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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue

DEPARTMENT

G.O. No.	1108, Revenue	Press.
B.P. No.		Mis.
Dated	20-7-1878	197

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4-2-78,

GOVERNMENT OF MADRAS.
REVENUE DEPARTMENT.

20th July 1878, No. 1,108.

Read the following paper:—

No. 213. Proceedings of the Board of Revenue, dated 28th May 1878, No. 1,419.

Read the following letter from Lieutenant-Colonel R. H. BEDDOME, Conservator of Forests, to H. E. STOKES, Esq., Secretary to the Board of Revenue, dated Ootacamund, 31st October 1877, No. 940-A:—

I HAVE the honor to submit the report on plantations and fuel reserves for the official year ended 31st March 1877 received from the divisions marginally noted.

<i>Plantations.</i>	<i>Fuel Reserves.</i>
1. Ganjam.	1. Cuddapah.
2. Cuddapah.	2. North Arcot.
3. North Arcot.	3. South Arcot.
4. South Arcot.	4. Trichinopoly.
5. Trichinopoly.	5. Madura.
6. Madura.	6. Tinnevely.
7. North Coimbatore.	7. North Coimbatore.
8. South Coimbatore.	8. Salem.
9. Nilgiris.	9. Malabar.
10. Salem.	
11. South Canara.	
12. Malabar.	

2. Owing to increased statistical details required year by year in addition to numerous other reports and returns now required to be submitted, I beg that the Board will be good enough to fix the date of the submission of this report on the 31st October of each year, as it is impossible with my limited establishment to submit it earlier.

3. The information called for in paragraph 5 of the Board's Proceedings, embodied in G.O., dated the 25th April

1877, No. 1,551, will be submitted with the promised report upon the revised forms of plantations and fuel reserves after the completion of my inspection tour of South Arcot, &c., divisions.

4. With reference to paragraph 9 of the Board's Proceedings, dated the 6th October 1876, No. 2,525, I beg to state that the information therein called for is duly given in this report.

5. I have included in the list the Gumsur and Mettapoliem plantations, and also the sum of Rupees 80,000 paid for land at Nilambur in accordance with paragraphs 4 and 5 of G.O., No. 1,551, of the 25th April 1877.

6. Agreeably to paragraph 9 of the above Government Order, and to paragraph 7 of the Board's Proceedings, No. 604, dated the 13th February 1877, I have treated the expenditure according to the headings of the Budget, and included the proportionate share of establishment charges.

7. Adverting to paragraph 3 of G.O., No. 2,186, dated the 3rd July 1877, I beg to state that the sums expended on the South Arcot and Nilgiri plantations prior to their transfer to this department have been duly included in this report.

8. In consequence of the inclusion of the above charges, the figures under expenditure and receipts of the plantations and fuel reserves will differ greatly from those given in the Administration Report for 1876-77.

9. The subjoined statement shows the net difference between this and last year's special statements:—

10. I shall now proceed to review the progress made during the year.

11. *Plantations.*—The accompanying Statement A shows the total acreage, expenditure (inclusive of all charges incurred both in this and other Public Departments and also supervision charges), receipts and the present and prospective value of the Imperial plantations in each forest division, and the following is an abstract of it:—

Divisions.	Description of Trees.	Planted Acres up to 1876-77.	Expenditure including all charges up to 1876-77.	Receipts up to 1876-77.	APPROXIMATE ESTIMATE.	
					Present value.	Prospective Value.
			RS.	RS.	RS.	RS.
Ganjam	Experimental Teak, &c.	31½	295	..	11,330	Not received.
	Do. Red Sanders, &c.	50	5,923	25	10,447	45,332
Cuddapah ..	Firewood for Railway ..	926	36,483	..	..	44,283
	Experimental ..	25	3,062	..	..	2,000
North Arcot ..	Firewood ..	970	43,858	12,216	15,250	99,450
	Experimental ..	11½	984	..	200	3,883
South Arcot ..	Firewood ..	564½	38,972	534	8,759	34,455
	Experimental ..	789½	46,492	6,801	50,400	..
Trichinopoly ..	Do. ..	80½	5,574	..	7,128	1,06,430
Madura	Experimental. { Teak, &c. {	80	16,380	..	Not given.	..
	Firewood, &c. {	74	19,599	..	2,890	3,40,000
North Coimbatore.	Do. ..	17	3,952	..	17,000	..
	Mahogany ..	101	24,911	..	..	..
South Coimbatore ..	Experimental Teak, &c.	23	8,880	..	Vide General remarks under this division.	
	Teak, &c. ..	1,067	74,778	51,818		
Nilgiris	Sandalwood ..	5	1,678	..	..	45,000
	Timber (Australian Acacias)	109	11,131	..	..	Not received.
Salem	Sandalwood ..	3,368	3,22,891	1,24,773	..	204,00,000
South Canara ..	Teak ..	16,430	768	..	..	..
Malabar	Teak, &c. ..	Square yards.	..	..	..	..
Add expenditure incurred on Bhowany firewood for which no return was received ..		..	14,880	..	..	..
Do. do. abandoned plantations in Kurnool, Bellary, and Salem ..		..	3,908	..	..	..
Do. do. Notchipully and Poolampully merged into the Chennat Nair forests ..		8,258½ and 16,430 Square yards.	6,84,786	1,95,165	..	..

* N.B.—Inclusive of Rupees 80,000 paid for land purchased in Nilambur.

12. During the year 308½ acres have been planted out at a cost of Rupees 5,231, and the total area now under plantation is 8,258½ acres as compared with 7,914½ at the date of last report ending 31st March 1876; and the total expenditure from the commencement (including all charges that occurred both in the jungle and Imperial Conservancy, Public Works and other departments, and also the proportionate share of the cost of general establishment debitable to each, as well as sums expended on those which were abandoned, &c.,) has been Rupees 6,84,786 against Rupees 4,66,930 as exhibited in last report.

13. The receipts during the year have been Rupees 26,847 and from the commencement Rupees 1,95,185 from all sources.

14. The increase in the total area shown as planted is as follows: 3½ acres of the Gumsur experimental plantation, 33 shown in excess of last year in Nilambur, were the fractional parts of planted acres before being properly surveyed, and 308½ are the total area planted during the year under review.

15. Owing to two successive unfavorable seasons and the consequent excessive drought and famine, the general results of the plantations have been very unsatisfactory.

16. The greatest progress has been made in Trichinopoly 116½ acres and Nilambur 147 acres.

17. *Firewood Reserves.*—The accompanying Statement B shows the total acreage expenditure (inclusive of all charges incurred both in this and other Public Departments, and also supervision charges), and receipts from all sources. The subjoined is an abstract of it:—

Divisions.	Area reserved.	Area equal to fully stocked.	Expenditure up to end of 1876-77.	Receipts up to end of 1876-77.	APPROXIMATE ESTIMATE.	
					Present value.	Prospective value.
			RS.	RS.	RS.	RS.
Cuddapah	16,830	11,140	28,915	..	1,04,750	2,55,517
North Arcot	6,400	4,220	6,410	..	40,000	50,000
South Arcot	65,140	25,911	18,532	6,898	44,49,150	..
Trichinopoly	3,877	1,805½	10,175	2,307	46,000	..
Madura	17,440	2,914	3,792	2,318	19,680	59,040
Tinnevely	5,526	1,135½	10,924	3,730	11,730	14,456
North Mettapoliem	12,160	7,296	2,370	70	15,000	..
Coimbatore. { Sholakuray.	1,010	606	14,093	2,088	6,000	..
Salem	12,540	6,050½	25,247	3,920	1,22,448	..
Malabar	4,002½	2,260	*48,815	2,488	Not received.	..
	144,927½	63,338½	1,69,273	23,819	..	..

* N.B.—Inclusive of Rupees 45,000 paid from land purchased in Malabar.

18. The area of the firewood reserves has been increased by about 17,440 since last report, being the area of the Madura Reserves not shown last year.

19. The decrease of 6,828 acres is accounted for as follows.

20. One acre shown less in Tinnevely and 6,827 in Salem; the cause of the former is less shown than last year against Peerancolum, and the latter being the correct area ascertained by the Revenue Survey Party.

21. The total area under reserves now estimated at 144,927½ compared with 134,315½ at the date of last report.

22. The total area equal to fully stocked is 6,325½ one-fifth full, 15,185½ two-fifths full, 18,117½ three-fifths full, and 6,838½ four-fifths full, 16,873 acres full respectively.

23. The expenditure for the official year has been Rupees 22,342, and from the commencement Rupees 1,69,273 (inclusive of all charges incurred both in this and other Public Departments) against Rupees 1,46,929 as shown in last report.

24. The subjoined statement shows the net difference between this and last year's report.

Divisions.	EXPENDITURE UP TO 31ST MARCH 1876.			Remarks.	RECEIPTS UP TO 31ST MARCH 1876.			Remarks.
	As per last report.	As per this report.	Difference.		As per last report.	As per this report.	Difference.	
Cuddapah ...	Rs. 25,019	Rs. 25,020	+ 1	Difference of the fractional part of a rupee.	Rs. ...	Rs. ...	Rs. ...	Receipts from Jungle Conservancy prior to transfer of certain reserves to Forest Department. Mr. Hayne omitted to show last year, vide paragraph 3 of G.O., dated 21st February 1877, No. 759.
South Arcot ...	...	...	...		1,246	2,277	+ 1,031	
Tinnevely ...	...	...	...		1,753	1,867	+ 104	
Salem ...	22,001	22,002	+ 1	Difference of the fractional part of a rupee.	...	...	...	
Total ...	47,020	47,022	+ 2		2,999	4,134	+ 1,135	

25. The receipts during the year have been Rupees 12,978 and from the commencement Rupees 23,819 from all sources.

26. The following remark on the district returns will show what progress has been made in each division during 1876-77 under review.

PLANTATIONS.

27. GANJAM.—*Gumsur Experimental*.—The plantation was commenced in 1869-70; it is said that it consists of Teak, *Acacia Arabica*, *Poinciana regia*, *Sapindus emarginatus*, *Sumach*, *Inga dulcis*, *Mangifera Indica*, *Asoca Cordia Myxa*, *Cedrus deodara* and *Bignonia suberosa*. There were 414 trees, out of which 68 casualties are said to have occurred by white-ants, &c.

28. The Ranger in charge of this division reports that the Teak trees are thriving very well and are in a flourishing condition, owing to the soil being well adapted for them; the *Cedrus deodara*, *Sumach*, *Mangifera Indica*, *Bignonia suberosa* and *Cordia Myxa* are thriving pretty fairly, but the rest are of very poor growth. No further expense will be incurred on this plantation except Rupees 3 per annum, being the pay of a Mallee. Extension of this plantation is not contemplated.

29. Expenditure during the year was Rupees 58 (inclusive of supervision charges) and from the commencement Rupees 295. Receipts nil. Approximate estimate not received.

30. CUDDAPAH.—There are five plantations in this division, viz., 1 Red Sanders at Cadoor, and 4 firewood for the supply of Railway fuel to the Locomotive Department at Ooperapully, Reddipully, Pullumpett, and Camalapore.

31. *The Red Sanders Experimental Plantation*.—The extent of this is 50 acres near the Railway line at the Cadoor station surrounded by a ditch and aloe fence. In this plantation the Red Sanders has been a success; there are nearly 15,000 trees growing very straight and looking exceedingly healthy, and will be fit for felling in about 18 or 20 years. A few acres proved unfit for Red Sanders and were planted up with Teak and various other trees. These seem to be a failure, and the Teak trees are fast dying out.

32. It is not proposed to extend the planting of Red Sanders trees owing to the present uncertainty as to whether the planted trees will yield heartwood. The expenditure is now limited to the pay of a Maistry, whose services have been retained to look after the plantation. Every attention is being paid to the Red Sanders

trees and their progress carefully watched; owing to two bad seasons there have been casualties.

33. This plantation was started in 1865; the expenditure during the year has been Rupees 146, the cost of temporary establishment, and from the commencement Rupees 5,923. Receipts nil.

34. Approximate estimate—

	RS.
Present value ...	11,330
Prospective value ...	45,332

35. *Ooperapully—Fuel Plantation*.—This plantation is situated near the Railway line about 6 miles to the south of the Cadoor Railway station; it was commenced in 1868-69; the extent is 85 acres planted and 20 unplanted. The chief trees are *Pterocarpus santalinus*, *Acacia Arabica*, *Albizia lebbek* and *Amara*, *Eugenia jambolana*, *Casuarina equestifolia*, *Muddy*, *Tandra*, *Santalum album*, *Chloroxylon swietenia* and *Pongamia glabra*.

36. It has suffered much from the long drought and most of the trees are dying out: 8,159 casualties occurred during the year, but as the few trees of Tellatumah here and there are all looking healthy, it is contemplated to commence broadcast sowing of this when the seasons are favorable. No extra expense has been incurred, and only two men, at a cost of Rupees 13, are watching the plantation.

37. Expenditure during the year has been Rupees 179 and from the commencement Rupees 7,512. Receipts nil.

38. Approximate estimate—

	RS.
Present value ...	646
Prospective value quite uncertain, but given at ...	2,762

39. *Reddipully*.—This plantation lies about a mile and a half from Reddipully Railway station bordering on the west of the line with a planted area of 450 acres and unplanted 474, containing *Acacia Arabica*, *Albizia lebbek* and *Amara*, *Melia Azadirachta*, *Muddy*, *Tandra*, *Eugenia jambolana*, *Pongamia glabra*, *Casuarina equestifolia*, *Poinciana regia*, and *Mangifera Indica*. This plantation is not promising; most of the planted trees have perished from drought; the number of casualties during the year is 6,785. Except Tellatumah most of the trees have been a perfect failure; it is contemplated to sow the Tellatumah broadcast during the rainy season; expenditure is limited to the pay of two watchers, at a cost of Rupees 13 monthly.

