removed from one sale depôt into another ..	..	..	..	..	550	..	..	550	..	760	..	..
Deduct excess by wrong measurement ..	..	..	..	..	963	..	172	1,135	1,401	..	..	..
Quantity used departmentally, wastage written off, &c. ..	132	..	..	..	77	..	14	223	4,069	8,635	..	44
Total ..	6,732	..	..	..	15,496	..	1,237	23,465	44,609	10,055	..	448
Balance at the end of the year ..	18	..	..	..	4,415	52	142	4,827	..	..	..	58
<i>Central Circle.</i>												
Stock of the circle at sale depôts at the beginning of the year ..	..	..	..	77,526	..	..	812	78,339	28,942	..	91	48,548
Nellore ..	..	..	..	..	..	..	..	..	..	..	..	..
Uddappah ..	..	..	..	138	..	..	4,706	4,844	211,638	..	..	..
Chinglaput ..	..	..	..	..	..	..	286	2,014	77,779	760	444	..
North Arcot ..	..	..	..	1,728	..	..	..	..	..	..	..	..
South Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..
Tanjore ..	..	..	..	..	..	..	202	202	40,733	..	..	..
Trichinopoly ..	..	..	..	..	..	..	1,761	1,761	3,220	531	..	..
Salem ..	..	..	..	..	..	..	..	..	..	..	..	..
Total received from forests into the sale depôts during the year ..	..	..	..	1,856	..	..	6,955	8,811	324,120	3,970	975	12,135
Quantity found in depôts in excess of original measurement in the forests ..	..	..	..	..	..	..	..	..	..	..	..	..
Total receipts, including previous year's stock ..	..	..	..	..	..	..	..	..	..	..	..	..
Sold from depôts ..	..	..	..	..	..	..	..	..	..	..	..	..
Removed from one sale depôt into another ..	..	..	..	..	..	..	..	..	..	..	..	..
Deduct excess by wrong measurement ..	..	..	..	..	..	..	..	..	..	..	..	..
Quantity used departmentally, wastage written off, &c. ..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..	..	..	..	..	..	..
Balance at the end of the year ..	..	..	..	..	..	..	..	..	..	..	..	..

Receipts and Issues of Timber and other produce in sale depôts during the year 1892-93—cont.

	TIMBER.								Fuel.	Bamboos.	Sandalwood.	Minor produce.
	Teak.	Rosewood.	Vengai.	Redwood.	Sal.	Ironwood.	Miscellaneous.	Total.				
<i>Southern Circle.</i>	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	C. FT.	MDS.
Stock of the circle at sale depôts at the beginning of the year ..	18,116	..	230	..	..	..	8,990	27,336	47,462	750	1,685	16
Madura ..	..	..	..	..	..	..	..	..	21,299	..	..	..
Tinnevely ..	..	..	..	..	..	..	1,746	1,746	1,267	..	..	3
North Coimbatore ..	..	27	9	..	..	..	39	75	1	90	1,555	..
South do. ..	26,103	203	465	..	..	..	27,752	54,523	..	..	..	..
Nilgiris ..	..	..	..	..	..	..	146	146	204,184	..	..	..
North Malabar ..	..	..	..	..	..	..	..	..	..	..	..	..
South do. ..	7,451	..	..	..	..	..	..	7,451	824	6,242	..	..
South Canara ..	1,428	270	405	..	..	..	8,321	10,419	..	..	..	..
Total received from forests into the sale depôts during the year ..	34,977	500	879	..	..	..	38,004	74,360	227,572	6,332	1,555	3
Quantity found in depôts in excess of original measurements in forest ..	2,313	..	1	..	..	..	4	2,318	..	..	..	..
Total receipts including previous year's stock ..	55,406	500	1,110	..	..	..	46,998	104,014	275,034	7,082	3,241	19
Sold from depôts ..	23,647	473	1,043	..	..	..	42,676	73,839	218,762	6,242	2,614	15
Excess by wrong measurement ..	1	2	..	..	..	..	3	6	..	..	..	..
Quantity used departmentally, wastage written off, &c. ..	4,614	..	..	..	..	..	1,119	5,733	18,172	840	..	4
Total ..	34,262	475	1,043	..	..	..	43,798	79,578	236,934	7,082	2,614	19
Balance on 30th June 1893 ..	21,144	25	67	..	..	..	3,200	24,436	38,100	..	627	..
<i>Grand Total.</i>												
Stock of the circles at sale depôts at the beginning of the year ..	18,116	..	230	77,526	1,562	40	10,948	108,422	81,962	9,285	1,777	40,576
Total received from forest into sale depôts during the year ..	41,727	500	879	1,856	17,754	..	45,172	107,888	585,743	11,062	2,530	13,374
Receipts from one sale depôt into another ..	..	..	..	..	550	..	..	550	..	760	..	..
Quantity found in excess of original measurements in forests ..	2,313	..	1	3,800	45	12	24	6,195	6,485	..	2	28
Total receipts including previous year's stock ..	62,156	500	1,110	83,182	19,011	52	56,144	223,055	674,190	21,107	4,309	53,978
Sold from depôts ..	36,247	473	1,043	82,097	13,906	..	50,739	184,605	581,864	10,222	3,060	48,281
Removed from one sale depôt into another ..	..	..	..	..	550	..	..	550	..	760	..	..
Deduct excess by wrong measurement ..	1	2	..	..	963	..	175	1,141	1,401	..	..	..
Quantity used departmentally, wastage written off, &c. ..	4,746	..	..	127	77	..	1,421	6,371	24,476	9,375	18	1,177
Total ..	40,994	475	1,043	82,224	15,486	..	52,335	192,567	607,741	20,357	3,078	49,458
Stock on 30th June 1893 ..	21,162	25	67	958	4,415	52	3,809	30,488	66,449	750	1,231	4,520

ANNUAL FORM No. 71.

Forest Department, Madras Presidency.

SALES of timber and other produce cut and collected by Government Agency during the year 1892-93 (from 1st April 1892 to 30th June 1893).

District.	TIMBER.										TOTAL TIMBER.			
	Teak.		Rosewood.		Vengai.		Bedwood.		SAL.		Ironwood.		Miscellaneous.	
	From depôt.	From forest.	From depôt.	From forest.	From depôt.	From forest.	From depôt.	From forest.	From depôt.	From forest.	From depôt.	From forest.	From depôt.	From forest.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Northern Circle.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direction ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganjam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goddavari ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kistna ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Anantapur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bellary ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	6,600	22,011	..	..	..	..	..	..	13,906	..	..	..	1,051	13,221
Central Circle.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Nellore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cuddapah ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tanjore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Trichinopoly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Salem ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Southern Circle.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Madura ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinnevely ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Coimbatore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nilgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Malabar ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Canara ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

* The Collector has not given the quantity sold.

Sales of timber and other produce cut and collected by Government Agency during the year 1892-93, &c.—cont.

District.	FUEL.				BARKWOOD.				SANDALWOOD.				MINOR PRODUCE.			
	From depôt.		From forest.		From depôt.		From forest.		From depôt.		From forest.		From depôt.		From forest.	
	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Northern Circle.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direction ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganjam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goddavari ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kistna ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Anantapur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bellary ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	39,139	2,721	117,867	5,073	5	4,620	258	..	..	..	..	..	..	..	..	..
Central Circle.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Nellore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cuddapah ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tanjore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Trichinopoly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Salem ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	323,963	46,613	602,661	40,620	180	14,728	3,014	..	..	..	..	..	..	..	..	..
Southern Circle.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Madura ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinnevely ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Coimbatore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nilgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Malabar ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Canara ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	218,762	19,522	698,810	21,546	574	5,739	113	..	..	..	..	..	..	..	..	..

* The Collector has not given the quantity sold.

Sales of timber and other produce out and collected by Government Agency, &c.—cont.

	QUANTITY SOLD.			AMOUNT OF SALES.			Amount actually realized.	
	From depôt.	From forest.	Total.	From depôt.	From forest.	Total.		
<i>Northern Circle.</i>								
ABSTRACT.								
I (a) Timber C.ft.	21,557	36,940	58,497	Rs. 7,828	Rs. 14,635	Rs. 22,463	Rs. 22,559	
(b) Fuel	39,139	117,867	157,006	2,721	5,073	7,794	7,794	
(c) Bamboos No.	760	4,620	5,380	5	258	263	328	
(d) Sandalwood C.ft.	..	..	..	..	..	..	..	
(e) Minor produce .. Mds.	532	41,137	41,669	107	1,221	1,328	1,628	
<i>Central Circle.</i>								
I (a) Timber C.ft.	89,109	19,907	109,016	19,007	8,187	27,194	26,968	
(b) Fuel	323,963	602,561	926,524	46,613	10,520	57,133	56,920	
(c) Bamboos No.	3,229	14,728	17,948	180	3,011	3,191	3,191	
(d) Sandalwood C.ft.	446	..	446	4,986	..	4,986	4,981	
(e) Minor produce .. Mds.	47,734	5,611	53,345	5,883	2,275	8,158	8,163	
<i>Southern Circle.</i>								
I (a) Timber C.ft.	73,839	126,882	200,721	59,213	70,662	1,29,875	1,34,134	
(b) Fuel	218,762	698,810	917,572	10,522	21,546	32,068	31,909	
(c) Bamboos No.	6,242	5,739	11,981	671	113	784	679	
(d) Sandalwood C.ft.	2,614	1,034	3,648	24,714	10,400	35,114	35,114	
(e) Minor produce .. Mds.	15	14,286	14,281	113	39,052	39,165	39,337	
<i>Grand Total.</i>								
I (a) Timber C.ft.	181,595	183,729	365,324	86,048	95,511	1,79,559	1,88,661	
(b) Fuel	581,864	1,419,238	2,001,102	68,656	32,139	1,00,795	1,33,723	
(c) Bamboos No.	10,222	25,087	35,309	759	3,385	4,144	4,301	
(d) Sandalwood C.ft.	3,060	1,034	4,094	29,700	10,400	40,100	40,085	
(e) Minor produce .. Mds.	18,281	61,014	79,295	6,403	42,518	48,921	49,128	
Grand total of sales during the year both from forests and depôts							4,08,782	4,10,808
Add outstandings due from previous year as per Form No. 66							7,456	..
Total							4,16,238	..
Deduct amount of outstandings written off							525	..
Do. realized as per Form No. 64							4,10,808	..
Balance outstanding on 30th June 1893							1,906	..

Timber and other produce cut, collected and removed by consumers or purchasers during 1892-93 (from 1st April 1892 to 30th June 1893).

ANNUAL FORM NO. 72-A.

Forest Department, Madras Presidency.

District.	Timber.	Firewood and charcoal.	Bamboos.	Timber.		Firewood and charcoal.		Bamboos.		Grazing and fodder.		Minor produce.		Total.	
	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.
Northern Circle.															
Ganjam ..	167,815	17,999	2,311,740	Rs. 17,999	Rs. 7,763	Rs. 7,763	Rs. 8,186	Rs. 8,186	Rs. 2,642	Rs. 2,642	Rs. 3,739	Rs. 3,739	Rs. 40,319	Rs. 40,319	Rs. 40,319
Vizagapatam ..	79,087	2,519	6,396,569	2,519	6,988	6,988	5,895	5,895	75	75	3,382	3,382	18,869	18,869	18,869
Godavari ..	307,352	29,471	104,145	29,471	10,662	10,662	35,560	35,560	4,356	4,356	9,029	9,029	89,107	89,107	89,107
Kistna ..	327,329	21,875	104,145	21,875	13,849	13,849	35,560	35,560	4,356	4,356	9,029	9,029	99,892	99,892	99,892
Anantapur ..	39,330	6,458	12,794	6,458	2,711	2,711	204	204	1,559	1,559	15,319	15,319	26,251	26,251	26,251
Bellary ..	104,311	7,980	82,806	7,980	4,645	4,645	1,656	1,656	3,943	3,943	23,231	23,231	41,456	41,456	41,456
Taluk ..	238,688	37,204	2,207,975	37,204	9,086	9,086	16,605	16,605	10,846	10,846	9,444	9,444	83,135	83,135	83,135
Total ..	1,364,512	1,23,528	11,858,261	1,23,528	55,644	55,644	68,609	68,609	68,670	68,670	82,538	82,538	3,99,018	3,99,018	4,02,890
Central Circle.															
Nellore ..	167,522	12,164	725,750	12,164	2,562	2,562	111	111	15,055	15,055	14,904	14,904	44,796	44,796	44,796
Cuddapah ..	33,044	18,175	2,818	18,175	19,857	19,857	7,267	7,267	10,954	10,954	79,546	79,546	1,35,799	1,35,799	1,35,799
Chingelput ..	59,447	4,321	426,322	4,321	10,393	10,393	259	259	5,403	5,403	24,878	24,878	45,254	45,254	45,254
North Arcot ..	62,273	10,335	340,000	10,335	33,774	33,774	29,341	29,341	11,669	11,669	53,986	53,986	1,39,103	1,39,103	1,39,103
South do. ..	20,117	7,694	403,952	7,694	28,992	28,992	3,407	3,407	8,623	8,623	42,744	42,744	91,720	91,720	91,720
Tanjore ..	217,152	13,350	753,085	13,350	8,374	8,374	5,394	5,394	5,904	5,904	6,158	6,158	15,078	15,078	15,078
Tiruchinopoly ..	306,865	26,753	4,125,980	26,753	32,015	32,015	31,500	31,500	18,300	18,300	26,907	26,907	69,068	69,068	69,068
Salem ..	976,333	96,557	6,460,979	96,557	1,50,804	1,50,804	77,824	77,824	76,365	76,365	2,99,925	2,99,925	1,58,885	1,58,885	1,58,885
Total ..	2,651,615	2,65,677	20,610,728	2,65,677	2,99,264	2,99,264	1,72,312	1,72,312	2,11,942	2,11,942	5,41,293	5,41,293	14,89,378	14,89,378	14,91,297
Southern Circle.															
Madura ..	26,157	12,031	126,000	12,031	7,435	7,435	1,262	1,262	1,014	1,014	59,865	59,865	40,974	40,974	40,974
Tinnevely ..	22,048	6,731	180,000	6,731	44,762	44,762	1,705	1,705	4,280	4,280	20,413	20,413	77,965	77,965	77,965
North Coimbatore ..	52,194	421,200	1,030,000	421,200	12,717	12,717	10,298	10,298	41,250	41,250	43,429	43,429	1,14,228	1,14,228	1,14,228
South do. ..	21,053	875,793	650,000	875,793	14,333	14,333	6,457	6,457	14,614	14,614	9,026	9,026	49,724	49,724	49,724
Nilgiris ..	16,826	46,054	23,363	46,054	1,412	1,412	2,406	2,406	4,936	4,936	3,232	3,232	16,003	16,003	16,003
North Malabar ..	17,504	4,644	40,041	4,644	16	16	16	16	455	455	8,748	8,748	9,454	9,454	9,454
South do. ..	84,759	3,987	153,084	3,987	4,922	4,922	1,631	1,631	128	128	363	363	11,021	11,021	11,021
South Canara ..	10,259	2,444	89,000	2,444	6,109	6,109	1,336	1,336	66,688	66,688	1,37,450	1,37,450	28,633	28,633	28,633
Total ..	250,900	2,51,731	2,281,488	2,51,731	91,706	91,706	25,850	25,850	2,11,942	2,11,942	5,41,293	5,41,293	3,88,655	3,88,655	3,98,513
Grand total ..	2,651,615	2,65,677	20,610,728	2,65,677	2,99,264	2,99,264	1,72,312	1,72,312	2,11,942	2,11,942	5,41,293	5,41,293	14,89,378	14,89,378	14,91,297
Add outstanding due from previous year as per Form No. 66														13,774	13,774
Deduct amount of outstanding written off, &c.														15,03,152	15,03,152
Do. realized during the year as per Form No. 64														1,760	1,760
Balance outstanding on 30th June 1893 as per Form No. 66														30,095	30,095

ANNUAL FORM No. 72-B.

Forest Department, Madras Presidency.

TIMBER and other Produce confiscated and sold during the year 1892-93 (from 1st April 1892 to 30th June 1893).