40. Expenditure during the year has been Rupees 171 and from the commencement Rupees 12,287. Receipts nil.

41. Approximate estimate—

	RS.
Present value ...	5,748
Prospective value quite uncertain, but given at ...	24,376

42. *Pullumpett*.—This tract is divided into two plots lying on both sides of the Railway line and midway between the Reddipully and Rajampett stations about 4 miles each way. It was started in 1871-72; 169 acres planted with *Acacia Arabica*, *Albizia lebbek* and *Amara*, *Melia Azadirachta*, *Eugenia jambolana*, *Cassia florida*, *Tandra*, *Muddy*, *Inga saman*, *Casuarina equestifolia*, *Pongamia glabra*, and *Tamarindus Indica*.

43. This plantation may be considered a failure, as all the trees are dying out owing to the long drought and poor soil; before condemning it however and the other firewood plantations in this district, broadcast sowing of *Acacia leucophlea* (the Tellatumah) and *Prosopis* (Jamboo) will be undertaken during the rainy season as these trees promise good growth. No expenditure has been incurred other than the pay of 2 watchers, viz., Rupees 13.

44. Expenditure during the year was Rupees 178 and from the commencement Rupees 7,126. Receipts nil.

45. Approximate estimate—

Present value	RS. 2,511
Prospective value quite uncertain, but given at	10,616

46. *Camalapore*.—The plantation is situated about a mile from the Railway station and on the south bank of the Paupugnee river, with a planted area of 222 acres and 22 acres not planted; commenced in 1869-70.

47. It consists of *Acacia Arabica*, *Albizia lebbek* and *Amara*, *Casuarina equestifolia*, *Cassia florida*, *Inga saman*, and *Dulcis* and *Pongamia glabra*; the trees have suffered very much from drought, especially the *Casuarina*, of which a large number have died. The broadcast sowing of *Tellatumah* and *Jamboo* will be undertaken during the rainy weather. No extra expenditure has been incurred except the pay of two watchers, viz., Rupees 13 monthly.

48. Expenditure during the year has been Rupees 206 and from the commencement Rupees 9,336.

49. Receipts from the commencement Rupees 15 and during the year nil.

50. Approximate estimate—

Present value	RS. 1,542
Prospective value quite uncertain, given at	6,499

51. An attempt was made to plant experimentally (in the above four fuel plantations) Carob (*Ceratonia Tiliqua*) and the Misquith (*Prosopis juliflora*); the former is a failure, but the latter promises to be a success. The Carob is indigenous to the Levant and is not likely to grow in the plains at this latitude, though it will succeed at an elevation between 3,000 to 5,000 feet; the Misquith is from tropical America, and is said to be a drought-loving tree, the timber of which is valuable as first-class firewood and the pods as forage.

52. The gross expenditure of all the plantations in this division during the year has been Rupees 1,153 (inclusive of supervision charges) and from the commencement Rupees 42,406.

53. Receipts during the year nil, and from the commencement Rupees 15.

54. I inspected all the Cuddapah plantations during the year, and my report has been received by the Board and Government (*vide* G.O., No. 1,974, dated 13th June last).

55. *NORTH ARCOT*.—There are nine plantations aggregating a planted area of 995 acres; of which one is experimental at Amherdy, and the other eight are firewood at Trivellum, Veerinjeeppuram, Thengal, Keelminnel, Cheynoor, Gazulamandum, Vana-vadoo, and Ammoondy; they are almost entirely composed of *Casuarina* planted in sandy tracts in the vicinity of river beds. Owing to the failure of two successive monsoons the trees have been dying out considerably.

56. *Amherdy*, mixed timber, firewood, &c.; with a planted area of 25 acres, is situated near Culpot about twelve miles from Vellore; commenced in 1867-68. This is an experimental plantation; all the trees grow well, the growth of the *Inga saman* especially is rapid.

57. Number of casualties during the year is 3,000.

58. Expenditure during the year Rupees 103 (mainly for improvement and conservation) and from the commencement Rupees 2,997. Receipts nil.

59. Approximate estimate—

Present value	Unknown.
Prospective value	Valuable for experiments and for the yield of seed.

60. *Trivellum* is situated about eight miles east of the Vellore Railway station at the junction of the Poiney and Palar rivers; commenced in 1868 and finished in 1872; planted with 13,000 *Casuarina* trees at 15' x 15' over an area of about 435 acres; besides the above about 50,000 palmyras around the fencing and division blocks and 15,000 *Albizia*, &c.

61. It is reported that in 1872, 20,000 plants were destroyed by floods and in 1874, 25,000 plants died out from drought; since then very large numbers have died from heat and drought, and most of them were felled and sold.

62. It is stated that there are about 15,000 large trees from 50 to 80 feet high and 65,000 small plants from 3 to 6 feet high alive, besides the palmyras and *Albizia*, and it is proposed to plant out two lakhs of plants during the rainy season.

63. By an oversight Mr. Sheffield omitted the sum of Rupees 84 under total receipts which was subsequently included in this report on the receipt of satisfactory explanation from that officer.

64. The expenditure during the year was Rupees 1,120 (mainly for improvement and conservation) and from the commencement Rupees 14,686; the receipts have been Rupees 11,729.

65. Approximate estimate—

Present value of the 15,000 large trees is about Rupees 7,000, so that the plantation will more than repay all expenditure.

66. Prospective value—

Quite uncertain but Mr. Sheffield expects eight years hence 30 tons per acre at 3 Rupees per ton... = 39,150

67. *Veerinjeeppuram* is situated about one mile south of the Railway station of that name in the old bed of the Palar river. Commenced in 1870 and carried on till 1874, when 191,000 *Casuarina* plants were put out over an area of 260 acres, and in October of the same year about 80,000 plants were lost by flood, and since then a large number by drought and heat. It is reported that there are now probably 80,000 living trees, and most of them are small and of no marked value; the large trees are perhaps worth about Rupees 3,000, and the dead wood now being supplied to the jail will realize about Rupees 3,000.

68. Mr. Sheffield states that everything is ready for replanting the whole of the ground as soon as good rain sets in.

69. The expenditure during the year (chiefly for improvement and conservation) was Rupees 889 and from the commencement Rupees 10,994.

70. Receipts during the year Rupees 12 and from the commencement Rs. 12.

71. Approximate estimate—

Present value	RS. 3,000
Prospective value eight years hence when the whole is planted and fit for felling say 30 tons per acre, at Rupees 3 per ton	= 23,400

72. *Thengal* is situated about 1½ miles south of the Poiney Railway bridge and opposite to the Trivellum plantation. It is reported that the small quantity of wood on this plantation has been felled and sold, and it is not proposed at present to replant it.

73. The whole of the wood has not been paid for yet, but when it is the Deputy Conservator thinks the receipts will be about equal to the expenditure.

74. Mr. Sheffield suggests that this plantation (only about 9 acres) may be excluded from future reports, in which I fully concur.

75. The expenditure during the year has been Rupees 127 (mainly for improvement and conservation) and from the commencement Rupees 407.

76. Receipts during the year nil, and from the commencement Rupees 407.

77. *Keelminnel* is situated south of the Palar river opposite to the Trivellum plantation and about one mile from the Trivellum Railway station. The area planted is 150 acres of *Casuarina*; commenced in March 1873; destroyed by the flood in October 1874 and replanted in the same year; since then the drought of the past

two years has killed about 75 per cent. of the plants. It is reported that arrangements are now complete for replanting during the coming rainy season if it proves favorable. Number of casualties during the year 110,000.

78. The expenditure during the year (mainly for improvement and conservation) was Rupees 555, and from the commencement Rupees 3,598.

79. Receipts during the year Rupees 36, and from the commencement Rs. 36.

80. Approximate estimate—

	RS.
Present value of live and dead wood	1,500
Prospective value quite uncertain, but Mr. Sheffield estimates the probable value eight years hence when the whole is planted and ready for felling	13,500

81. *Cheyoor* planted with various trees and *Casuarina* over an area of about 81 acres, situated close to the line of Railway and two miles west of the Vellore station. It was commenced in 1870-71; 20,000 trees now growing, soil gravelly and very poor, and it is not intended to plant more or to go to any further expense beyond the pay of a watcher. Number of casualties occurred during the year is 61,000.

82. Expenditure during the year (chiefly for improvement and conservation) was Rupees 159, and from the commencement Rupees 5,097.

83. Receipts nil.

84. Approximate estimate—

	RS.
Present value	2,000
Prospective value ten years hence	5,000

85. *Gazulamandum*.—It consists of *Casuarina* over an area of $44\frac{1}{2}$ acres; commenced in 1871-72; it is situated close to the line of Railway and two miles south of the Tripatty station. This plantation has suffered greatly from drought as it lies high above the water land. No further planting will be undertaken. Number of casualties during the year 24,000.

86. Expenditure during the year (chiefly for improvement and conservation) has been Rupees 186, and from the commencement Rupees 2,983. Receipts nil.

87. Approximate estimate—

	RS.
Present value perhaps	500
Prospective value four years hence	1,000

88. *Vanavadoo*.—*Casuarina* with a planted area of 30 acres; commenced in 1873-74 and situated north of the Palar river near Wallajapett and about $4\frac{1}{2}$ miles from the Arcot Railway station. This is a small plantation; all planted up, but the growth is not good. Number of casualties during the year 10,000.

89. Expenditure during the year (mainly for improvement and conservation) was Rupees 216, and from the commencement Rupees 2,110.

90. Receipts during the year nil and from the commencement Rupees 32.

91. Approximate estimate:—

	RS.
Present value	1,250
Prospective value five years hence about	3,000

92. *Ammonoody*.—*Casuarina* over 10 acres with an area of 150 acres unplanted; situated in the Palar river about 6 miles west of Vellore and about 9 miles from the Railway station. Formed in 1874. Fences destroyed in the same year by flood; 21,000 planted in 1875-76; lost by drought about 15,000, and it is reported that all arrangements are now complete for planting 100 acres during the ensuing season if the weather is favorable.

93. Expenditure during the year (mainly for improvement and conservation) was Rupees 541 and from the commencement Rupees 2,053. Receipts nil.

94. Approximate estimate—

	RS.
Present value	Nil.
Prospective value 8 years hence when planted up and fit for felling	14,400

95. I inspected the whole of these plantations during the year under review, and have submitted a separate report on them on the 30th December 1876, which is now before the Board and Government.

96. Mr. Whiteside, the Collector, lately obtained the sanction of Government to utilize Rupees 3,000 from the famine grant for the upkeep by watering of some of these *Casuarina* tracts.

97. The total expenditure on all the plantations (inclusive of supervision charges) during the year amounted to Rupees 6,365 and from the commencement Rupees 46,920.

98. Receipts during the year Rupees 4,557 and from the commencement Rupees 12,216.

99. *SOUTH ARCOT*.—In this division there are 12 plantations with a planted area of $576\frac{1}{4}$ acres, out of which one is experimental at Chengum, and the remainder firewood at Trivanullore, Yedayur, Andrayanore, Gramam, Kumurumbett, Arasoor, Valore, Pooniar anicut, Merkanum, Agaram, and Achicadoo. These were transferred from jungle to Imperial conservancy on the 1st April 1875.

100. *Chengam Anicut (Experimental)*.—Containing forest and avenue trees over an area of $11\frac{3}{4}$ acres; formed in 1871-72; it is reported that during the year a fire occurred by the carelessness of a cattle driver and 380 casualties were the result, and many trees died from drought, of which 570 were replaced. The number of saplings that existed at the close of the year under review was 8,603.

101. Expenditure during the year (chiefly for improvement and conservation) was Rupees 79, and from the commencement Rupees 836. Receipts nil.

102. Approximate estimate—

Present value. Mr. Woolridge states that the value of the wood from saplings if now cut down would be Rupees 200, and the grazing is fully worth 12 Rupees a year but not leased out on account of young trees.

Prospective value quite uncertain, though Mr. Woolridge attempts to estimate it at 3,500.

103. *Trivanallore*.—*Casuarina*—situated in the Multar bed with a planted area of $172\frac{1}{2}$ acres. Operations commenced in May 1872; first field planted in September 1872; existing trees at the commencement of the year 48,874. The number of casualties in the year was 32,587 owing to the long drought.

104. It is stated that during the year 8 acres ("bare") were hard worked and sown with *margosa* and *Acacia speciosa* seeds. The weight of firewood obtained by felling and rooting out saplings is tons 77, cwt 13 and lbs. 28; it is stated that there is no balance of wood in stock.

105. Expenditure during the year (mainly for improvement and conservation and inclusive of charges, viz., Rupees 233-9-0, being cost for carriage of wood, &c., not included by Mr. Woolridge) was Rupees 655, and from the commencement inclusive of all charges, Rupees 14,570.

106. Receipts during the year Rupees 267, and from the commencement Rupees 349 from all sources.

107. Approximate estimate—

	RS.
Present value	2,000
Prospective value at date of felling, viz., in 1879, 1880, 1881, and 1882	4,465

108. The Conservator does not understand how such a large expenditure from Jungle Conservancy Funds has given such a poor result, but he has not yet been able to inspect this division. He is now proceeding there.

109. *Yadayur*.—Situated in the Multar bed, consists chiefly of *Casuarina* for railway fuel supply with a planted area of 30½ acres. Operations commenced in 1873, and the first field planted in October of the same year. Of the 30 acres originally planted, about 25 acres were washed away by flood or destroyed by drought; it is stated that there were 2,715 trees at the close of the year under review; casualties that occurred during the year were 6,849, of which 600 were replaced; 188 yards of fencing were carried out; 2 acres of the bare were dibbled with *Albizia speciosa*, *Margosa*, and *Cassia florida*.

110. The yield from felling and rooting out saplings during the year was 8 tons 18 cwt. 64 lbs.

111. Expenditure during the year (inclusive of extra charges for collecting, felling, and storing, viz., Rupees 26-14-5) has been Rupees 115, and from the commencement (inclusive of all charges) Rupees 1,645.