District.	TIMBER.		FIREWOOD.		BAMBOO.		Minor produce in value.	Total amount of sales.	Amount actually realized.
	Quantity in cubic feet.	Amount of sales.	Quantity in cubic feet.	Amount of sales.	Number.	Amount of sales.			
<i>Northern Circle.</i>		RS.		RS.		RS.		RS.	RS.
Ganjām ..	3,335	605	961	49	430	1	14	609	669
Visagapatam ..	1,773	57	277	6	91	2	105	170	170
Godāvari ..	17,182	4,226	3,314	98	300	4	26	4,354	4,354
Kistna ..	1,841	135	604	32	4,320	32	74	273	273
Anantapur ..	50	9	3,097	328			53	385	385
Bellary ..	46	38	954	92			4	134	134
Kurnool ..	2,642	852	597	39	768	4	44	989	939
Total ..	26,869	6,922	9,804	639	5,909	43	320	6,924	6,924
<i>Central Circle.</i>									
Nellore ..	335	35	343	17		3	278	52	52
Ouddapah ..	1,175	562	128	12	80			853	854
Chingleput ..	206	120	122	11	100	1	18	132	132
North Arcot ..	862	169	4,913	244	1,260	8	77	439	439
South do. ..	3,002	105	14,560	227	100	1	6	500	500
Tanjore ..			52	6				6	6
Trichinopoly ..	337	351	1,378	41	455	10	30	432	432
Salem ..	2,229	1,403	992	84	24,300	29	22	1,538	1,538
Total ..	7,946	2,835	22,388	642	26,355	52	423	3,952	3,953
<i>Southern Circle.</i>									
Madura ..	2,683	227	1,030	29			3	259	259
Tinnsvelly ..	28	21	4,734	171			19	211	211
North Coimbatore ..	204	66	273	10	3,370	39	5	120	120
South do. ..	756	90	818	66	3,500	39	46	241	241
Nilgiris ..	40	9	105	6	218	2	1	18	18
North Malabar ..								1	1
South do. ..	4	1	40	1	136	2	11	15	15
South Canara ..	4,275	675	982	36	2,192	21	38	664	664
Total ..	7,990	980	7,982	318	9,614	103	119	1,529	1,529
Grand Total ..	42,905	9,746	40,174	1,592	41,878	198	862	12,405	12,406
Add outstanding due from previous year as per Form No. 66 ..								13	
Deduct amount of outstanding recovered and apparently adjusted under V ..								12	
Do. realized during the year as per Form No. 66 ..								12,406	
Balance outstanding on 30th June 1893 ..									

* Rs. 12 outstanding in 1891-92 against Tanjore appears to have been recovered and adjusted against V.

ANNUAL FORM No. 73-A.

Forest Department, Madras Presidency.

Abstract showing the Value of Timber and other produce at sale depôts for the year 1892-93.

District.	Description of timber or produce.	ON HAND AT COMMENCEMENT OF THE YEAR.			ON HAND AT END OF THE YEAR.			DIFFERENCE IN VALUE.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
	<i>Northern Circle.</i>			RS.			RS.	RS.	RS.
Ganjām ..	Sal logs ..	224	1,462	548	209	4,320	1,620	1,072	..
	„ sleepers ..	54	100	104	27	94	54	..	54
	„ alabs ..	6,721	..	105	69	7	1	..	104
	Miscellaneous ..	64	1,026	144	1	16	2	..	142
	Total, Timber ..		2,588	905		4,437	1,677	772	..
	Firewood ..		5,806	181					181
	Bamboos ..			105					105
Visagapatam ..	Ironwood ..	2	40	40	2	40	40	..	..
	Miscellaneous ..	6	120	120	6	120	120	..	..
	Total, Timber ..		160	160		160	160	..	..
Godāvari ..	Teak ..					18	27	27	..
	Ironwood ..					12	18	18	..
	Total, Timber ..					30	45	45	..
Kistna ..	Firewood ..		4,762	72					72
Anantapur ..	Minor produce ..				Mds. 56		139	139	..
	<i>Central Circle.</i>								
Nellore ..	Firewood ..		19,091	2,552		19,294	2,267	..	285
Ouddapah ..	Redwood roots and stumps ..		77,526	15,327					15,327
	Miscellaneous ..		470	294		245	40	..	254
	Total, Timber ..		77,996	15,621		245	40	..	15,581
	Minor produce ..	Mds. 40,660		20,711	Mds. 4,464		585	..	20,126
North Arcot ..	Miscellaneous timber ..					220	31	31	..
	Redwood posts ..					958	246	240	..
	Total, Timber ..					1,178	271	271	..
	Firewood ..		1,715	128		6,086	1,373	1,245	..
	Bamboos ..					750	15	15	..
Trichinopoly ..	Sandalwood roots ..		91	361		73	359	..	2
	Miscellaneous timber ..		342	211		(a) 2	1	..	210
Trichinopoly ..	Firewood ..		3,136	260		2,960	182	..	78
Salem ..	Sandalwood ..	1ba. 19		1		531	6,271	6,270	..

(a) Vengai included under Miscellaneous in 1891-92 report.

Abstract showing the Value of Timber and other produce at sale depôts for the year 1892-93—cont.

District.	Description of timber or produce.	ON HAND AT COMMENCEMENT OF THE YEAR.			ON HAND AT END OF THE YEAR.			DIFFERENCE IN VALUE.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
	<i>Southern Circle.</i>			RS.			RS.	RS.	RS.
Madura	Firewood	..	2,456	241	..	10,435	1,169	928	..
	Charcoal	..	2,218	186	..	686	58	..	128
Tinnevely	Miscellaneous	Mds. 2	12	12	..	385	191	179	..
	Minor produce	7 23	..	114	..	..	..	..	114
North Coimbatore.	Sandalwood billet and roots	..	1,686	1,645	..	627	16,441	14,796	..
	Miscellaneous	No. 380	..	85	..	..	..	..	85
	Bamboos	No. 750	..	10	..	..	..	..	10
South Coimbatore.	Teak	..	12,316	17,110	..	18,498	27,888	10,778	..
	Redwood	..	106	106	..	508	180	..	106
	Miscellaneous	..	4,275	2,561	..	..	..	..	411
	Total, Timber	..	16,697	19,777	..	18,801	28,066	8,281	..
	Firewood	.. lb.	20,743	1,779	..	..	..	..	1,779
	Minor produce	3	..	6	..	..	..	..	6
Nilgiris	Miscellaneous timber	..	374	498	..	254	219	..	287
	Firewood and charcoal	..	22,013	1,630	..	26,979	1,940	310	..
South Malabar.	Teak	..	5,119	1,500	..	2,179	3,268	1,768	..
	Fuel	..	32	2	..	..	..	..	2
	Minor produce	Mds. 74	..	5	..	..	..	..	5
South Canara.	Teak	..	381	621	..	167	759	138	..
	Rosewood	..	124	109	..	25	27	..	22
	Miscellaneous	..	3,999	3,278	..	2,261	2,168	..	1,110
	Vengai	..	..	..	..	67	60	..	..
	Total, Timber	..	4,504	4,008	..	2,820	3,014	..	194

ABSTRACT.

<i>Northern Circle.</i>									
Timber	..	..	2,748	1,085	..	4,627	1,882	817	..
Firewood	..	..	10,658	253	..	..	..	..	..
Bamboos	..	No. 8,535	..	106	..	..	..	..	..
Minor produce	..	..	..	..	Mds. 56	..	139	139	..
<i>Central Circle.</i>									
Timber	..	..	78,338	15,832	..	1,425	312	..	15,520
Sandalwood	..	..	91	362	..	604	6,266	..	..
Firewood	..	..	23,942	2,940	..	28,349	3,822	882	..
Bamboos	..	No. 750	..	..	..	..	15	15	..
Minor produce	..	Mds. 40,560	..	20,711	Mds. 4,464	..	585	..	20,126

Abstract showing the Value of Timber and other produce at sale depôts for the year 1892-93—cont.

District.	Description of timber or produce.	ON HAND AT COMMENCEMENT OF THE YEAR.			ON HAND AT END OF THE YEAR.			DIFFERENCE IN VALUE.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
ABSTRACT—cont.									
Southern Circle.									
				RS.			RS.	RS.	RS.
	Timber	..	27,336	25,848	..	24,436	34,730	8,882	..
	Sandalwood	..	1,686	1,645	..	627	16,441	14,796	..
	Firewood	..	47,462	3,838	..	38,100	3,167	..	671
	Bamboos	No. 750	..	10	..	..	..	..	10
	Minor produce	Mds. 16	..	125	..	..	..	..	125
Grand Total.									
	Timber	..	108,422	42,745	..	30,498	36,924	..	5,821
	Sandalwood	..	1,777	2,007	..	1,231	23,071	21,064	..
	Firewood	..	81,962	7,031	..	66,449	6,989	..	42
	Bamboos	No. 9,285	..	115	No. 750	..	15	..	100
	Minor produce	Mds. 40,576	..	20,836	Mds. 4,520	..	724	..	20,112

ANNUAL FORM No. 73-B.
Forest Department, Madras Presidency.
Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1892-93 (from 1st April 1892 to 30th June 1893).

Districts.	SURVEYING, &c., INSTRUMENTS				TOOLS				MACHINERY				FURNITURE			
	On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Northern Circle.																
Direction ..	24	402	24	402	..	..	..	..	..	..	..	..	109	1,790	109	1,790
Ganjam ..	39	643	47	852	186	364	189	280	..	..	..	..	55	410	58	422
Vizagapatam ..	13	23	18	343	75	111	75	85	..	..	..	..	36	317	40	286
Goddavari ..	62	637	56	534	602	1,084	602	1,109	..	..	..	..	62	412	85	688
Kistna ..	51	635	60	739	480	416	451	451	..	..	..	..	59	461	67	585
Anantapur ..	59	321	44	247	325	325	149	614	..	..	..	..	36	328	78	170
Bellary ..	33	138	37	137	237	396	267	437	..	..	..	..	38	271	38	232
Kurnool ..	64	289	55	507	572	719	572	719	..	..	..	..	53	449	58	456
Total ..	335	2,918	341	3,761	2,082	3,333	2,270	3,675	..	..	..	..	468	4,438	533	4,809
Central Circle.																
Direction ..	19	349	19	249	..	..	..	..	..	..	..	..	..	186	31	186
Nellore ..	60	395	61	404	357	1,032	473	1,211	..	..	..	..	..	414	76	423
Cuddapah ..	78	406	103	690	377	591	474	1,396	..	..	..	..	..	637	114	813
Chingleput ..	24	382	23	380	289	644	293	733	..	..	..	..	..	446	..	762
North Arcot ..	21	639	21	632	1,105	2,345	1,380	2,513	..	..	..	..	..	554	117	547
South Arcot ..	75	1,325	115	1,415	734	459	919	662	..	..	..	..	..	1,495	170	1,550
Tanjore ..	23	412	23	412	210	16	210	16	..	..	..	..	..	421	46	17
Trichinopoly ..	9	150	9	150	1,038	1,220	1,087	1,233	..	..	..	..	..	60	66	618
Salem ..	46	150	106	531	301	1,572	1,115	2,167	..	..	..	..	..	60	321	1,481
Total ..	355	4,258	458	4,763	4,405	7,379	6,011	9,930	45	58,502	72	60,092	611	4,213	1,042	6,297

* Collectors do not explain the variation between these and previous years' figures. † Value not given.

Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1892-93—cont.

Districts.	Buildings				Live-stock				Miscellaneous				Total					
	On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.			
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.		
	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Northern Circle.																		
Direction ..	..	..	..	..	..	..	..	..	27	121	27	121	160	2,313	160	2,313	..	..
Ganjam ..	25	9,698	20	11,148	..	..	..	3,000	18	200	17	183	322	11,215	333	15,885	4,670	..
Vizagapatam ..	15	613	16	855	..	..	..	..	1	10	1	10	89	976	150	1,559	563	..
Goddavari ..	26	4,261	26	4,261	..	..	..	1,585	140	2,304	363	2,453	885	10,158	1,135	10,600	442	..
Kistna ..	47	7,193	48	8,429	..	..	..	..	22	2,702	6	2,450	568	11,461	597	12,664	1,203	..
Anantapur ..	10	10,915	13	12,567	..	..	..	..	99	244	..	..	315	12,093	284	13,898	1,806	..
Bellary ..	4	1,315	4	1,305	..	..	..	..	23	108	26	89	325	2,228	372	2,200	..	28
Kurnool ..	50	19,851	53	19,932	..	..	..	..	16	75	16	70	745	21,426	734	21,684	298	..
Total ..	177	53,856	180	58,497	1	1,500	5	4,585	346	5,326	456	5,386	3,409	71,870	3,785	80,803	8,923	..
Central Circle.																		
Direction ..	..	..	..	..	..	..	..	..	19	40	19	40	89	475	89	475	..	..
Nellore ..	9	3,114	9	2,079	..	..	..	..	63	5,036	240	5,154	562	42,635	74	44,073	1,438	..
Cuddapah ..	112	17,771	104	18,982	2	32	2	37	22	182	..	..	674	33,566	797	35,865	2,299	..
Chingleput ..	16	3,265	17	3,288	..	..	..	..	40	154	31	27	413	4,891	34	5,190	299	..
North Arcot ..	40	6,015	37	6,725	..	..	..	..	169	343	..	..	1,489	21,516	24	21,438	..	78
South Arcot ..	12	6,136	13	7,650	..	..	..	..	480	1,544	584	1,612	1,470	11,230	1,811	13,160	1,930	..
Tanjore ..	5	326	5	326	..	..	..	..	22	477	1	..	280	419	285	419	..	..
Trichinopoly ..	10	2,062	10	2,062	..	..	..	..	224	479	229	368	1,339	4,594	1,351	4,592	..	2
Salem ..	..	..	17	12,886	..	..	..	..	268	545	2	14	616	2,127	1,696	17,090	14,963	..
Total ..	204	38,689	212	53,998	2	32	2	37	1,307	8,400	1,106	7,275	6,932	1,21,473	8,930	1,42,322	20,849	..

Collectors do not explain the variation between these and previous years' figures. † Collectors omit to explain the omission.

Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1892-93—cont.

Districts.	SURVEYING, &c., INSTRUMENTS				Tools				MACHINERY				FURNITURE			
	On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<i>Southern Circle.</i>																
Direction	57	944	65	823	345	4,091	606	5,285	30	..	..	..	116	1,065	90	682
Madura	49	833	62	960	603	710	840	1,237	2	..	..	..	181	1,340	144	1,314
Tinnevely	25	77	37	630	473	55	522	1,231	..	170	..	178	156	74	310	1,868
South Canibatore	50	59	50	39	662	..	652	..	3,206	42,447	3,206	42,447	171	49	160	1,383
South do.	31	985	26	282	681	1,172	653	1,270	4	1,820	4	1,820	64	575	74	940
Nilgiris	37	513	44	1,257	65	1,166	472	902	17	108	10	..	44	225	40	395
North Malabar	10	323	13	409	809	555	472	513	..	..	..	..	84	245	112	1,018
South do.	36	63	42	577	496	940	407	544	..	..	..	..	..	..	..	..
South Canara	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	295	3,103	395	5,618	4,124	7,903	4,219	11,042	3,229	11,513	3,234	44,565	795	3,573	1,101	7,247
Grand Total	965	10,279	1,221	14,082	10,614	18,614	12,500	21,647	3,874	1,04,043	3,306	1,04,587	1,874	12,224	2,076	18,443

* Collectors do not explain the variation between these and previous years' figures.

† Value not given.

Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1892-93—cont.

Districts.	BUILDINGS				LIVESTOCK				MISCELLANEOUS				TOTAL			
	On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	35
<i>Southern Circle.</i>																
Direction	78	15,261	91	24,262	..	..	..	..	154	686	139	364	749	21,997	295	1,717
Madura	76	8,811	94	16,556	..	..	..	..	144	356	..	..	1,035	12,225	897	31,684
Tinnevely	42	7,946	43	9,252	..	..	..	..	146	90	148	291	842	3,122	1,320	26,797
North Canibatore	29	157	39	157	..	7,700	..	..	316	..	316	..	4,431	50,412	910	12,807
South do.	10	6,160	48	6,203	5	2,600	7	7,000	12	75	11	80	837	12,687	4,431	60,412
Nilgiris	24	26,933	24	27,273	17	17,502	21	31,400	168	976	117	57	115	7,372	819	12,775
North Malabar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	128	19,066
South do.	20	3,208	20	3,208	..	..	..	..	212	305	320	1,149	1,089	46,619	687	61,168
South Canara	..	..	..	..	..	..	..	..	..	..	..	..	..	..	901	6,496
Total	300	65,168	349	86,901	35	34,202	42	49,560	1,159	2,495	1,658	3,059	9,946	1,60,987	10,398	2,07,922
Grand Total	690	1,57,713	741	1,99,396	85	5,734	49	54,172	2,812	16,721	2,620	15,720	20,287	3,64,330	23,113	4,31,047

* Value not given.

† Collectors omit to explain the omission.

ANNUAL FORM No. 74.

Forest Department, Madras Presidency.

STATEMENT of Live-stock during 1892-93 (from 1st April 1892 to 30th June 1893).

PART I.