112. Receipts during the year Rupees 31, and from the commencement Rupees 40 from all sources.

113. Approximate estimate:—

Present value Rupees 225, viz.—	RS.	A.	P.
2000 poles at 1½ Annas each	187	8	0
Loppings	37	0	0
	224	8	0

114. Prospective value:—

Quite uncertain though Mr. Wooldridge attempts to estimate it at 605 Rupees in 1880.

115. *Andrayanore* is situated at the head of the Mutlar bed near the present Public Works Department coveyar bund; it consists chiefly of *Casuarinas* over an area of about 24½ acres commenced in 1873, and the first field planted in October of the same year. Of the land originally planted 22 acres have become quite bared by flood as already reported.

116. It is stated that the existing trees at the close of the year were 1,580, four and a half acres of the bare land were dibbled with *Acacia Arabica* and *Cassia florida*. Number of casualties during the year 3,470, of which 3,010 were rooted out and sold as dead wood.

117. The yield from felling and rooting out saplings was 1 ton 15 cwt. 54 lbs.

118. Expenditure during the year (inclusive of Rupees 2-15-6, being the extra expense for collecting and rooting out saplings) has been Rupees 51, and from the commencement inclusive of all charges, Rupees 1,144.

119. Receipts during the year Rupees 5, and from the commencement Rupees 33.

120. Approximate estimate—

Present value nil.
Prospective value quite uncertain, though Mr. Wooldridge attempts to estimate it at 300 Rupees in 1882.

121. *Gramam* is situated on the eastern side of the Multar bed and chiefly consists of *Casuarina* over an area of 62½ acres. It is reported that it was commenced in 1873 and the first field planted in September of the same year, and about 26 acres have become bare by casualties from both flood and drought; 11,706 casualties occurred during the year, out of which 1,713 were replaced. The yield from felling and rooting out saplings in the year was tons 7, cwt. 17 and lbs. 41.

122. Expenditure during the year (inclusive of Rupees 32-3-5, being the extra cost not included in the statement) was Rupees 520 and from the commencement Rupees 3,334.

123. Receipts during the year Rupees 26 and up to the end Rupees 26.

124. Approximate estimate—

Present value of wood on the plantation Rs. 784, viz.—	RS.
5,500 poles at 1½ Annas	516
14,560 yearlings, saplings, and loppings from poles	268
above given	784
Total	784

Prospective value quite uncertain, though Mr. Wooldridge attempts to estimate it at Rupees 3,555 in 1880-82.

125. *Kunnarumbut*, is situated in the Multar bed; it consists chiefly of *Casuarina* over an area of 69 acres commenced in 1873, and the first field planted in November of the same year; 34,425 trees existing at close of the year, 7,951 casualties occurred, of which 3,685 were replaced during the year under review; the yield was tons 10, cwt. 4, and lbs. 27.

126. Expenditure during the year (inclusive of Rupees 47-4-3, being the charges for collecting, felling and storing) was Rupees 683, and from the commencement Rupees 4,472 inclusive of all charges.

127. Receipts during the year has been Rupees 27 and from the commencement Rupees 32.

128. Approximate estimate—

Present value of wood Rs. 936, viz.—	RS.
6,000 poles at 1½ Annas	562
20,700 yearlings, saplings, and loppings from poles	373
Total	935

Prospective value quite uncertain, though it is estimated by the Deputy Conservator at Rupees 4,180 in 1880-82.

129. *Arasoor*.—Situated five miles east of Trivanallore in the Multar bed with an estimated area of 583½ acres—is a tract taken up for a *Casuarina* plantation, but planting has not yet commenced.

130. *Valore*, in the Trikaloor taluq, is a mixed plantation for firewood and Velvalum, Karuvalum, Katvalai, and Margosa for general use; it has an area of 139 acres, of which only 22½ have as yet been planted; operations begun in 1873, and the first field planted in December of the same year; 3,929 casualties having occurred, none of which were replaced.

131. Acres 4 were ploughed and sown with 91½ measures of *Acacia Arabica*, *A. Speciosa Margosa*, *Casuarina*, &c., at Rupees 9-4-0 per acre. The land lies at a high level, and it was quite bare at the commencement; and, owing to two successive unfavorable seasons it was found very difficult to get the ground at all well covered; the plantation was originally intended for Velvalum, as the bark of this tree is in great demand for distilling purposes.

132. Expenditure during the year has been Rupees 411 and from the commencement Rupees 1,575. Receipts nil.

133. Approximate estimate—

Present value of wood on the land	RS.
Prospective value quite uncertain, estimated at	125
	2,000

134. *Pooniar Anicut*.—This plantation consists chiefly of *Casuarina*, *Katvalai*, *Pongum*, &c., for Railway fuel; area 132½ acres, of which 49½ have been planted; the first field planted out in 1872; 10,435 trees existed at the close of the year, 1,842 casualties occurred during the year, of which 885 were replaced. The northern section of this plantation was destroyed by flood.

135. Expenditure during the year has been Rupees 263 and from the commencement Rupees 2,813.

136. Receipts in the year Rupees 12, and from the beginning Rupees 14.

137. Approximate estimate—

Present value Rs. 350, viz.—	RS.
4,500 poles at 1 Anna each	281
4,000 yearlings, saplings, and loppings from poles	69
Total	350

Prospective value quite uncertain, but estimated at Rupees 1,935 in 1880-82.

138. *Mercanum*, is a *Casuarina* plantation in the Tindivanam Taluq two miles from the sea, with an area of 127½ acres, of which 25½ are planted; 4,800 saplings were planted at a cost of Rupees 36-15-3—3,438 casualties occurred during the year.

139. During the year 3 acres of land were sown with thirty measures of Valum seeds; 2,420 yards of boundary fencing were carried out in March at a cost of Rupees 44-5-3 but the amount was not paid in the year.

140. Expenditure during the year has been Rupees 424 and from the commencement Rupees 787.

141. Receipts during the year Rupees 3 and from the commencement Rupees 33.

142. Approximate estimate—

Present value of wood on the plantation Rs. 750, viz.—		Rs.
1,900 poles at 4 Annas each	...	475
1,500 " " "	...	188
3,700 yearlings, saplings, &c	...	87
Total		750

Prospective value quite uncertain, though estimated by the Conservator at Rupees 2,050 in 1880-82.

143. *Agaram*.—Situated one mile from the sea and two miles to the south of Mercanum on grass land; area 128 acres, of which 79 $\frac{3}{4}$ are planted chiefly to the south of arina for railway fuel; 54,576 trees existed at the close of the year, 7,560 casualties occurred, of which 7,000 were replaced at a cost of Rupees 53-10-6; 25,800 trees of 1873 planting were pruned at a cost of Rupees 47-14-9, or Rupees 1-13-10 per 1,000 trees. The yield obtained from the above prunings was tons 8, cwts. 18, and lbs. 64; 3,472 yards of ditch 3 feet wide and 2 feet deep were dug and planted with aloes and katamanakai at a cost of Rupees 72-12-9.

144. Expenditure during the year has been Rupees 915, and from the commencement Rupees 3,685.

145. Receipts during the year Rupees 6, and from the common fund the com-

146. Approximate estimate—

Present value of wood on plantation Rs. 3,070, viz.—		Rs.
25,000 poles at 1½ Annas ..	...	
9,000 "	...	2,344
9,000 yearlings, saplings, and lopping from poles ..	...	562
	...	164
	Total ..	3,070

* 147. Prospective value quite uncertain, but estimated by the Deputy Conservator at Rupees 13,500 in 1880-82.

148. *Achicadoo* is situated on the sea-coast and four miles to the south of Mercanum, commenced in 1874; area 430 acres, of which about $22\frac{1}{4}$ acres are planted; consists chiefly of *Casuarina* planted irregularly in the bare patches among natural scrub, but the area planted has been calculated on the number of trees in the plantation. The growth is stated to be very promising: 16,175 trees existed at the close of the year, 3,228 casualties having occurred during the year, 250 yards of sectional fencing carried out at a cost of Rupees 2-11-0.

149. Expenditure during the year has been Rupees 526, and from the commencement Rupees 1,077, Receipts *nil*.

150. Approximate estimate—

	RS.
Present value of wood on plantation is Rs. 520, viz.—	422
4,500 poles at 1½ Annas each	98
6,000 yearlings, saplings, and loppings from poles	—
Total	520

Prospective value quite uncertain, though estimated at Rupees 2,165 in 1880-82.

151. Owing to the unusual drought and two successive unfavorable seasons, 83,500 casualties have occurred during the year; of these 63,105 were rooted out and sold as fuel, and the remainder proved unfit even as fuel; 112½ tons of firewood was the yield from these casualties.

152. The plantations have not been visited by the Conservator, but he is shortly proceeding to inspect them when a full report will be submitted; they were opened over by the Jungle Conservancy Department and only lately handed over to this Department.

153. The total expenditure on all the plantations in this division (inclusive of supervision and other charges) during the year has been Rupees 7,950 and from the commencement Rupees 39,956, including the cost incurred whilst they were under the management of the Jungle Conservancy Department.

154. Receipts during the year Rupees 377, and up to the end of 1876-77 were Rupees 534 from all sources.

155. **TRICHINOPOLY.**—There are sixteen plantations in this division, out of which three were newly added to the list during the year under review; the whole of the plantations are intended for the supply of firewood to the Railway Company; the planted area is about 700 acres and they are chiefly padagay lands along the banks of the Cauvery.

156. *Elamanore* comprises a planted area of 81 acres on the bank of the Cauvery close to the line of railway chiefly *Casuarina*; the trees are well grown, many of them having attained railway fuel size. The trees have been Rupees 375, and from the com-

157. Expenditure during the year has been Rupees 375, and from the commencement Rupees 934. Rupees 239, and from the commence-

158. Receipts during the year have been Rupees 239, and from the commencement Rupees 1,549 from all sources.

159. Approximate estimate—

Approximate estimate—	ES.
Present value at date recently taken up	17,000
Prospective value	not stated.

160. *Kulittalai*.—Area 62 acres all planted with casuarina, situate on the bank of the Cauvery; the growth is very good and will be fit for felling in two or three years.

161. Expenditure during the year has been Rupees 653, and from the commencement Rupees 7,390.

162. Receipts during the year have been Rupees 57, and up to the end Rupees 308 from all sources.

163. Approximate estimate—

	RS.
Present value...	13,000
Prospective do.	not stated.

164. *Manatallai*.—On the Cauvery bank, distance from the railway line $1\frac{1}{2}$ miles; the estimated area is $33\frac{1}{2}$ acres, soil sandy, $8\frac{1}{2}$ acres are planted with *Casuarina* and $1\frac{1}{2}$ acres with acacias. The growth is very good, but it will take some four years or so before the trees are fit to be felled, as the plantation is a new one.

165. Expenditure during the year has been Rupees 482, and from the commencement Rupees 1,993.

166. Receipts during the year Rupees 8, and from the commencement Rupees 101 from all sources.

167. Approximate estimate—

	RS.
Present value ...	2,300
Prospective do.	not given.

168. *Sittalvai* is situated on the Cauvery bank about a mile from the railway line, consisting chiefly of *Casuarina* over an area of 110 acres all planted.

169. The growth is splendid, but will require two or three years before felling can be carried out.

170. Expenditure during the year Rupees 576, and from the commencement 6,119 Rupees.

171. Receipts Rupees 60, and up to the end of the year Rupees 387 from all sources.

172. Approximate estimate—

	RS.
Present value ...	12,000
Prospective do.	not given.

173. *Sekkanum*.—On the Cauvery bank $1\frac{1}{2}$ miles from railway line; consists chiefly of *Acacia Arabica* (Babul) with a planted area of $92\frac{1}{2}$ acres; the growth is good and will be fit for felling some four or five years hence, about 20 acres remain to be planted.

174. Expenditure during the year has been Rs. 430 and from the commencement Rupees 1,961.

175. Receipts during the year have been Rupees 22, and from the beginning Rupees 585 from all sources.

176. Approximate estimate—

	RS.
Present value ...	7,000
Prospective do.	not given.

177. *Kuttalai*.—On the Ambravathy and Cauvery banks, distant from the railway line $1\frac{1}{2}$ miles; consists of *Casuarina* and Babul planted over an area of 52 acres; the growth is not very good, and it will take five or six years before the trees can be felled.

178. Expenditure during the year has been Rs. 1,372, and from the commencement 6,041 Rupees.

179. Receipts during the year have been Rupees 30, and from the commencement Rupees 151.

180. Approximate estimate—

	RS.
Present value...	8,500
Prospective do.	not given.

181. *Pudur* distant from the railway line about half a mile, a tank bed; area 94 acres, of which 86 have been planted with Babul in 1875; the seedlings coming up exceedingly well. It will take five years before felling can be commenced. Owing to much drought the number of casualties during the year were 3,900, the whole of which have been replaced.

182. Expenditure during the year has been Rupees 94, and from the commencement Rupees 276.

183. Receipts in the year 18 Rupees, and from the commencement Rupees 275.

184. Approximate estimate—

	RS.
Present value ...	4,500
Prospective do.	not given.

185. *Kolamanikkum*.—On the Coleroon bank, area $216\frac{1}{2}$ acres, of which $84\frac{1}{2}$ have been planted with *Casuarina* in 1874-75; distant from Tanjore 12 miles; the growth is good, but it will not be ready for felling for five or six years.

186. It requires to be extended as there are $157\frac{1}{2}$ acres more to be planted.

187. Expenditure during the year has been Rs. 1,130, and from the commencement Rupees 2,894.

188. Receipts during the year have been Rupees 121 and up to the end Rs. 221.

189. Approximate estimate—

	RS.
Present value ...	4,600
Prospective do.	not given.

190. *Aramanaikkurichi*.—Situated on the Coleroon, distant from Tanjore 11 miles; area $124\frac{1}{2}$, of which $32\frac{3}{4}$ acres are planted with *Casuarina* and Babul; growth not good, and it will take some five or six years before felling can be commenced. There is a considerable area still to be planted.

191. Expenditure during the year was Rupees 266, and from the commencement 1,278 Rupees.

192. Receipts during the year have been Rupees 131, and from the commencement Rupees 176.

193. Approximate estimate—

	RS.
Present value ...	1,800
Prospective do.	not given.

194. *Karaipakkum*.—On the Coleroon bank, 11 miles from Tanjore; area 236 acres, of which $29\frac{3}{4}$ acres have been cleared and planted with Babul, *Casuarina* and Kurkapilly. The growth is said to be fair; more than 200 acres remain to be planted.

195. Expenditure during the year has been Rs. 259, and from the commencement Rupees 897.

196. Receipts from the commencement *nil*, and during the year Rupees 25.

197. Approximate estimate—

	RS.
Present value ...	1,600
Prospective do.	not given.

198. *Teruvengalore*.—On the Coleroon bank, distant 13 miles from Combarum; area 117 acres, of which 14 acres were cleared and planted with Babul and Kurkapilly in 1875; growth is fair, but will take six years to mature; 103 acres remain to be planted.

199. Expenditure during the year has been Rupees 73, and from the commencement Rupees 575.

200. Receipts from the commencement *nil*, and during the year 130.

201. Approximate estimate—

Present value	RS.
Prospective do.	800
	not given.

202. *Varappakurichi*.—On the Coleroon, distant 11 miles from Combaconum; 157½ acres, of which 95½ acres have been cleared and planted with Babul, Kurkapilly, and Casuarina.

203. The growth is not very good, and it will take six or seven years to mature; a considerable area remains to be planted.

204. Expenditure during the year has been Rupees 154, and from the commencement Rupees 972.

205. Receipts during the year have been Rupees 84, and from the commencement Rupees 93.

206. Approximate estimate—

Present value	RS.
Prospective do.	26,000
	not given.

207. *Sattambadi*.—On the Coleroon, distant 8 miles from Combaconum; area 80 acres, of which 30½ acres have been planted with Babul, Kurkapilly and Casuarina. The growth is very good and will take five or six years to mature; about 50 acres remain to be planted.

208. Expenditure during the year has been Rs. 249, and from the commencement Rupees 951.

209. Receipts during the year have been Rupees 30, and up to the end Rs. 47.

210. Approximate estimate—

Present value	RS.
Prospective do.	1,700
	not given.

211. *Vallakkurichi*.—on the Coleroon.—This plantation site has not been commenced as yet, no funds being available; it is a new one added to the list during the year under review.

212. Receipts during the year have been Rupees 67.

213. *Anagarempett*.—on the Coleroon.—This plantation site has been newly added to the list during the year, but planting has not commenced.

214. Expenditure, *nil*.

215. Receipts during the year have been Rupees 24.

216. *Adavathur*.—on the Coleroon.—This site was taken up for planting in 1875-76, but the land is now in dispute and planting has not commenced.

217. Expenditure during the year has been Rs. 52, and from the commencement Rupees 90, being cost of hired establishment.

218. Receipts during the year have been Rupees 6, and from the commencement Rupees 1,062.

219. All these plantations are along the banks of the Cauvery and Coleroon Rivers. The casualties have been few and the growth rapid, and they are a decided success. The trees are almost entirely Babul, but there is a mixture of *Inga dulcis*, *Albizia lebbek*, *Cassia Florida*, *Nem*, *Catechu*, *Sissu*, *Casuarina* and *Eugenia jambolana*. They have been inspected by the Conservator and a full report submitted (*vide G.O.*, No. 1,605, dated 1st May 1877).

220. The gross expenditure on all the plantations (inclusive of supervision charges, &c.) during the year has been Rupees 10,563 and up to the end Rs. 45,492.

221. Receipts during the year have been Rupees 1,052, and from the commencement Rupees 5,801.

222. *Madura*.—The number of plantations in this division at the close of the year was three against four in the previous year, consequent on the abandonment of the Sathangudi plantation in October 1876 on account of the unsuitableness of the soil; the expenditure up to the date of its abandonment was Rupees 789. All are experimental plantations on a very small scale, viz., No. I, Vanathyparai—No. II, Kodikarnul, and No. III, Velamcombai.

223. *No. I, Vanathyparai*.—This plantation was opened out by Captain Walker in 1870, in the forest south of the Cumbum Valley near the foot of the bridge ghaut leading down from the Peryar project. It consists of 4,315 established Teak trees, extending over an area of 4 acres; the average girth and height of each tree is 9.3 inches and 13.4 feet respectively. The condition of the plantation was good at the beginning of the year, though it somewhat suffered from drought subsequently. No casualties occurred during the year.

224. Expenditure during the year was Rupees 34, and from the commencement Rupees 1,351. Receipts *nil*.

225. Approximate estimate—

Present value	RS.
Prospective value quite uncertain, estimated by the Deputy Conservator at	947
	43,150

226. *No. II, Kodikarnul—Eucalyptus and Acacia plantation*.—These were commenced in 1870-71 upon the Collector's report that if this department did not plant, the large shola at Kodikarnul was likely to disappear before the demand for firewood.

227. The *Eucalyptus* plantation is 9½ acres in extent and had about 5,254 trees at the commencement of the year, whilst at the close the number fell to 5,229; the difference is due to the number of trees thinned to avoid overcrowding. The trees in the latter numbered 4,196 and had no casualties. There was no extension during the year.

228. Expenditure up to the end of the year was Rupees 2,437, and during the year *nil*.

229. Receipts up to the end of 1876-77 were Rupees 15, mainly from sale proceeds of thinnings in the *Eucalyptus* plantations, and during the year *nil*.

230. Approximate estimate—

Present value	RS.
Prospective do.	4,033
	18,850

The value quite depends on the demand.

231. *No. III, Velamcombi or Pulni Teak Plantation*.—This was also opened by Captain Walker in 1870 as an experiment; it is situated at the foot of the northern face of the Pulni hills not far from the village of Pulni.

232. The established trees numbered 4,433 Teak against 4,470 in 1875-76; thirty-seven trees died from the excessive heat of the weather; it is without the belt of the south-west monsoon and not likely to produce Teak of any size, but the experiment is interesting.

233. Expenditure during the year was Rupees 33, and from the commencement Rupees 833.

234. Receipts *nil*.

235. Approximate estimate—

Present value	RS.
Prospective value quite uncertain, but estimated by the Deputy Conservator at	2,148
	44,330

236. None of these Madura plantations were extended during the year, nor were the casualties replaced.

237. Gross expenditure (inclusive of the supervision charges, &c.,) of all the plantations in this division during the year has been Rs. 164, and from the commencement Rupees 5,574.

238. Receipts during the year *nil*, and from the commencement Rupees 15, mainly from No. II, Kodikarnal.

239. These plantations have been inspected by the Conservator during the year and a full report submitted—*vide* G.O., dated 17th August 1877, No. 2,526.

240. *North Coimbatore*.—There are two Sandalwood plantations in this division; a small site has been selected in a ravine below the Nilgiris for the growth of Mahogany, but the seed has not yet been procured.

241. *Tallamally Sandalwood Plantation*.—This was commenced in 1863-64 and has been annually increased up to 1875-76; it now comprises an area of 80 acres; the elevation is about 3,000 feet above the level of the sea. The growth is generally poor, and the trees want more shade than has hitherto been given to them; some of the trees, where there is shade, are 30 feet high with a girth of 15 inches, whilst others are in the open only five or six feet high. During the year 13 acres were ploughed for planting, 13,850 pits $1\frac{1}{2}$ feet square by $1\frac{1}{2}$ feet deep were dug 8 feet apart; owing to drought however no planting took place, 300 yards of fencing 6 feet high were repaired, pruning was carried out to a certain extent, and 12,260 square yards of the plantation were weeded.

242. It is not proposed to extend the planting of Sandal in this locality, but shade trees will be introduced on to the plantation when the seasons are favorable.

243. Expenditure during the year (inclusive of the proportionate share of the cost of the general establishment) Rs. 1,677, and from the commencement Rs. 16,380.

244. Receipts *nil*.

245. Approximate estimate—

Present value	} Not estimated.
Prospective do.	

246. *Bylore Sandalwood Plantation* was commenced in 1870, and is situated at the eastern base of the Balarangams some 28 miles south of Collegal; the elevation is about 3,200 feet above the level of the sea; the soil is much richer than at Talle, and the climate moister; it now consists of 74 acres. The older trees are from 8 to 15 feet in height with a girth of from 8 to 11 inches, and quite cover the ground. In the four-year old portions the trees also cover the ground well, and their height is 7 or 8 feet and 5 to 9 inches in girth; the growth of all the trees is very healthy and promising.

247. One thousand five hundred and forty-two yards of fencing 6 feet high was constructed and 93 yards repaired, 4,000 square yards were cleared of brushwood, 9,000 square yards were weeded, and a fire-trace 350 yards long by 6 yards broad was cut, and 2,000 trees pruned. The area which the trees may be said to have been fairly established is 74 acres which still requires pruning, weeding, &c. Number of trees planted during the year is 9,400, and that up to year is 68,000.

248. Expenditure during the year has been Rupees 3,181 (inclusive of supervision charges), and from the commencement Rupees 19,899.

249. Receipts *nil*.

250. Approximate estimate—

Present value	Rs.
Prospective value	28,940
	3,40,000

251. Mr. Morgan says that there will be work for four years more in the old and new plantations at a cost of Rupees 2,400 a year for weeding, fencing, watering, clearing brushwood, replacing casualties, &c. This amount, viz., Rupees 9,600, for four years at Rupees 2,400 a year, added to the expenditure up to the end of the past year, makes a total of Rupees 28,940; after the fourth year there will be no necessity for employing coolies as the trees will be permanently established.

252. As regards the prospective value it has been reckoned that each tree will have cost 4 Annas at the end of 25 years, and that it may then be expected to return a maund of heartwood worth 5 Rupees.

253. *Mettapallicm Experimental Mahogany Plantation* is situated in the valley of the Sirroo Bhowany; 6 acres were cleared and ploughed in 1874, about four or five nursery beds were formed in which Vagay (to act as nurses to the young Mahogany plants) and several thousand Sandalwood and other kinds of seed were sown. All the young plants died, having been destroyed by bison. Operations were stopped, owing to the Mahogany seed not having yet been procured.

254. Expenditure in 1874-75 Rupees 177 only.

255. Receipts *nil*.

256. The whole of the plantations in this division have been inspected by the Conservator and a full report submitted—*vide* G. O., No. 298, dated 23rd January 1877.

257. *SOUTH COIMBATORE*.—There are three very small experimental Teak plantations on the Anamallays with an area of 17 planted acres; during the year cutting and clearing the dense grass and brushwood and pruning have been carried out. Mr. Douglas reports that the growth was most irregular, but there is improvement during the past year or two; it appears much slower, on the Anamallays than at Nelambur both as regards natural and artificial Teak trees. Every effort has been made to keep down the expenditure which is confined to up-keep only.

258. Expenditure during the year (inclusive of supervision charges) was Rupees 193, and from the commencement Rupees 3,952.

259. Receipts *nil*.

260. Approximate estimate—

Present value, the value of these plantations in their present stage, must be considered prospective.	Rs.
Prospective value	17,000

261. These plantations have been inspected by the Conservator and a full report has been submitted—*vide* G.O., dated 4th December 1876, No. 1,893.

262. *NILGIRIS—Mudumallai Range*.—There are two teakwood plantations in this division, viz., Mudumallai and Benni, with a planted area of 101 acres; the former was planted in 1868-69 and 1869-70; the growth is not at all promising; the larger trees are from 13 to 20 inches in circumference and 35 to 40 feet in height; the latter is situated some 8 or 9 miles to the north-west of Mudumallai, and is well within the influence of the south-west monsoon; it was commenced in 1871-72, and every year some additions have been made up to 1875-76; the growth is much better than at Mudumallai, but many trees have a stunted appearance.

263. The work done during the year in both of these plantations was thinning, pruning, and fire-tracing. There was no extension made in either of the plantations during the past year, nor is extension contemplated.

264. The total expenditure on the two plantations during the year (including the proportionate share of the cost of the general establishment) was Rupees 2,162 and up to the end of the year Rupees 24,911.

265. Receipts *nil*.

266. Approximate estimate—

Present value Not given.
 Prospective value. The Deputy Conservator states that until the plantations are some years older, he will not be able to make any accurate estimate of their future yield.

267. *Segur*.—There is a small sandalwood plantation in this range known as the Sembrageddi; it is situated a little to the E.N.E. of Goodalore at the foot of a rocky bridle-path leading down from General Morgan's Cinchona and Tea Estates near the Pykarah falls on the Nilgiris; it is a little over 3,000 feet above the level of the sea. Area 23 planted acres, commenced in 1871-72; there are now about 21,000 trees; 3,000 casualties were replaced during the year. The growth of the trees is very rapid and appears healthy; the only doubt is that the moisture may be too great and the soil too rich for the formation of heartwood. During the year weeding, pruning, and clearing jungle, cutting creepers, &c., were carried out; the height of the trees on an average is between 12 to 15 feet; the tree is expected to mature itself in about 25 years, and the cost per acre at maturity, including the pay of the permanent establishments, interest on outlay, &c., is estimated at Rupees 600, and the expected yield per acre is at least 150 maunds of heartwood.

268. The expenditure during the year (inclusive of supervision charges) is Rupees 1,503 and from the commencement Rupees 8,880.

269. Receipts nil.

270. Approximate estimate—

Present value
 Prospective value } *Vide* remarks given in the Mudumalai Range.

271. These plantations were inspected by the Conservator during the year and a full report submitted—*Vide* G.O., No. 1,301, dated 20th September 1876.

272. OOTACAMUND AND COONOR.—There are twenty-two plantations on the Nilgiri plateau with a planted area of 1,067 acres consisting entirely of Australian trees of different kinds; the growth is very splendid, but unless a railroad is made up to the plateau of the Nilgiris a sufficient demand for the produce of these plantations cannot be expected. These plantations were all inspected during the year by the Conservator and a full report submitted—*Vide* G.O., 23rd November 1876, No. 1,763.