In possession of the reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep, including servants and food.	RS. A. P.
<i>Northern Circle.</i>				
<i>Elephants.</i>				
Ganjām	Badamoti Guz Jung Bahadur	Transferred from the Gōdāvari district in 1891-92.	Per head	47 1 11
Gōdāvari	Pown Guz	Purchased in July 1888	Do	52 11 8
<i>Southern Circle.</i>				
<i>South Coimbatore.</i>				
	1. Sankara 2. Chlo 3. Karthiyayani 4. Peria Rani 5. Sinna Rani 6. Abdul	June 1888. Received from North Malabar. August 1888. Received from South Malabar. May 1889. Received from South Malabar. August 1891. Received from South Malabar. Captured 4th October 1891	Do	39 12 5
Nūlgiris	1. Latchmi 2. Chinna Latchmi 3. Maba Baksh 4. Akbar Baksh 5. Meenatchi	Transferred from the Anamalais on the 30th January 1892. Born in January 1885. Do. on 22nd February 1888. Do. on 9th April 1889.	Do	19 3 2
North Malabar	1. Phyllis 2. Peri 3. Kalyani 4. Lallameah	Purchased in January 1878. Captured in April 1889. Purchased in October 1889. Captured in March 1891.	Do	39 3 8
<i>South Malabar.</i>				
	1. Vixon 2. Payra 3. Samson 4. Eva 5. Thebau 6. Juno 7. Jupiter 8. Mars 9. Maharaj 10. Jembu 11. Gordon 12. Eddy 13. Mary 14. Loo 15. Hercules 16. Parvathi 17. Jessie	Transferred from Wynad in 1882. Purchased from Mr. Morgan in 1886. Captured on 3rd January 1886. Do. on 17th February 1886. Do. on 9th January 1887. Do. on 24th January 1887. Transferred from Wynad in 1888-89. Captured on the 11th February 1889. Do. 10th February 1890. Do. 31st March 1890. Do. 24th April 1890. Do. 24th December 1890. Transferred from South Coimbatore in August 1891. Captured on 10th December 1891.	Do	29 12 5
<i>Other Cattle.</i>				
North Malabar	1. Two bullocks	Purchased in May 1890	Do	9 7 10

Statement of Live-stock during 1892-93—cont.

PART II.

Received during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep, including servants and food.	RS. A. P.
<i>Southern Circle.</i>				
<i>Elephants.</i>				
South Coimbatore.	1. Phyllis II 2. Jumbo II 3. Pragasm 4. Elsie 5. Cerise 6. Alice 7. Ranger	Captured 25th September 1892	Per head	30 8 8
		Captured 23rd September 1892		
	1. Cherry 2. Charlie	Captured in May 1892 Do. in February 1893	Do	31 3 2
	1. Flo 2. Dora 3. Tippu 4. Maharani 5. Venus	Born on 10th October 1892 Captured 10th January 1893 Do. 25th February 1893 Do. 2nd March 1893 Do. 1st April 1893	Do	18 1 1
	<i>Other Cattle.</i>			
	1. One bullock	Purchased in June 1892	Do	9 5 5

PART III.

Gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep, including servants and food.	How disposed of.
<i>Elephants.</i>				
South Coimbatore.	1. Maude	Captured July 1891	Per head	36 0 3
	2. Cerise 3. Elsie 4. Ranger	Captured 23rd September 1892.		
South Malabar	1. Dora	Captured 10th January 1893.	Per head	18 1 1
<i>Other Cattle.</i>				
	1. Two Kodaikanal bulls. 2. Two Navanipatti bulls. 3. Two bulls in the Gundanshola Depôt.	Purchased in 1885. Do. in 1886. Purchased in 1889, of this, one was obtained by way of exchange giving Rs. 15 extra.	Do	9 9 5

Sold on 20th July 1892 for Rs. 300

Died.

Handed over to the Zamorin Maharaja on receipt of $\frac{1}{2}$ of her value.

Sold.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Land Revenue), dated 17th November 1893, Forest No. 786 :—

Read—files of reports received from Collectors and Conservators on the progress of Forest Administration for 1892-93.

Resolution—dated 17th November 1893, Forest No. 786.

The Board begs to submit to Government its progress report of Forest Administration in the Madras Presidency for the fifteen months ending 30th June 1893.

2. The portions of the Northern and Central Circle Conservators' reports dealing with technical subjects, viz., natural and artificial reproduction and exotics, have been printed as an appendix to the Board's report. The report received from the Conservator, Southern Circle (Mr. Cherry), contained no information of any value in regard to practical forestry. To supply the defect an abstract of the district reports of this Circle on the subject is printed in Appendix E.

3. Although the special attention of Collectors was drawn to the numerous omissions noticed in the report for 1891-92, the Board regrets that many similar omissions have been found in the district reports now under review. The District Forest-officers concerned should be warned to be more careful and also more punctual in future.

4. The information from the districts necessary for the compilation of the statistical returns was not complete in the Board's office till the 23rd October.

(A true Extract.)

(Signed) W. S. MEYER,
Secretary.

ORDER—dated 29th December 1893, No. 1103, Revenue.

Forest No. 398.

With its Proceedings of November 17, 1893, read above, the Board submits its annual report on the administration of the Madras Forest Department during the year 1892-93. The period under review has been extended to June 30, in order to cover the special forest year which has now been declared to end on that date; the figures given in the report accordingly relate to a period of 15 months, and this fact has to be borne in mind in comparing them with the statistics of previous years. The report was received in the Government office on December 2, the date prescribed for its submission being November 15.

2. *Administrative changes.*—The most important administrative changes introduced during the period under review were (1) the introduction of the scheme of reorganisation of the superior staff of the Forest Department, and (2) the abolition of the office of the Examiner of Forest Accounts and the transfer of that officer's examination and audit work to the Accountant-General. The scheme of reorganisation sanctioned by the Government of India in July 1891 was not introduced until June 1892, although, as indicated in paragraph 2 of last year's review, it was given retrospective effect from 21st October 1891. The transfer of the audit to the Accountant-General was only sanctioned by the Government of India in November 1892, and the scheme could not therefore be brought into effect before the commencement of the current financial year.

3. *Areas and boundaries.*—The areas under the control of the Department at the commencement and at the close of the period under review are shown in detail in the statement appended to paragraph 9 of the report, and are reproduced in abstract below:—

	Area on 1st April 1892.	Added during 15 months ending June 30, 1893.	Excluded during the same period.	Area on 30th June 1893.	Net increase or decrease.
Reserved forests	7,175	2,441	198	9,418	+ 2,243
Do. lands	9,404	1,075	2,728	7,751	- 1,653
Total ..	16,579	3,516	2,926	17,167	+ 588

In former years a third item was added to this list under the head of "other forests," but this has now been rightly excluded, as the areas in question were not under the control of the Department. In accordance with the policy of Government the areas classed as "reserved lands" are gradually being settled under Chapter II of the Act and gazetted as "reserved forests," and the area shown as having been excluded from the former class of reserves has, for the most part, become absorbed in the latter. The total increase to the area of reserved forests would have been larger but for the exclusion of 178 square miles in the Tinnevely district owing to the rectification of areas after survey. As the Board points out, the increase is mainly the result of the notification of large areas in Kistna, Bellary, Cuddapah, North and South Arcot and Salem, and more especially in Kurnool (though the Board has omitted to notice this fact) where four large blocks aggregating an area of 658 square miles were gazetted during the year as "reserved forests."

4. The total area under the control of the Department on June 30, 1893, was 17,167 square miles, or slightly less than one-third of the whole extent of lands at the disposal of Government. The areas under control in the various districts are shown in Abstract B appended to paragraph 10 of the report, and, as pointed out by the Board, vary very considerably, being 67.8 per cent. of the unoccupied area in Coimbatore and 64.5 per cent. in the Nilgiris, and averaging less than 20 per cent. in the districts of Ganjam, Anantapur, Chingleput and Malabar, and only 3.1 per cent. in Tanjore. The work of selection of further areas for reservation is being pushed on and is said to have been completed in North Arcot and Salem. In the districts

of Gódvári, Chingleput, Madura, Malabar and the Nilgiris, moreover, the extent of final reservation has practically been determined, and the Board has recently submitted a report from the Collector of Nellore containing definite proposals for the formation of reserves in his district. But, as shown in Appendix C of the report, there remains out of the area, already brought under control, a considerable balance of 1,669 square miles to be transferred for settlement, and adding to this the area of future selections, which was recently estimated by the Board at 5,872 square miles (Board's Proceedings read in G.O., No. 233, dated 14th March 1893), it is evident that much work will have to be done before the reservation of forests in the whole Presidency can be brought to a close. The completion of the Revenue survey in Anantapur and South Canara, the last two districts of the Presidency remaining unsurveyed, will, however, facilitate the work of selection and settlement of forests in those districts.

5. *Settlement.*—The details of the progress made in the work of forest settlement are shown in Appendix A of the report. The total area finally gazetted as "reserved forest" during the 15 months under review is compared below with the corresponding figures of previous years:—

AREAS notified under section 16 of Act V of 1882 and coming into force during the year.