273. Expenditure during the year (inclusive of supervision and other charges) has been Rupees 3,362 and from the commencement (including all charges, &c., while under Jungle Conservancy and Public Works Department) Rupees 74,778.

274. The receipts during the year have been Rupees 7,699 and from the commencement Rupees 51,818 from all sources. In the above figures a portion of the receipts and charges of the sholas are included, which were lumped together when these plantations were under Jungle Conservancy, and it is impossible now to separate them as stated in my letter to Government, No. 492, dated 7th August 1877, paragraph 2.

275. Approximate estimate—

Present value
 Prospective value } Major Jago promises to furnish this information in his next report; a calculation is however very difficult; every thing depends on what the demand may be.

276. SALEM.—There is one sandalwood plantation in this division known as the Kanavenagasamudram on the Mailberry Hills near Denkincothah, with 6,017 trees extending over an area of 5 acres; elevation about 3,000 feet. Shade is required, and some quick-growing jungle shade is to be planted about the plantation; its further extension is not contemplated. This plantation was inspected and a full report submitted—*Vide* G.O., dated 21st March 1877, No. 1,172.

277. Expenditure during the year (inclusive of supervision charges) Rupees 500 and from the commencement Rupees 1,678.

278. Receipts nil.

279. Approximate estimate—

Present value
 Prospective value } Not received.

280. SOUTH CANARA.—In this division there is a teakwood plantation known as the Parrapa teak plantation in the Cassergode Taluq. Owing to a doubt as to the Government right to this plantation, as well as to all the forests of this division, operations were entirely suspended during the year. Before operations were suspended some 15 acres were cleared for planting last monsoon, but the expenditure was restricted to a minimum.

281. This plantation was not visited by the Conservator during the past year.

282. Expenditure in the year (inclusive of supervision charges) was Rupees 1,380 and from the commencement Rupees 11,131.

283. Receipts nil.

284. Approximate estimate—

Present value
 Prospective value } Not received.

285. MALABAR—*Nelambur*.—There are two tracts of teak plantations in this range, viz., Nelambur and Amarapoliem, with an estimated area of 3,603 acres, of which 3,368 are planted.

286. The plantations are looking very healthy and promising; the trees in the 1845-46 plantations are over 5 feet in girth and a little over 100 feet high.

287. Mr. Ferguson states that area of the Amarapoliem plantation is about 441 acres and not 331, and that the area planted up to last year was 297 and not 264 as shown in the previous returns before being properly surveyed.

288. Mr. Athol MacGregor, late Collector of Malabar, has published an interesting memorandum on the history and condition of these plantations illustrated with maps.

289. Expenditure during the year (inclusive of supervision charges) Rupees 15,080 and from the commencement Rupees 3,22,801.

290. Receipts during the year have been Rupees 13,162 and from the commencement Rupees 1,24,776.

291. Approximate estimate—

Present value
 Prospective value } Not given.

292. These plantations were inspected by the Conservator during the year and a report submitted—*Vide* G.O., dated 20th September 1876, No. 1,300.

FIREWOOD RESERVES.

293. CUDDAPAH.—There are seven in number, viz., Balapully No. I, Balapully No. II, Vacatu Konah No. III, Sullagoonta Chanoo and Codoor Hills No. IV, Thuncondah No. V, Yerragoontahcottah No. VI, and Guthala Nookunapilly No. VII; these are partly in the plains and partly on the hill slopes, and all are situated along the north-west line of the Railway between Tripetty and Nundalore, and have been fenced in.

294. *Balapully No. I*.—This reserve lies close to the Railway line on the west side, eleven miles from Codoor; the estimated area is 2,000 acres; taken up and fenced round in 1867. The failure of both the monsoons has prevented broadcast sowing, and the cause of the casualties is attributable to extreme drought. This reserve has

trees from 1,000 to 500 per acre, which consist of *Pterocarpus Santalinus*, *Conocarpus latifolia*, *Chloroxylon Swietenia*, *Terminalia glabra*, *Acacia Arabica*, *Albizia lebbek* and *amara*, *Diospyros sp.*, *Strychnos nux vomica*, *Emblia officinalis*, *Eugenia jambolana*, *Terminalia tomentosa* and *belerica*, *Hardwickia binata*, *Vatica thumbugala*, *Pongamia glabra*, *Vitex arborea*, other fuel yielding trees; some trees worthless even as fuel, bamboos, and shrubs.

295. The fencing of this reserve is said to have suffered considerably owing to the ryots having been allowed to graze their cattle in it, but the privilege was annulled by order of the present Collector.

296. Expenditure during the year has been Rupees 223 and from the commencement Rupees 5,137 (of which Rupees 3,642 cost of fencing).

297. Receipts nil.

298. Approximate estimate—

	RS.
Present value	12,451
(a very low estimate, i.e., only about 6 Rupees per acre.)	
Prospective value	30,374

299. *Balapully No. II.*—The estimated area is 1,730 acres, and it lies to the east of the Railway line facing Balapully No. I, from which it is separated by the line of Railway; it is about 11 miles from the Codoor Railway Station; taken up and fenced round in 1871. For further particulars, *vide* Reserve No. I.

300. Expenditure during the year was Rupees 292 and from the commencement Rupees 5,023 (which includes 692 Rupees purchase of land and Rupees 3,922 cost of fencing).

301. Receipts nil.

302. Approximate estimate—

	RS.
Present value	10,774
Prospective value	26,275

303. *Sullagoonta Chanoo and Codoor Hills No. III.*—These two tracts lie about 7 miles to the east of the Codoor Railway Station with an estimated area of 2,000 and 3,000 acres, respectively; taken up and fenced round partly in 1871 and partly in 1874. For further particulars, *vide* Reserves Nos. I and II.

304. During the year under report the Codoor Hill Reserve was incorporated with that of Sullagoonta Chanoo.

305. Expenditure during the year was Rupees 1,626 and up to the end of year Rupees 4,381 (which includes Rupees 2,979 cost of fencing).

Receipts nil.

306. Approximate estimate—

	RS.
Present value	21,787
Prospective value	53,147

307. *Yerragoontahcattah No. IV.*—It lies about 5 miles to the west of the Codoor Railway Station with an estimated area of 3,000 acres; taken up in 1873; three-fourths hill and one-fourth plain, all fenced; the jungle on the hill portion is good, but that in the plains very indifferent and require rest; damage is apparent everywhere from cattle and goats. For further remarks, *vide* Reserves Nos. I and II.

308. Expenditure during the year was Rupees 218 and from the commencement Rupees 2,897 (Rupees 2,264 cost of fencing).

Receipts nil.

309. Approximate estimate—

	RS.
Present value	18,667
Prospective value	45,547

310. *Thunakondah No. V* is situated about 2 miles to the west of the Codoor Railway Station with an estimated area of 600 acres; taken up in 1874; all hill and all fenced; trees from 800 to 1,000 per acre, chiefly *Conocarpus latifolia*, *Pterocarpus Santalinus*, *Hardwickia binata*, *Strychnos nux vomica*, *Samarindus Indica*, *Albizia amara*, *Emblia officinalis*; the fencing has been destroyed by the ryots, &c., while the privilege of grazing their cattle was allowed.

311. Expenditure during the year has been Rupees 91 and from the commencement Rupees 1,396 (Rupees 1,165 cost of fencing).

Receipts nil.

312. Approximate estimate—

	RS.
Present value	3,733
Prospective value	9,109

313. *Vacatu Konah No. VI.*—It lies about 7 miles in a southerly direction from the Codoor Railway Station; estimated area 3,000 acres; taken up in November 1874; fenced all around. For further particulars, *vide* Reserves No. I, II, III, and IV.

314. Expenditure during the year has been Rupees 225 and from the commencement Rupees 3,026 (Rupees 2,539 cost of fencing).

315. Receipts nil.

316. Approximate estimate—

	RS.
Present value	18,667
Prospective value	45,547

317. *Gathala Nookunapilly No. VII.*—This reserve lies about 8 miles to the south-west of the Reddipully Railway Station; area 3,000 acres; taken up in 1874; nearly all hill and all fenced. For further particulars, *vide* Reserves Nos. I, II, and III.

318. Expenditure during the year has been Rupees 296 and from the commencement Rupees 6,131 (Rupees 5,751 cost of fencing).

Receipts nil.

319. Approximate estimate—

	RS.
Present value	18,667
Prospective value	45,547

320. The total area of the reserves in this division is estimated at 16,830 acres; some of them are being demarcated by the Revenue Survey Department and the others will all shortly be demarcated.

321. Gross expenditure during the year of all the reserves in this division has been Rupees 3,895 (inclusive of supervision charges) and from the commencement Rupees 28,915.

Receipts nil.

322. These reserves have been inspected by the Conservator and a report submitted—*vide* G.O., No. 1,974, dated 13th June 1877.

323. Though the receipts are at present nil, the fuel revenue from the jungles of which they are a part has been about two lakhs of rupees since 1870; it is better to conserve the reserves for a few years longer and to continue felling in the open tracts; it is a great pity that it should ever be in the power of the Revenue Department to issue orders about grazing than can result in such immense damage both to the trees and the fencing. The present Collector is fully alive to the importance of strict management, but changes in the administration may any day occur, and the question calls for strict orders from the Board or Government.

324. *North Arcot.*—There are two reserves in this division known as Amboor and Mamandoor with an estimated area of 6,400 acres.

325. *A. Amboor Reserve*.—Surveyed and demarcated, consisting of alangee and other jungle trees; area 3,840 acres; taken up in 1871. Pending the settlement of the rights of the people to grazing, &c., nothing has been done in this reserve, and it is not at present under Imperial Conservancy, although it has been twice handed over to the department.

326. Expenditure during the year nil and from the commencement Rupees 1,346 (of which Rupees 223 for survey and demarcation).

Receipts nil.

327. Approximate estimate not given.

328. *B. Mamandoor Reserve*.—Situated close to the Railway from the 290½ to 92½ miles on the North-West Line, 8 miles north of Tripatty Station; area 2,560 acres; taken up and closed in 1871; surveyed and demarcated, consisting of yellama, redwood, and jungle trees. The growth is reported to be very fair, and Mr. Sheffield estimates that it will give 15 tons per acre in one or two years; fire-traced and divided into nine blocks by roads 20 feet wide; during the year the fencing has been destroyed by cattle.

329. Expenditure during the year has been Rupees 304 and from the commencement Rupees 4,871 (of which Rupees 2,142 for fencing).

Receipts nil.

330. Approximate estimate—

	rs.
Present value	40,000
Prospective value	50,000

331. This reserve was inspected by the Conservator and a full report is now before the Board and Government.

332. Total expenditure of the reserves in this division during the year, including supervision charges, has been Rupees 497 and from the commencement Rs. 6,410.

Receipts nil.

333. *SOUTH ARCOT*.—There are eleven reserves in this division with an estimated area of 65,140 acres; they are as follows—

334. *Mutacadoo*.—Area 2,500 acres; unsurveyed, roughly demarcated, and partly fenced; felling for supply has been stopped since 1868. Contents, mixed firewood trees three-fifths stocked, 30 tons to the acre, over half foot thickness, besides saplings; cattle are allowed in certain portions, but goats are excluded.

335. Artificially planted trees at the close of the year were 36,142; the principal work done during the year was planting seedlings, collecting seeds, clearing creepers, &c.

336. Expenditure during the year was Rupees 829 and from the commencement Rupees 3,933.

337. Receipts during the year have been Rupees 214 and from the commencement Rupees 967 from all sources.

338. Approximate estimate—

	rs.
Present value	1,16,340
Prospective value	...

339. *Siroovady*.—Area 710 acres; taken up in 1872-73 for Railway and general supply, consisting of mixed trees; two-thirds of the whole area generally open during four months of every year for cattle grazing, but goats are excluded. Felling for supply stopped since 1872; during the year under review cattle have grazed all the year round, and sometimes goats also.

340. At the close of the year there were 16,075 supplementally planted trees; the number of casualties during the year was 680; principal work done during the year has been Rupees 319 (chiefly for improvement) and from the commencement Rupees 1,821.

341. Receipts Rupees 15 and from the commencement Rupees 17 from all sources.

342. Approximate estimate—

	rs.
Present value	26,280
Prospective value	...

343. *Cotamungalum*.—Taken up for Railway and general supply; area 2,000 acres, containing mixed trees; two-thirds of the whole area open to cattle grazing, but goats generally excluded; felling stopped since 1868; the boundary has not been demarcated thoroughly, and goats have been admitted into portions this year.

344. At the close of the year there were 6,006 supplementally planted trees; during the year 910 casualties occurred, and the principal work done was cutting patrol paths, collecting seeds, clearing creepers and weeds, and sowing seeds.

345. Expenditure during the year was Rupees 203 (chiefly for improvement) and from the commencement Rupees 1,160.

346. Receipts during the year have been Rupees 136 and from the commencement Rupees 390 from all sources.

347. Approximate estimate—

Present value Rupees 92,580 for 18,516 tons for the present; the probable annual yield will be 620 tons.

348. *Padipallam*.—This was taken up in 1868 for Railway fuel; area 2,500 acres, consisting of mixed trees; two-thirds of the whole area open to cattle grazing, but not for goats; felling for general supply stopped in 1868. Owing to the scarcity of pasturage cattle have this year been allowed over all the reserve. It is reported that at the close of the year there were 9,147 supplementally planted trees, and 1,350 casualties occurred.

349. The work done during the year was clearing creepers and weeds, collecting seeds, and cutting patrol paths.

350. Expenditure during the year has been Rupees 258 (mainly for improvement) and from the commencement Rupees 1,594.

351. Receipts in the year Rupees 123 and up to the end Rupees 1,671 from all sources.

352. Approximate estimate—

	rs.
Present value	1,25,880
Prospective value	...

353. *Periamoor*.—Area 8,840 acres; taken up for Railway fuel and general supply; two-thirds of the whole area open to cattle grazing, but not to goats. It was all, however, thrown open to cattle in the year under review excepting young fields of supplemental planting. At the close of the year there were 15,844 supplementally planted trees; the number of casualties was 1,170; cutting patrol paths, creepers and weeds, collecting and sowing seeds were performed during the year.