1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93, i.e., 15 months ending June 30, 1893.
SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
716	404	307	1,374	2,063	2,261

This statement shows that during the last four years the outturn of settlement work, as evidenced by the final notifications, has steadily increased. The work of the Special Forest Settlement-officers is reviewed in paragraph 17 of the report, in which it is shown that 246 blocks with an aggregate area of 2,036 square miles were finally gazetted after settlement by these officers; the corresponding figures in the previous year were 164 and 2,765. The Board points out that there has also been a general falling off in the total area settled and reported on, but it is observed that the total number of blocks so settled was considerably in excess of the number settled in 1891-92, the figures being 198 and 122 respectively. As noticed in previous reports, the size of a block is not necessarily any criterion of the difficulty of settling it, and the number of claims put forward, the intricacy of the boundaries selected, and the nature of the country, in which the block is situated, have also to be taken into account. The work performed by all the special officers, with the exception of Mr. Lever, appears to have been satisfactory. The Government has already directed the submission of an early report on the poor returns of work shown by Mr. Lever (G.O., No. 3961, dated 2nd November 1893). The outturn of settlement work by Revenue Divisional officers was not satisfactory, and now that the Secretary of State has negatived the proposal to appoint an additional Settlement-officer for the two Northern districts, the Collectors of those districts should see that the work is taken in hand as soon as possible by the ordinary Revenue staff. There were in Ganjam 49 blocks with a total area of 442 square miles pending with Divisional officers on June 30, 1893, and in Vizagapatam 16 blocks with a total area of 249 square miles. Of the blocks awaiting settlement in Ganjam, 23 with an aggregate area of 394 square miles were notified for settlement so far back as 1884-85, and the Government trusts that endeavours will be made to clear off these long-standing arrears. The delay is attributed mainly to the inadequacy of the sketch-maps originally prepared. The question of preliminary forest surveys has already been fully dealt with in G.O., No. 875, dated 10th October 1893, and in the Board's Proceedings read therein, and His Excellency in Council will only reiterate the opinion that the possession of an accurate map of the proposed reserve at the commencement of operations is the cornerstone of the whole settlement.

6. *Demarcation*.—The following table shows the outturn in miles of preliminary and permanent demarcation for the last three years:—

	1890-91.	1891-92.	1892-93.
Preliminary demarcation	345	1,864	2,627
Permanent do.	2,343	2,429	2,837
Total	2,688	4,293	5,464

The work done under each head shows a considerable increase on that performed in previous years. The figures of 1891-92 are, however, admittedly inaccurate and the value of the above comparison is therefore but small. It is observed that the details of the demarcation completed up to the end of 1891-92, and of the charges incurred, as shown in last year's report, differ very largely from those now furnished, and it is merely stated that statistics then given were incorrect. The great divergence between the figures in question is demonstrated in the subjoined statement, and the explanation given by the Board is quite inadequate:—

	Miles.	Cost.	Average cost per mile during 1891-92.
Preliminary demarcation. { As given in last year's report.	7,395	Rs. 65,927	Rs. A. P. 8 14 8
{ As now given	4,773	38,898	6 8 4
Permanent do. { As given in last year's report.	14,349	1,72,026	Total average cost per mile. Rs. A. P. 12 1 2
{ As now given	12,868	1,83,204	14 8 10

7. The figures of outturn during the period under review are possibly more reliable than those of the previous year, but the statistics of cost are apparently of no value. The total charges shown under the head of demarcation in the audited accounts amount to Rs. 73,804, whereas the figures in Abstract G and in paragraph 22 of the report give a total of Rs. 53,794. Moreover, the details of cost in the various districts, as shown in this abstract, differ vitally from the Accountant-General's figures in form No. 64, and the average district rates per running mile, which are reviewed at length by the Board, are probably almost entirely worthless. Taking, however, the total amount of demarcation of all kinds performed during the period under review, and calculating on the figures of cost shown in the audited accounts, the average rate per running mile for the Presidency comes to Rs. 13½, as compared with Rs. 11 for the two preceding years worked out on the same principles. This increase is unsatisfactory, but is partly accounted for by the fact that heavy charges were incurred in Anantapur and Cuddapah on stone walls which were erected as famine works. The large expenditure during the 15 months under review calls, however, for further inquiry, and the matter should engage the attention of the Board and Conservators. The Government trusts that every endeavour will be made to obtain more reliable statistics of this important work and of the cost thereof.

8. *Surveys and working plans*.—These subjects are fully dealt with in Chapter III of the Board's report. The large increase of outturn shown by the Survey of India Party is very satisfactory, and the steady decrease in the cost rate per square mile, noticed in previous years was at the same time maintained. The returns of departmental work are not encouraging, but the Government is glad to learn that arrangements have now been made for the training of Foresters in survey work. The great success of the schools recently started by the Superintendent, Revenue Survey, for the

training of karnams, would indicate that no great difficulty should be experienced by Forest subordinates in qualifying themselves to perform this duty, and the system of training adopted in respect of Revenue Inspectors should, *mutatis mutandis*, be applied to Foresters and Rangers. The objections raised by the Government of India, when reviewing the annual report of 1891-92, in regard to the administration of preliminary surveys, have been dealt with in G.O., No. 875, dated 10th October 1893, to which allusion has already been made in paragraph 5 *supra*. The progress made in the preparation of working plans, as remarked by the Board, is necessarily delayed until selection and settlement are further advanced and the subordinate staff is increased.

9. *Forest offences*.—The following statement compares for each Circle (1) the number of cases for disposal, (2) the number disposed of, (3) the number of acquittals (4) the percentage of cases compounded to cases disposed of, and (5) the percentage of acquittals to the number of cases dealt with by the magistracy:—

STATEMENT of Forest offences.

		Number of cases for disposal.		Number of cases disposed of.	
		Cases pending at beginning of the year.	New cases.	Cases withdrawn.	Cases compounded.
1		2	3	4	5
Northern Circle	{ 1891-92	349	2,010	2,359	3
	{ 1892-93	468	3,328	3,796	58
Central Circle	{ 1891-92	513	4,723	5,236	244
	{ 1892-93	887	5,168	6,055	526
Southern Circle	{ 1891-92	174	1,391	1,565	53
	{ 1892-93	201	2,409	2,610	112
Total	{ 1891-92	1,036	8,124	9,160	300
	{ 1892-93	1,556	10,900	12,461	696

		Number of cases disposed of—cont.		Number of acquittals.	Percentage of cases compounded to cases disposed of.	Percentage of acquittals to cases dealt with by magistracy.
		Cases dealt with by magistracy.	Total.			
		7	8	9	10	11
Northern Circle	{ 1891-92	1,293	1,891	302	31.5	23.3
	{ 1892-93	2,162	2,862	425	22.4	19.7
Central Circle	{ 1891-92	1,766	4,848	415	53.8	23.5
	{ 1892-93	2,222	5,387	580	49.0	23.4
Southern Circle	{ 1891-92	737	1,369	211	42.3	28.6
	{ 1892-93	1,292	2,229	273	37.0	21.1
Total	{ 1891-92	3,796	7,608	928	46.1	24.4
	{ 1892-93	5,676	10,478	1,218	39.2	21.5

There has again been a large increase in the number of offences of which the Forest Department has taken cognizance, and the total number of cases taken up during the period under review is considerably more than double the number returned in 1889-90. The increase has been steady in recent years, but, as pointed out by the Board, the high figures shown in the present report are partly due to the fact that the transactions relate to a period of 15 months. The details are fully reviewed in paragraphs 30-37 of the Board's report. The highest percentage of acquittals (55) is shown against the Madura district, and the Government agrees with the Board in considering that this result is specially discreditable, for the same district

returned one of the highest percentages of acquittals in the previous year, and particular attention was then drawn to the matter. The District Forest-officer, Mr. Gass, should have explained his failure to pay attention to this important subject.

10. The Conservator's report on the numerous murders of Forest subordinates in the Cuddapah district, alluded to in paragraph 36 of the report, has since been received, and both the Conservator and Collector agree in ascribing these unfortunate occurrences mainly to the general lawlessness of the people. In a separate report the District Forest-officer has also brought to notice another instance of this feeling in the obstruction offered to the Forest-officers in the demarcation of a proposed reserve. The Government understands that the Collector has now taken this matter in hand. It is feared, however, that the recent outbreak of crime in this district gives evidence of insufficient control on the part of the superior officers; the Forest charge is a large one, and in the opinion of Mr. Gamble, the former Conservator, would provide work for four officers of the controlling staff, but the Collector and his Forest Assistants must devote more attention to the supervision of their subordinates. According to the evidence produced in the Sessions Court, the murders in question were to a great extent brought about by the extortionate practices of the low-paid officials of the Department, and His Excellency the Governor in Council trusts that the Collector and his Assistants will use their best endeavours to stamp out this evil, which is nothing less than a reproach to the administration.

11. *Forest fires and fire protection.*—The amount expended upon the protection of forests from fire was large, but the results obtained were generally satisfactory, only 2 per cent. of the protected areas in the Northern and Southern Circles being burnt. The average cost per square mile rose from less than Rs. 10 in the previous year to more than Rs. 13. There was also a large rise in the number of cases of incendiarism, 101 such offences being prosecuted as against 60 in the previous year, but as pointed out by the Board, the period under review covers one entire fire-season and part of another.

12. *Grazing.*—The receipts from grazing fees, grazing contracts and the sale of grass, for the 12 months ending with March 1893, amounted to Rs. 1,75,589 as compared with Rs. 1,83,722 realized during the preceding year, thus showing a decrease of about Rs. 8,000. The recent ruling contained in G.O., No. 647, dated 18th July 1893, to the effect that only such revenue as is derived from produce, over which the Forest Department exercises actual, and not constructive, supervision, should be credited to "Forests", will tend to diminish the above receipts in future years, for a considerable portion of them will hereafter be credited to "Land Revenue." The decrease in the year under review is mainly attributed to the fact that the season was one of better rainfall and that pasture was therefore available outside the reserves. This explanation cannot, however, be given much weight, because in the year 1891-92 grazing was allowed free or on reduced rates in several districts on account of the distress then prevailing. The decrease of nearly Rs. 10,000 in North Coimbatore should have been explained. The improved arrangements made in South Arcot for the collection of grazing fees resulted in the total receipts in that district being more than doubled during 1892-93. The Government notes that the majority of District officers are in favour of abolishing the present distinction between agricultural and non-privileged cattle, and the Board's promised report on the subject is awaited. The failure of the experiments in grass-cutting and hay-making undertaken during the last two years is to be regretted. The total loss to Government on account of the charges thus incurred amounted to Rs. 13,765. The Government agrees with the Board in considering that under more favorable conditions and judicious management the system ought to be worked successfully, but it would be inadvisable to renew the experiments until the Department is better fitted to cope with the work now devolving on it. Great care should also be taken to select proper localities where the demand is likely to be commensurate with the supply.

13. *Reproduction.*—In reviewing the report of 1891-92, the Government of India remarked that the publication was wanting in a sufficient summary of the information relating to the technical subjects dealt with in chapter IV, and the Conservators

were accordingly directed to amplify their notes thereon. The Conservators of the Northern and Central Circles have recorded their remarks upon natural and artificial reproduction during the year, and these have been printed as Appendix F to the report. His Excellency in Council has perused these notes with interest and regrets to learn that the remarks recorded by Mr. Cherry, the Conservator, Southern Circle, were not considered by the Board to be of any practical value. The Government does not, however, consider that the information afforded in Appendix F supplies the want indicated by the Supreme Government, for no summary of the notes is given and the details are more or less disjointed. It would be well if in future years the Senior Conservator were to compile a separate report on the subjects dealt with in this chapter, reviewing the operations of the whole Presidency. Separate orders will be issued on this subject when a reply has been received from the Government of India to the reference made under G.O., No. 875, dated 10th October 1893. It is satisfactory that the results of continuous protection are already very noticeable in various reserves, and the Conservator, Northern Circle, observes that the contrast between the present and the former condition of the forests is in some instances most marked. The total expenditure on plantations and cultural operations amounted to Rs. 64,797 as against Rs. 50,756 in the previous year. The bulk of these charges was incurred on plantations in the Central and Southern Circles.

14. The following statement shows the details of plantations, topes and cultural operations in the last two years:—

STATISTICS OF PLANTATIONS AND CULTURAL OPERATIONS.

				Plantations.		Topes.	
				Area in acres.	Cost in rupees.	Area in acres.	Cost in rupees.
1				2	3	4	5
Northern Circle	..	1891-92	.. .. .	934	2,593	3,517	1,204
		1892-93	.. .. .	936	3,008	3,542	1,902
Central Circle	..	1891-92	.. .. .	13,426-15	21,563	10,486	4,661
		1892-93	.. .. .	13,429-15	36,749	10,315-99	6,577
Southern Circle	..	1891-92	.. .. .	6,398-91	12,622	14,621-98	2,287
		1892-93	.. .. .	6,323-19	18,377	14,584-45	327
Total	..	1891-92	.. .. .	20,759-06	36,778	28,524-98	8,152
		1892-93	.. .. .	20,388-34	48,134	28,392-44	8,806

				Cultural operations.		Total.	
				Area in acres.	Cost in rupees.	Area in acres.	Cost in rupees.
				6	7	8	9
Northern Circle	..	1891-92	.. .. .	422-16	1,688	4,873-16	5,486
		1892-93	.. .. .	459-16	1,872	4,937-16	6,782
Central Circle	..	1891-92	.. .. .	3,831	2,143	27,743-15	28,367
		1892-93	.. .. .	+ 100 mls.	3,673	+ 27,618-14	35,776
Southern Circle	..	1891-92	.. .. .	+ 100 mls.	2,172-20	+ 100 mls.	16,904
		1892-93	.. .. .	2,484-12	3,535	23,093-09	22,239
Total	..	1891-92	.. .. .	6,425-36	5,826	55,709-40	50,756
		1892-93	.. .. .	+ 100 mls.	7,857	+ 56,187-06	64,797
				+ 100 mls.		+ 100 mls.	

15. *Communications and Buildings.*—The total outlay on these works during the 15 months under review was Rs. 1,00,306 as compared with Rs. 72,497 in the preceding year, the percentage of outlay on the gross revenue being 5.1 and 4.2 respectively.

The expenditure on buildings was heavy, and it is observed that the charges so incurred in the Southern Circle exceed the corresponding outlay in the other two circles combined. The necessity for this heavy expenditure in the Southern districts is not explained. More than half the money was spent in the two districts of Madura and Tinnevely alone, and the Government fears that sufficient check is not exercised by the Conservator and Collectors. The charges vary very considerably in the different districts. In Kurnool and Kistna the average cost of a hut for forest guards or watchers appears to be about Rs. 50, whereas in Madura between Rs. 500 and Rs. 600 were spent on such buildings at various places, and "gardeners' quarters" at Gundan sholah cost Rs. 880. In Tinnevely also the charges appear to be heavy; tannah huts are valued at about Rs. 200 and expensive bungalows have been erected in several localities. In South Coimbatore "clerks' and peons' quarters" have been erected at a cost of Rs. 500, while "guards' huts" are charged at about Rs. 100; the expenditure on the depôt at Pollachi is also noticeable, the figure being Rs. 1,000. The Board's special attention is called to this matter.

16. The expenditure on roads appears, on the other hand, to be insufficient, and the scheme for the general development of forest communications, alluded to in the Board's report, should be expedited. Outlay under this head should eventually be productive of increased revenue, for lines of communication are in many cases almost entirely wanting, and the produce of the forests cannot be brought upon the market. Expenditure on buildings is doubtless very necessary, but should be curtailed as far as possible, and great care must be taken to prevent the waste of money on small works, which the list given in Appendix I would seem to indicate.

17. *Tramways.*—The figures given in Appendix H to demonstrate the financial results of the tramways working in Nellore, North Arcot and South Coimbatore are interesting, but it would be better to adopt a uniform method of calculating the gain and loss for all tramways. According to the statistics furnished, the amount saved by the transport of casuarina fuel by tramway in Nellore was more than Rs. 3,000 during the year. It should have been explained why the estimated charge for country carts was taken at annas 13-11 per ton mile for the Nellore casuarina plantations and at only annas 3-9 for the Sriharikôta range. The details of revenue and expenditure for the Cuddapah tramway are not understood.

18. *Yield and Working.*—The subjoined statement gives particulars of the yield of the forests during the last three years:—

COMPARATIVE statement of yield for the past three years.

	Timber including sandalwood.	Fuel.	Bamboos in number.	Minor produce in rupees.
	C. FT.	C. FT.	NO.	RS.
1890-91	3,802,497	12,108,215	18,223,447	6,58,811
1891-92	3,086,937	13,987,173	31,160,765	6,40,843
1892-93 (15 months)	2,966,566	12,138,665	20,779,393	8,03,265
Average yield for 12 months in 1892-93	2,373,244	9,710,952	16,623,514	6,42,504
Net increase or decrease during the 15 months of 1892-93 as compared with 1891-92	— 120,381	— 1,848,608	— 10,371,372	+ 1,62,418
Net increase or decrease in the average yield for 12 months of 1892-93 as compared with that of 1891-92	— 713,693	— 4,276,221	— 14,527,251	+ 1,762
Average percentage of increase or decrease *	— 28	— 31	— 47	+ .03

* *Note.*—The Board of Revenue has calculated the percentage of increase or decrease upon the figures of 1892-93 (15 months) as compared with those of 1891-92 (12 months). But the above figures represent the average percentage and have been calculated upon the average yield of 12 months of 1892-93 as compared with that of 1891-92.