354. Expenditure during the year has been Rupees 315 (chiefly for improvement) and from the commencement Rupees 1,935.

355. Receipts during the year have been Rupees 176 and from the commencement Rupees 276 from all sources.

356. Approximate estimate—

	rs.
Present value	4,69,380
Prospective value	...

325. *A. Amboor Reserve*.—Surveyed and demarcated, consisting of alangce and other jungle trees; area 3,840 acres; taken up in 1871. Pending the settlement of the rights of the people to grazing, &c., nothing has been done in this reserve, and it is not at present under Imperial Conservancy, although it has been twice handed over to the department.

326. Expenditure during the year nil and from the commencement Rupees 1,346 (of which Rupees 223 for survey and demarcation).

Receipts nil.

327. Approximate estimate not given.

328. *B. Mamandoor Reserve*.—Situated close to the Railway from the 40½ to 92½ miles on the North-West Line, 8 miles north of Tripatty Station; area 2,500 acres; taken up and closed in 1871; surveyed and demarcated, consisting of yellama, redwood, and jungle trees. The growth is reported to be very fair, and Mr. Sheffield estimates that it will give 15 tons per acre in one or two years; fire-traced and divided into nine blocks by roads 20 feet wide; during the year the fencing has been destroyed by cattle.

329. Expenditure during the year has been Rupees 304 and from the commencement Rupees 4,871 (of which Rupees 2,142 for fencing).

Receipts nil.

330. Approximate estimate—

	RS.
Present value	40,000
Prospective value...	50,000

331. This reserve was inspected by the Conservator and a full report is now before the Board and Government.

332. Total expenditure of the reserves in this division during the year, including supervision charges, has been Rupees 497 and from the commencement Rs. 6,410.

Receipts nil.

333. *South Arcot*.—There are eleven reserves in this division with an estimated area of 65,440 acres; they are as follows:—

334. *Mutacadoo*.—Area 2,500 acres; unsurveyed, roughly demarcated, and partly fenced; felling for supply has been stopped since 1868. Contents, mixed firewood trees three-fifths stocked, 30 tons to the acre, over half foot thickness, besides saplings; cattle are allowed in certain portions, but goats are excluded.

335. Artificially planted trees at the close of the year were 36,142; the principal work done during the year was planting seedlings, collecting seeds, clearing creepers, &c.

336. Expenditure during the year was Rupees 829 and from the commencement Rupees 3,933.

337. Receipts during the year have been Rupees 214 and from the commencement Rupees 967 from all sources.

338. Approximate estimate—

	RS.
Present value	1,16,340
Prospective value	...

339. *Siroovady*.—Area 710 acres; taken up in 1872-73 for Railway and general supply, consisting of mixed trees; two-thirds of the whole area generally open during four months of every year for cattle grazing, but goats are excluded. Felling for supply stopped since 1872; during the year under review cattle have grazed all the year round, and sometimes goats also.

340. At the close of the year there were 16,075 supplementally planted trees; the number of casualties during the year was 680; principal work done during the year has been Rupees 319 (chiefly for improvement) and from the commencement Rupees 1,821.

341. Receipts Rupees 15 and from the commencement Rupees 17 from all sources.

342. Approximate estimate—

	RS.
Present value	26,280
Prospective value	...

343. *Cotamungalum*.—Taken up for Railway and general supply; area 2,000 acres, containing mixed trees; two-thirds of the whole area open to cattle grazing, but goats generally excluded; felling stopped since 1868; the boundary has not been demarcated thoroughly, and goats have been admitted into portions this year.

344. At the close of the year there were 6,006 supplementally planted trees; during the year 910 casualties occurred, and the principal work done was cutting patrol paths, collecting seeds, clearing creepers and weeds, and sowing seeds.

345. Expenditure during the year was Rupees 203 (chiefly for improvement) and from the commencement Rupees 1,160.

346. Receipts during the year have been Rupees 136 and from the commencement Rupees 390 from all sources.

347. Approximate estimate—

Present value Rupees 92,580 for 18,516 tons for the present; the probable annual yield will be 620 tons.

348. *Padipallum*.—This was taken up in 1868 for Railway fuel; area 2,500 acres, consisting of mixed trees; two-thirds of the whole area open to cattle grazing, but not for goats; felling for general supply stopped in 1868. Owing to the scarcity of pasturage cattle have this year been allowed over all the reserve. It is reported that at the close of the year there were 9,147 supplementally planted trees, and 1,350 casualties occurred.

349. The work done during the year was clearing creepers and weeds, collecting seeds, and cutting patrol paths.

350. Expenditure during the year has been Rupees 258 (mainly for improvement) and from the commencement Rupees 1,594.

351. Receipts in the year Rupees 123 and up to the end Rupees 1,671 from all sources.

352. Approximate estimate—

	RS.
Present value	1,25,880
Prospective value	...

353. *Periamoor*.—Area 8,840 acres; taken up for Railway fuel and general supply; two-thirds of the whole area open to cattle grazing, but not to goats. It was all, however, thrown open to cattle in the year under review excepting young fields of supplemental planting. At the close of the year there were 15,844 supplementally planted trees; the number of casualties was 1,170; cutting patrol paths, creepers and weeds, collecting and sowing seeds were performed during the year.

354. Expenditure during the year has been Rupees 315 (chiefly for improvement) and from the commencement Rupees 1,935.

355. Receipts during the year have been Rupees 176 and from the commencement Rupees 276 from all sources.

356. Approximate estimate—

	RS.
Present value	4,69,380
Prospective value	...

357. *Gungaveram*.—Area 8,000 acres; taken up for Railway fuel; demarcated in 1875-76; one-third of the whole area open to cattle grazing, but goats strictly excluded.

358. The expenditure in the year was only for the pay of watchmen entertained for protection, conservancy, and improvement of natural forests. This reserve was formerly described as situated in three taluqs; the major part of the Trinomallai portion has been transferred to the taluq of Villapuram, and now almost all of it lies within Villapuram Taluq.

359. Expenditure during the year has been Rupees 131 and from the commencement Rupees 314. Receipts during the year were only Rupees 22 and up to the end of the year Rupees 22.

360. Approximate estimate—

Present value	Rs.
...	3,93,000

361. Mr. Wooldridge estimates that there are 78,600 tons now on the land, and values the wood at 5 Rupees per ton.

362. *Muthenai*.—Area 4,000 acres; mixed timber and firewood reserve for general supply; the principal trees are satin, karungali, thuringee perambai, neemai, and maruthai, &c. At the close of the year there were 2,808 supplementally planted trees. During the year 9,326 yards of patrol paths were cut 8 feet wide for Rupees 37-11-0, or at Rupees 7-3-0 per mile; 70 measures of tree seeds were collected without any extra cost.

363. Mr. Wooldridge states that by the 7 acres felled last year the present average yield of this reserve was found to be a little over 13 tons.

364. Expenditure during the year has been Rupees 469 (mainly for improvement) and from the commencement Rupees 1,680.

365. Receipts during the year have been Rupees 5 and from the commencement Rupees 41.

366. Approximate estimate—

Present value	Rs.
(at 5 Rupees per ton 40,116 tons of living wood.)	2,00,580

367. *Chinnasamoodram*.—Mixed timber and firewood for general supply; area 6,400 acres; two-thirds of the whole area open to cattle grazing; the principal trees are karungali, satin, thuringee perambai, neemai, and maruthai.

368. There were 10,243 supplementally planted trees at the close of the year; only 20 casualties occurred; 8,322 yards of patrol paths 8 feet wide were cut at an average cost of Rupees 5-7-7 per mile.

369. Expenditure during the year has been Rupees 342 (improvement) and from the commencement Rupees 2,524.

370. Receipts in the year were Rs. 47 and from the commencement Rupees 991.

371. Approximate estimate—

Present value	Rs.
(at 5 Rupees per ton for 62,322, the estimated present quantity of living wood in the land.)	3,11,610

372. *Peringolathone*.—Area in acres 4,800; mixed timber and firewood for general supply; principal trees are satin, karungali, neem, &c. Cattle were allowed to graze in this reserve, but goats were strictly prohibited. It is reported that the area is, however, uncertain, for no survey has yet taken place; there is no market for the wood nearer than Trikalur, 26 miles from this reserve, and no road exists.

373. Expenditure during the year has been Rupees 54 (for improvement) and from the commencement Rupees 213.

Receipts nil.

374. Approximate estimate—

	Rs.
Present value	2,70,000
Prospective value...	...

375. *Cusba Reserve*.—Area 2,350 acres, consisting of timber and firewood for general supply; 655 acres were closed to grazing in the Trinomallai section, and goats have been excluded therefrom. Owing to the severe drought a large number of casualties occurred.

376. During the year under review 240 sandalwood trees were cleared of creepers. On account of the carelessness of the watcher (for which he was removed and fined) cattle and cowherds, &c., penetrated into the sandalwood tract and did much damage to the trees.

377. Expenditure during the year has been Rupees 166 (mainly for improvement) and from the commencement Rupees 1,072.

378. Receipts during the year nil and from the commencement Rupees 5.

379. Approximate estimate—

	Rs.
Present value	81,000
Prospective value	...

380. *Thenmalai Forests*.—Estimated area 23,000 acres; the principal trees are sandalwood and teak; 314 timber trees were felled, and all have been worked up into 1,076 logs, yielding 2,245 cubic feet; 247 sandalwood trees were felled, which yielded 372 maunds of heartwood; 272 maunds of gallnuts were collected, and also 8 lbs. of bees' wax and 24 lbs. of honey.

381. The formation of this forest into a reserve was sanctioned in 1868, (*vide* G.O.s., dated 20th February 1868, No. 482, and 9th October 1868, No. 2,603, respectively), but in 1874 it was transferred from Salem to South Arcot by G.O., dated 19th October 1874, No. 1,346. The information required by the Board of Revenue in their Proceedings, dated 13th February 1877, No. 604, paragraph 3, will be submitted in detail in the Conservator's inspection report on this division, which will shortly be visited.

382. Expenditure during the year has been Rupees 63 (cost of improvement) and from the commencement Rupees 175.

383. Receipts during the year Rupees 3,884 and up to the end of the year Rupees 4,914.

384. Approximate estimate—

	Rs.
Present value	23,62,500
Prospective value	...

385. The gross expenditure of the whole of these reserves (inclusive of supervision charges) has been Rupees 5,260 and from the commencement Rupees 18,532.

386. Receipts during the year have been Rupees 4,621 and from the commencement Rupees 6,898.

387. *TRICHINOPOLY*.—There are six reserves in this division (out of which four are reserve proper) with an estimated area of 3,877 acres. All of these are intended for Railway fuel supply, and consist of indigenous jungle of fuel-yielding trees.

388. *Lalapettai*.—Area 106 acres, on the Cavery bank; a close reserve, unsurveyed and not demarcated; the principal tree is *Acacia Arabica* supplemented with planted casuarina, &c. The growth is good.

389. Expenditure during the year has been Rupees 508 and from the commencement Rupees 4,620.

390. Receipts during the year have been Rupees 263 and from the commencement Rupees 1,968.

391. Approximate estimate—

Present value	RS.
...	7,000

392. *Streepurandan*.—Area 463 acres, on the Coleroon bank, 8 miles from Combaconum; a close reserve (partly a reserve and partly a plantation), unsurveyed, not demarcated; trees *Acacia Arabica* and *casuarina*. The growth of the trees is rather slow. Broadcast sowing over an area of 300 acres is contemplated during the rainy season.

393. Expenditure during the year has been Rupees 545 (cost of the hired establishment) and from the commencement Rupees 1,723.

394. Receipts during the year have been Rupees 277 and from the commencement Rupees 1,968.

395. Approximate estimate—

Present value	RS.
Prospective value	5,000

396. *Tainmallai*.—Area 153 acres; bounded on the west, north and south by putta lands, and east by a mountain stream. Close reserve, neither demarcated nor surveyed; is a hill $2\frac{1}{2}$ miles to the north of the Madura line near Manaparai; taken up in 1871; consists almost entirely of *Albizzia amara* and *Acacia planifrons*; growth of the trees are said to be improving; soil rocky.

397. Expenditure during the year has been Rupees 89 (cost of hired establishment) and from the commencement Rupees 1,027.

398. Receipts *nil*.

399. Approximate estimate—

Present value	RS.
Prospective value	3,000

400. *Punjantanghee*.—Area 1,000 acres; bounded on the west by Government waste lands and the Madura boundary, east by the Marungapury Zemindari, and south by the Madura boundary. It is a close reserve, neither surveyed nor demarcated, consisting of *Albizzia amara*, umbrella thorns, and satinwood; soil rocky; stock improved; natural growth slow.

401. Expenditure during the year has been Rupees 161 and from the commencement Rupees 1,142.

402. Receipts in the year *nil* and from the commencement Rupees 8.

403. Approximate estimate—

Present value	RS.
Prospective value	20,000

404. *Minnakarudu*.—Area 1,000 acres; bounded on the south and west by putta lands, east by putta land and a stream, and north by a stream. A close reserve, neither surveyed nor demarcated, and is a low hill near Punjantanghee; contents, *Acacia Arabica*, *Umbrella acacia* and satinwood; soil rocky; stock improved; natural growth fair.

405. Expenditure during the year has been Rupees 89 and from the commencement Rupees 433.

406. Receipts *nil*.

407. Approximate estimate—

Present value	RS.
Prospective value	8,000

408. *Tuvagudy*.—Area 1,155 acres; bounded on all sides by putta lands, about ten miles from Trichinopoly on the Tanjore road and two miles from the Railway line. There is a small hill in the centre with an area of about 300 acres, but the rest is level ground. A close reserve, unsurveyed and not demarcated, consisting of *Acacia Arabica* and *Leucophlea*; soil gravel; growth slow.

409. Expenditure during the year has been Rupees 127 and from the commencement Rupees 144.

410. Receipts *nil*.

Approximate estimate—

Present value	RS.
...	3,000

411. These reserves were inspected by the Conservator and a report submitted—*Vide G.O., No. 1,605, dated 1st May 1877.*

412. The total expenditure of all the reserves during the year, including supervision charges, has been Rupees 2,605, and from the commencement Rupees 10,175.

413. Receipts in the year Rupees 540 and from the commencement Rupees 2,307 from all sources.

414. *MADURA*.—There are seven reserves in this division with an estimated area of 17,440 acres. No new forest acquisitions have taken place during the year under report. The expenditure and receipts of each of the reserves which were omitted in last year's report are now given.)

415. *No. I Goovanooth or Siroomallai Reserve*.—Area 1,920 acres; taken up in 1875-76; situated at about ten miles south-east of Dindigul; neither surveyed nor demarcated; contents, *Albizzia amara*, *Wrightia*, and other kinds of trees. This reserve has been cut over and grazed in by goats; it requires a long rest; goats are to be excluded but not cattle, except whilst it may be under the first stage of reboisement.

416. Expenditure and receipts *nil*.

417. Approximate estimate—

Present value	RS.
Prospective value	1,920
...	5,700

418. *No. II Kanavoyputty—A. Ukkamakkarudu*.—Estimated area 1,600 acres; situated a mile south of Kanavoyputty village and fourteen miles from the Dindigul Railway Station; unsurveyed but fully fenced with *Euphorbia* at a cost of Rupees 392. All hilly and abutting on the Nattam road; the principal trees are *Albizzia amara*, *Wrightia tinctoria*, *Canthium didymum*, *Premna tomentosa*, and *Colubrina Asiatica*; has much improved since it was taken up.

419. Expenditure during the year has been Rupees 433 and from the commencement Rupees 433.

420. Receipts *nil*.

421. Approximate estimate—

Present value	RS.
Prospective value	2,400
...	7,200

422. *No. II Kanavoyputty Reserve—B. Kuppiram Kuttoo*.—Area 2,560 acres; not surveyed but fenced with *Euphorbia* at a cost of Rupees 219; is situated half a mile north of Kanavoyputty and fifteen miles from the Dindigul Railway Station; nearly all hilly, abutting on the Nattam road; taken up in November 1875; the principal trees are *Albizzia amara*, *Cassia Roxburghii*, *Wrightia tinctoria* (satinwood), *Premna tomentosa* and *Canthium didymum*, and in some places a good deal of scrub which should in time be eradicated.

457. Approximate estimate—

Present value	RS.
Prospective value	768

458. *Muthurkolum*.—Area 241 acres; channel-fed; contains 1,004 ripe and 545 medium-sized trees, and a good number of seedlings, chiefly *Acacia Arabica*; taken up as a reserve in August 1872; the surviving seedlings of past years are said to be doing well; 3,667 ripe and medium-sized trees have been felled, which yielded 1334 tons of wood, and the amount realized was Rupees 600.

459. Expenditure during the year has been Rupees 47, and from the commencement Rupees 733.

460. Receipts in the year were Rupees 622, and up to the end Rupees 645 from all sources.

461. Approximate estimate—

Present value	RS.
Prospective value	40

462. *Kuthuculcolum*.—Estimated area 133 acres; soil poor; rain-fed; contains 100 ripe and 274 medium-sized trees and no saplings, chiefly *Acacia Arabica*; taken up as a reserve in August 1872. The result of the past year's sowings are reported to be bad owing to drought.

463. Expenditure during the year has been Rupees 16, and from the commencement Rupees 335.

464. Receipts in the year Rupees 5, and from the commencement Rupees 9.

465. Approximate estimate—

Present value	RS.
Prospective value	60

466. It is stated that the expenditure cannot be recouped owing to the poor soil.

467. *Naraginaroo*.—Area 106 acres; rain-fed; contains 1,705 ripe and 312 medium-sized trees and no seedlings; soil chiefly black cotton, a portion indifferent; taken up and added as a reserve in December 1873. Twenty-eight acres were dibbled with seed and which did not germinate; the surviving seedlings of past years are doing well.

468. Expenditure during the year has been Rupees 21, and from the commencement Rupees 217.

469. Receipts in the year were Rupees 119, and from the commencement Rupees 367.

470. Approximate estimate—

Present value	RS.
Prospective value	3,343

471. *Manurkolam*.—Area 113 acres; channel-fed; taken up as a reserve in 1873; contains 2,045 ripe and 1,055 medium-sized trees and a moderate number of seedlings; soil half black and half indifferent; chief trees *Acacia Arabica*.

472. One hundred and five acres were dibbled with babool seed, a large number of which germinated and died off from drought after attaining an height of 3 inches.

473. Expenditure during the year has been Rupees 195 and from the commencement Rupees 848.

474. Receipts during the year have been Rupees 23, and from the commencement Rupees 113.

475. Approximate estimate—

Present value	RS.
Prospective value	71

250

476. It is said that the expenditure will probably not be recouped.

477. *Rustakolum*.—Area 20 acres; rain-fed; soil chiefly black and indifferent; contains 533 ripe and 230 medium-sized trees; taken up and added as a reserve in August 1873; the sowings of past year have failed for want of rain.

478. Expenditure during the year has been Rupees 3, and from the commencement Rupees 63.

479. Receipts during the year were Rupees 2, and up to the end of the year Rupees 8.

480. Approximate estimate—

Present value	RS.
Prospective value	80

481. *Ramasawmipooram*.—Area 18 acres; rain-fed; contains 150 ripe and 210 medium-sized trees; the principal trees are *Acacia Arabica*; taken up and added as a reserve in September 1873; on account of the unfavorable weather past year's sowings have failed.

482. Expenditure during the year has been Rupees 3, and from the commencement Rupees 54.

483. Receipts during the year have been Rupees 2, and from the commencement Rupees 5.

484. Approximate estimate—

Present value	RS.
Prospective value	19

485. *Sirucolum*.—Area 5 acres; rain-fed; contains 29 ripe and 87 medium-sized trees; principal tree *Acacia Arabica*; taken up and added as a reserve in September 1873. Past year's sowings have failed for want of rain.

486. Expenditure during the year nil, and from the commencement Rupees 13. Receipts—nil.

487. Approximate estimate—

Present value	RS.
Prospective value	3

488. *Kalakudykolum*.—Area 127 acres; soil chiefly black cotton; channel-fed; contains 830 ripe and 692 medium-sized trees; taken up and added as a reserve in September 1873.

489. Expenditure during the year has been Rupees 18 and from the commencement Rupees 133.

490. Receipts during the year have been Rupees 18 and from the commencement Rupees 48.

491. Approximate estimate—

Present value	RS.
Prospective value	104

492. *Puthukolum*.—Area 100 acres; channel-fed; soil indifferent; it contains 798 ripe and 560 medium-sized trees of *Acacia Arabica*; taken up in September 1873.

493. Expenditure during the year has been Rupees 13, and from the commencement Rupees 100.

494. Receipts in the year nil and from the commencement Rupees 10.

495. Approximate estimate—

Present value	RS.
Prospective value	140

160

457. Approximate estimate—

Present value	RS.
Prospective value	768
	2,548

458. *Muthurkolum*.—Area 241 acres; channel-fed; contains 1,004 ripe and 545 medium-sized trees, and a good number of seedlings, chiefly *Acacia Arabica*; taken up as a reserve in August 1872; the surviving seedlings of past years are said to be doing well; 3,667 ripe and medium-sized trees have been felled, which yielded 133 tons of wood, and the amount realized was Rupees 600.

459. Expenditure during the year has been Rupees 47, and from the commencement Rupees 733.

460. Receipts in the year were Rupees 622, and up to the end Rupees 645 from all sources.

461. Approximate estimate—

Present value	RS.
Prospective value	40
	129

462. *Kuthuculolum*.—Estimated area 133 acres; soil poor; rain-fed; contains 100 ripe and 274 medium-sized trees and no saplings, chiefly *Acacia Arabica*; taken up as a reserve in August 1872. The result of the past year's sowings are reported to be bad owing to drought.

463. Expenditure during the year has been Rupees 16, and from the commencement Rupees 335.

464. Receipts in the year Rupees 5, and from the commencement Rupees 9.

465. Approximate estimate—

Present value	RS.
Prospective value	60

466. It is stated that the expenditure cannot be recouped owing to the poor soil.

467. *Naraginaroo*.—Area 106 acres; rain-fed; contains 1,705 ripe and 312 medium-sized trees and no seedlings; soil chiefly black cotton, a portion indifferent; taken up and added as a reserve in December 1873. Twenty-eight acres were dibbled with seed and which did not germinate; the surviving seedlings of past years are doing well.

468. Expenditure during the year has been Rupees 21, and from the commencement Rupees 217.

469. Receipts in the year were Rupees 119, and from the commencement Rupees 367.

470. Approximate estimate—

Present value	RS.
Prospective value	3,343

471. *Manurkolam*.—Area 113 acres; channel-fed; taken up as a reserve in 1873; contains 2,045 ripe and 1,055 medium-sized trees and a moderate number of seedlings; soil half black and half indifferent; chief trees *Acacia Arabica*.

472. One hundred and five acres were dibbled with babool seed, a large number of which germinated and died off from drought after attaining an height of 3 inches.

473. Expenditure during the year has been Rupees 195 and from the commencement Rupees 848.

474. Receipts during the year have been Rupees 23, and from the commencement Rupees 113.

475. Approximate estimate—

Present value	RS.
Prospective value	71
	250

476. It is said that the expenditure will probably not be recouped.

477. *Rustakolum*.—Area 20 acres; rain-fed; soil chiefly black and indifferent; contains 533 ripe and 230 medium-sized trees; taken up and added as a reserve in August 1873; the sowings of past year have failed for want of rain.

478. Expenditure during the year has been Rupees 3, and from the commencement Rupees 63.

479. Receipts during the year were Rupees 2, and up to the end of the year Rupees 8.

480. Approximate estimate—

Present value	RS.
Prospective value	80

481. *Ramasawmipooram*.—Area 18 acres; rain-fed; contains 150 ripe and 210 medium-sized trees; the principal trees are *Acacia Arabica*; taken up and added as a reserve in September 1873; on account of the unfavorable weather past year's sowings have failed.

482. Expenditure during the year has been Rupees 3, and from the commencement Rupees 54.

483. Receipts during the year have been Rupees 2, and from the commencement Rupees 5.

484. Approximate estimate—

Present value	RS.
Prospective value	19
	53

485. *Sirucolum*.—Area 5 acres; rain-fed; contains 29 ripe and 87 medium-sized trees; principal tree *Acacia Arabica*; taken up and added as a reserve in September 1873. Past year's sowings have failed for want of rain.

486. Expenditure during the year nil, and from the commencement Rupees 13.

Receipts—nil.

487. Approximate estimate—

Present value	RS.
Prospective value	3
	10

488. *Kalakudykolum*.—Area 127 acres; soil chiefly black cotton; channel-fed; contains 830 ripe and 692 medium-sized trees; taken up and added as a reserve in September 1873.

489. Expenditure during the year has been Rupees 18 and from the commencement Rupees 133.

490. Receipts during the year have been Rupees 18 and from the commencement Rupees 48.

491. Approximate estimate—

Present value	RS.
Prospective value	104
	178

492. *Puthukolum*.—Area 100 acres; channel-fed; soil indifferent; it contains 798 ripe and 560 medium-sized trees of *Acacia Arabica*; taken up in September 1873.

493. Expenditure during the year has been Rupees 13, and from the commencement Rupees 100.

494. Receipts in the year nil and from the commencement Rupees 10.

495. Approximate estimate—

Present value	RS.
Prospective value	140
	160

496. *Seedakurachykolum*.—Area 53 acres; soil indifferent; channel-fed; contains 180 ripe and 60 medium-sized trees; the principal trees are *Acacia Arabica*; taken up and added as a reserve in September 1873. It is reported that the past year's sowings are doing fairly.

497. Expenditure during the year has been Rupees 6, and up to the end of the year Rupees 70.

498. Receipts from the commencement of the year have been Rupees 2 and during the year Rupees 3.

499. Approximate estimate—

	RS.
Present value	27
Prospective value	...

500. *Agilandapuram*.—Area 18 acres; soil chiefly black cotton, a portion is indifferent; contains 328 ripe and 1,003 medium-sized trees and a fair number of seedlings; the principal trees are *Acacia Arabica*; taken up and added as a reserve in August 1872. The seedlings are said to be doing well.

501. Expenditure during the year has been Rupees 20, and from the commencement Rupees 476.

502. Receipts during the year Rupees 12, and from the commencement Rs. 34

503. Approximate estimate—

	RS.
Present value	34
Prospective value	329

504. *Kuttiyolum*.—Area 18 acres; rain-fed; soil chiefly black cotton; contains 328 ripe and 1,003 medium-sized trees and a fair number of seedlings. The principal trees are *Acacia Arabica*, taken up as a reserve in August 1872. Past year's seedlings are doing well; 63 head of cattle were impounded.

505. Expenditure during the year has been Rupees 4, and from the commencement Rupees 22.

506. Receipts during the year have been Rupees 8, and up to end of 1875-76 Rupees 22.

507. Approximate estimate—

	RS.
Present value	31
Prospective value	233

508. *Parachykolum*.—Area 105 acres; rain-fed; soil black cotton and indifferent contains 612 ripe and 315 medium-sized trees of babool and a large number of white thorn seedlings; taken up and added as a reserve in August 1872. Eighteen acres were dibbled with babool seed, which has not yet germinated owing to drought.

509. Expenditure during the year has been Rupees 24, and from the commencement Rupees 322.

510. Receipts during the year Rupees 22, and from the commencement Rs. 58.

511. Approximate estimate—

	RS.
Present value	81
Prospective value	...