The decrease in the number of bamboos is large, and occurs entirely under the head of removals by private agency. In Kistna a bamboo forest is reported to have been closed against cutting. The very large decrease in North Arcot (from 9,139,700

in 1891-92 to 426,322 in 1892-93) should have been explained. There was a decrease under every head except minor produce, and this is accentuated by the fact that the figures for 1892-93 relate to the operations of 15 months. The details are fully examined in chapter V of the report. The falling off in the figures of the period under review appears to have been mainly the result of the slack demand and of the large stocks of produce remaining undisposed of at the commencement of the year.

19. The comparative cost of departmental and private working and the net profit under each system are shown in the statement appended to paragraph 64 of the report. The figures must be more or less hypothetical, because it is necessary to make an arbitrary apportionment of the establishment charges between the two systems. The method adopted by the Board in the present report and in that of the preceding year is, however, the fairest that can be devised. The following table compares the results of the two years:—

	Rate of net profit in	
	1891-92.	1892-93.
<i>Departmental working.</i>	RS. A. P.	RS. A. P.
Timber per cubic foot	+ 0 3 0	+ 0 1 3
Fuel	— 0 0 1	— 0 0 1
Bamboos (each)	— 0 0 4	+ 0 0 3
Sandalwood per cubic foot	+ 5 10 2	+ 10 9 0
Minor produce per maund	— 0 1 2	— 0 10 3
<i>Private working.</i>		
Timber per cubic foot	+ 0 1 2½	+ 0 1 4
Fuel	+ 0 0 2½	+ 0 0 4
Bamboos (each)	+ 0 0 0·7	+ 0 0 1
Grazing	(Rates not ascertainable.)	
Minor produce		
Total net profit	RS. 1,49,242 3,37,644	RS. 1,70,269 4,34,355

20. From this statement it appears that in each year the departmental working of timber and sandalwood showed a profit, while fuel and minor produce were worked at a loss. The net rate of loss of 4 pies per bamboo shown in 1891-92 has now been converted into a net profit of 3 pies. The net rate of profit on timber has, on the other hand, fallen from 3 annas per cubic foot to one anna and a quarter, while the figures for sandalwood show that the rate of profit has been nearly doubled. The most noticeable feature is the loss under minor produce, which is now shown as 10½ annas per maund: the total net profit under the corresponding head for private working is, on the other hand, more than double that realized for any other kind of produce, except fuel. In 1891-92, departmental working of minor produce showed a net loss of 1½ annas per maund and the profit from private working was again largely in excess of that obtained under other heads. These figures would seem to indicate the inadvisability of working minor produce under direct Government agency. The decision on this subject must not, however, be based purely on considerations of revenue. In hilly districts and in all localities where the jungles are situated at some distance from the market, the contract system is liable to embitter the jungle tribes against the Forest Department, and their assistance in working the forests is thereby forfeited. The matter is one of considerable importance, and the Government desires to receive a special report thereon. The statistics of profit and loss furnished in the present report should be carefully examined, and it should be ascertained whether the system of departmental working cannot be continued without loss to the State.

21. *Financial results.*—In the following statement the financial results of the 12 months ending 31st March 1893, and of the 15 months ending 30th June 1893, are compared with those of 1891-92:—

	Northern Circle.				Central Circle.			
	1891-92.	1892-93 (12 months).	April, May and June 1893.	Total for 15 months in 1892-93.	1891-92.	1892-93 (12 months).	April, May and June 1893.	Total for 15 months in 1892-93.
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts	4,38,680	3,57,732	96,337	4,54,669	7,01,855	7,01,279	1,62,320	8,63,699
Charges	2,70,151	2,88,842	77,394	3,66,236	4,63,929	4,78,218	1,17,094	5,95,342
Surplus or deficit	1,68,529	68,890	18,943	87,833	2,37,926	2,23,061	45,226	2,68,357
Increase or decrease as compared with 1891-92 during	(1) 12 months ending 31st March 1893.				(1) 12 months ending 31st March 1893.			
	— 99,639				— 14,895			
	(2) 15 months ending 30th June 1893.				(2) 15 months ending 30th June 1893.			
	— 80,596				+ 30,331			

	Southern Circle.				Total.			
	1891-92.	1892-93 (12 months).	April, May and June 1893.	Total for 15 months in 1892-93.	1891-92.	1892-93 (12 months).	April, May and June 1893.	Total for 15 months in 1892-93.
10	11	12	13	14	15	16	17	18
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts	5,53,680	5,18,201	1,29,949	6,48,150	16,94,215	15,77,212	3,88,606	19,65,818
Charges	5,32,074	5,63,168	1,14,182	6,77,350	12,66,164	13,30,258	3,08,670	16,38,928
Surplus or deficit	21,606	44,967	15,767	29,200	4,28,051	2,46,954	79,936	3,26,890
Increase or decrease as compared with 1891-92 during	(1) 12 months ending 31st March 1893.				(1) 12 months ending 31st March 1893.			
	— 66,573				— 1,81,107			
	(2) 15 months ending 30th June 1893.				(2) 15 months ending 30th June 1893.			
	— 50,806				— 1,01,171			

The results of the past official year have been already fully reviewed by Government in passing orders on the budget estimates of the Forest Department for 1894-95 and do not now call for any special remarks. The surplus for the 15 months of 1892-93, as compared with that of the official year 1891-92, shows a slight increase in the Central Circle, while there was a decrease in both the Northern and Southern Circles amounting in all to Rs. 1,31,502. The net result of the period under review is a decrease in the surplus of receipts over expenditure of Rs. 1,01,171 as compared with the surplus of 1891-92. The figures for the past 5 years and of the 15 months under review are shown below :—

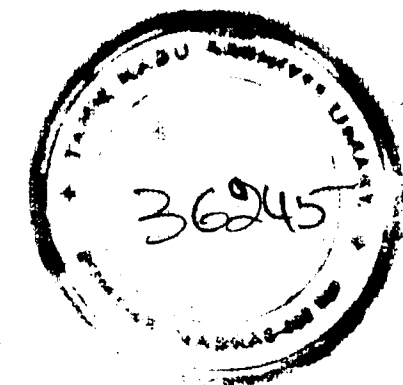
	Receipts.	Charges.	Surplus.
	Rs.	Rs.	Rs.
1888-89	16,16,006	12,16,674	2,98,332
1889-90	16,57,627	11,85,358	3,92,269
1890-91	17,95,408	12,58,284	5,42,124
1891-92	16,94,215	12,66,164	4,28,051
1892-93 { (1) 12 months ending 31st March 1893.	15,77,212	13,30,258	2,46,954
{ (2) 15 months ending 30th June 1893..	19,65,818	16,38,928	3,26,890

22. In conclusion, His Excellency the Governor in Council desires to place on record his thorough appreciation of the excellent arrangements made by Mr. Arundel, the Commissioner now in charge of the Forest Department, for the general supervision

of his subordinates and for the control of their operations. It is observed that Mr. Arundel was able to make tours of inspection through ten districts during the period under review, and others have since then been visited. The Forest Commissioner holds in this Presidency a position analogous to that of the Inspector-General of Forests in Provinces directly under the Supreme Government, and it is most desirable that the administration of the department should be largely influenced by his personal control. The present report affords ample evidence of the fact that Mr. Arundel is fully conscious of this important principle, and His Excellency in Council observes with satisfaction that systematic arrangements have been made to give effect thereto. The orders issued to Conservators and District Forest-officers in regard to the regular inspection of the forests under their charge form one instance in point, and it is further noted that periodical returns are now required of the progress of many operations which in former years have been carried on without any fixed system. The work of the department is doubtless hampered to a great extent by the insufficiency of the present subordinate staff, and there is reason to believe that much revenue is annually sacrificed on this account. The Right Honorable the Secretary of State has for the present postponed his sanction to the proposals made by this Government for an increase to the establishment, and the matter is still under consideration; but His Excellency in Council trusts that the scheme elaborated in 1891 may before long be approved, and the administration of the forests be thereby placed upon an efficient basis.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.



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