512. *Sungalamdyarkolum*.—Area 45 acres; rain-fed; soil chiefly black cotton and indifferent; contains 623 ripe and 1,935 medium-sized trees and a fair number of seedlings; chief trees *Acacia Arabica*; taken up in August 1872. It is reported that the surviving seedlings of last year are progressing favorably. Seventeen acres were dibbled with babool seed, which proved a failure owing to drought.

513. Expenditure during the year was Rupees 10, and from the commencement Rupees 207.

514. Receipts during the year Rupees 14; and from the commencement Rs. 39.

515. Approximate estimate—

	RS.
Present value	59
Prospective value	450

516. *Karisalkolum*.—Area 148 acres; soil chiefly black cotton; contains 1,906 ripe and 4,621 medium-sized trees, principal trees *Acacia Arabica*; taken up in August 1872; it is stated that the surviving seedlings of the past years' sowings are doing well.

517. Expenditure during the year was Rupees 25, and from the commencement Rupees 493.

518. Receipts during the year Rupees 117, and up to end of the year Rs. 252.

519. Approximate estimate—

	RS.
Present value	304
Prospective value	...

520. *Nummany*.—Area 486 acres; soil chiefly black cotton; contains 4,210 ripe and 4,621 medium sized trees, chiefly *Acacia Arabica*; taken up as a reserve in September 1873; it is said that the past year's seedlings are doing well; 226 acres were dibbled with babool seed, which did not germinate on account of drought.

521. Expenditure during the year was Rupees 115, and from the commencement Rupees 389.

522. Receipts during the year have been Rupees 40, and from the commencement Rupees 51.

523. Approximate estimate—

	RS.
Present value	697
Prospective value	1,240

524. *Mudithalai*.—Area 200 acres; rain-fed; soil black cotton, taken up and added as a reserve in September 1873; it contains 7,140 ripe and 7,224 medium-sized trees, chiefly *Acacia Arabica*; 40 acres were dibbled with seed, which owing to drought did not germinate.

525. Expenditure during the year has been Rupees 61, and up to the end of the year Rupees 194.

526. Receipts during the year were Rupees 31, and from the commencement Rupees 112.

527. Approximate estimate—

	RS.
Present value	1,647
Prospective value	1,936

528. *Peria Perali*.—Area 100 acres; rain-fed; soil very indifferent; it contains 300 ripe and 585 medium-sized trees, chiefly *Acacia Arabica*; taken up and added as a reserve in December 1873.

529. Expenditure during the year was Rupees 13, and up to the end of the year Rupees 78.

530. Receipts—Nil.

531. Approximate estimate—

	RS.
Present value	47
Prospective	142

532. The expenditure will not be recouped on account of the bad soil.

533. *Sinna Peralai*.—Area 40 acres; rain-fed; soil very indifferent; contains 30 ripe and 200 medium-sized trees, chiefly *Acacia Arabica*; taken up and added as a reserve in December 1873.

534. Expenditure during the year has been Rupees 5, and from the commencement Rupees 43.

535. Receipts—*nil*.

536. Approximate estimate—

Present value...	RS.
Prospective value ...	...

537. *Andipulainkanoor*.—Area 103 acres; rain-fed; soil black cotton. It is stated that it contains a good many large seedlings, chiefly *Acacia Arabica*; taken up and added as a reserve in December 1873; seedlings are progressing well.

538. Expenditure during the year was Rupees 12, and from the commencement Rupees 73.

539. Receipts during the year Rupees 4, and from the commencement Rupees 4

540. Approximate estimate—

Present value...	RS.
Prospective value ...	64

541. *Pudukolam*.—Area 244 acres; rain-fed; soil indifferent; the principal trees are *Acacia Arabica*; it contains 1,050 ripe and 2,403 medium-sized trees; taken up and added as a reserve in September 1873; last year's seedlings are doing fairly; 195 acres were dibbled with seed, which entirely failed owing to drought.

542. Expenditure during the year Rupees 65, and from the commencement Rupees 312.

543. Receipts during the year Rupees 5, and from the commencement Rupees 25.

544. Approximate estimate—

Present value ...	RS.
Prospective value ...	129
...	582

545. *Tuticorin Block*.—Area 605 acres; soil sand; chief trees Woodie or Umbrella thorn; contains 1,100 ripe and 1,005 medium-sized trees and a fair quantity of seedlings; taken up and added as a reserve in August 1874. The surviving seedlings are doing fairly; one measure of casuarina seed collected; 246 acres were dibbled with seed, but on account of the drought did not germinate; 253 head of cattle impounded.

546. Expenditure during the year has been Rupees 290, and from the commencement Rupees 1,187.

547. Receipts in the year have been Rupees 68, and from the commencement Rupees 465.

548. Approximate estimate—

Present value...	RS.
Prospective value ...	...

549. *Sendimungalum*.—Area 32 acres; channel-fed; soil indifferent; contains 149 ripe and 216 medium-sized trees, chiefly *Acacia Arabica*; last year's seedlings have failed on account of the drought; taken up and added as a reserve in September 1874.

550. Expenditure during the year was Rupees 8, and from the commencement Rupees 43.

551. Receipts in the year were Rupees 3, and from the commencement

552. Approximate estimate—

Present value...	RS.
Prospective value ...	...

553. *Aruvangelum*.—Area 56 acres; channel-fed; soil black cotton; contains 887 ripe and 1,560 medium-sized trees, chiefly *Acacia Arabica*; taken up in September 1874.

554. Four hundred head of cattle were impounded, 606 trees were felled, the yield of which is 106 bandy-loads or 47 tons.

555. Expenditure during the year has been Rupees 59, and from the commencement Rupees 78.

556. Receipts during the year have been Rupees 265, and from the commencement Rupees 277.

557. Approximate estimate—

Present value ...	RS.
Prospective value ...	141
...	387

558. The expenditure has been recouped and a surplus shown.

559. *Naranummaulpoorum*.—Area 213 acres; channel-fed; soil indifferent; the principal tree is *Acacia Arabica*; contains 1,012 ripe and 481 medium-sized trees; taken up and added as a reserve in September 1874. It is stated that 34 acres were dibbled with seed, a portion of which germinated and died off for want of rain; 277 bamboo seedlings were planted out, only 30 of which are alive; 461 head of cattle were impounded.

560. Expenditure during the year has been Rupees 81, and from the commencement Rupees 135.

561. Receipts in the year were Rupees 93, and from the commencement Rs. 173

562. Approximate estimate—

Present value ...	RS.
Prospective value ...	...

563. The expenditure has been recouped.

564. *Rajavullypuram*.—Area 255 acres; channel-fed; soil very indifferent; contains 186 ripe and 445 medium-sized trees, chiefly *Acacia Arabica*; taken up and added as a reserve in September 1874; one hundred and fifteen acres were dibbled with babool seed, a portion of which germinated and died off for want of rain.

565. Expenditure during the year was Rupees 73, and from the commencement Rupees 129.

566. Receipts during the year were Rupees 10, and from the beginning Rs. 41.

567. Approximate estimate—

Present value ...	RS.
Prospective value ...	23
...	105

568. *Peerancolum*.—Area 31 acres; channel-fed; soil black cotton; contains 455 ripe and 258 medium-sized trees; taken up and added as a reserve in September 1874; 10 $\frac{3}{4}$ acres were dibbled with seed, which did not germinate for want of rain.

569. Expenditure during the year has been Rupees 9, and from the commencement Rupees 41.

570. Receipts during the year were Rupees 7, and up to the end of the year Rupees 15.

571. Approximate estimate—

Present value ...	RS.
Prospective value ...	69
...	79

572. *Alaganery*.—Area 39 acres; channel-fed; soil black cotton; contains 850 ripe and 891 medium-sized trees; taken up and added as a reserve in September 1874; 6½ acres were dibbled with babool seed which did not germinate for want of rain; 240 head of cattle were impounded.

573. Expenditure during the year has been Rupees 13, and from the commencement Rupees 41.

574. Receipts in the year were Rupees 11, and from the commencement Rs. 44

575. Approximate estimate—

Present value	Rs.
Prospective value	120
	235

576. The expenditure has been recouped.

577. *Aruvengolam*.—Area 2 acres; irrigated tope; soil indifferent; contains a few mango, nim, and casuarina trees; in all 1,068; taken up and added as a reserve in September 1874; babool seeds were sown all round to form a hedge.

578. Expenditure during the year has been Rupees 7, and from the commencement Rupees 71.

579. Receipts during the year were Rupees 5, and up to the end of the year Rupees 14.

580. Approximate estimate—

Present value	Rs.
Prospective value	35
	185

581. *Anantakristnapuram*.—Area 10 acres; irrigated tope; contains a few mango, nim and chittagathee trees; in all 446; taken up and added as a reserve in September 1874; during the year new fencing was erected all round, bare spaces were dibbled with vagai and nim seeds; all germinated, but a few only are alive.

582. Expenditure during the year has been Rupees 46, and from the commencement Rupees 117.

583. Receipts in the year were Rupees 8, and from the commencement Rupees 29.

584. Approximate estimate—

Present value	Rs.
Prospective value	...

585. The above reserves are chiefly in tank-beds, and they are all situated near the line of railway. A portion was inspected by the Conservator and a report submitted—*vide* G.O., No. 759, dated 21st February 1877.

586. The gross expenditure on all the reserves during the year has been Rupees 2,457 (inclusive of supervision charges), and from the commencement Rupees 10,924.

587. The total receipts during the year were Rupees 1,873, and from the commencement Rupees 3,730.

588. *North Coimbatore*.—There are four reserves in this division, known as the Mettapolliem H No. I, K No. II, and M No. III and Sholakurray, with an estimated area of 13,170 acres.

H No. I Reserve.—Is situated on the right bank of the Bhowani river above Nellitoray, some 5 miles from Mettapolliem; it is hilly and well clothed with trees. Estimated area 5,120 acres or 8 square miles. No felling has taken place during the year. It is unsurveyed, fenced on three sides, the Bhowani river being to the north. The principal trees are woonjul, vengay, tamarind and fuel-yielding trees.

589. Expenditure during the year has been Rupees 28, and from the commencement Rupees 739.

590. Receipts *nil*.

591. Approximate estimate—

	Rs.
Present value	3,000
Prospective value	...

592. *K No. II Reserve*.—Estimated area 3,840 acres; it lies on the left bank of the Bhowani river opposite to the H Reserve; the principal trees are teak, vengay, black-wood and jungle timber in patches of what might be called second-class forest, and it is rather a timber forest than a fuel reserve; in the midst of it there is also a quantity of Irulor cultivation. It will never pay to fence in the tracts or attempt the systematic conservancy of fuel until the Railway Company agrees to take all that can be delivered at Mettapolliem.

593. Expenditure during the year has been Rupees 27, and from the commencement Rupees 65.

594. Receipts *nil*.

595. Approximate estimate—

	Rs.
Present value	3,000
Prospective value	...

596. *M No. III Reserve*.—Estimated area 3,200 acres; it is situated on the left bank of the Bhowani not far from the Kotagherry ghaut; the chief trees are woonjul, vellanagay, munjakadumbay, &c. Many portions are quite bare; it is very rocky and stony, and quite unfit for cultivation, but adapted to grow heavy woonjul, if cattle and goats could only be excluded for a given period.

597. Expenditure during the year has been Rupees 54, and from the commencement Rupees 1,543.

598. Receipts from the commencement were Rupees 70, and during the year *nil*.

599. Approximate Estimate—

	Rs.
Present value	9,000
Prospective value	...

600. Mr. Morgan states that he is unable to give a correct estimate of the portion stocked, half stocked, &c., as they cannot be measured owing to dense and thorny undergrowth, but this full is the apparent estimate.

601. The gross expenditure of above reserves during the year has been Rs. 132 (inclusive of supervision charges), and from the commencement Rupees 2,370.

602. Receipts from the commencement have been Rupees 70, and during the year *nil*.

603. These were inspected by the Conservator and a report submitted—*vide* G.O., No. 298, dated 23rd January 1877.

604. It is a mistake calling these Mettapolliem tracts "Reserves;" they are quite open tracts and overrun by cattle and goats, and hacked about by cattle drivers and game snarers, and swept by fire.

605. *Sholakurray*.—Estimated area 1,010 acres; it is situated close to the railway line as the extreme western end of the Coimbatore District. The chief trees are teak, vengay, rosewood, poongay, karungally, vanny, mango, tamarind, pillamaradoo, &c.

606. Expenditure during the year has been Rupees 153 (inclusive of supervision charges), and from the commencement Rupees 14,093.

607. Receipts in the year were Rupees 933, and from the commencement Rupees 2,088 from all sources.

608. Approximate estimate.

609. The value of the fuel will quite depend on the demand from the Railway; there are numerous teak and other valuable timber saplings for which there will be fair sale.

610. SALEM.—There are eleven reserves in this division with an estimated area of 12,542 acres against 19,369 entered in last report; the difference is due to the reserves having been surveyed and demarcated by the Revenue Survey Department and the correct area ascertained.

611. A Reserve, Vadagumpetty.—A close reserve on both sides of the Railway line near the Shevaroy Hill station, taken up in 1866-67; surveyed and demarcated; contains *Albizia lebbek amara* and *Odoratissima*, *Azadirachta Indica*, *Zyzyphus glabrata*, *Prosopis spicigera*, *Chloroxylon swietenia*, *Conocarpus latifolia*, *Alouqua lamarkii*, *Dichrostachys cinerea*, *Cassia fistula*, *Acacia leucophylla*, *Pongamia glabra*, *Strychnos nuxvomica*, *Grewia Rothii*, *Erythroxylon Indicum*, *Capparis pyrifolia*, *Premna tomentosa*, *Dyospyros montana*, besides thorny scrub such as *Acacia latronum* and *Pteroloma lacerans* and small shrubs such as *Dodonaea*, *Fluggea*, &c.

612. It is fenced with stone walls and there are about 200 trees to the acre in the more fully-stocked portions. One acre of land was cleared of brushwood, &c., ploughed and sown broadcast with vagai, thooranjee, &c., seeds, but the young plants that germinated freely have withered on account of the drought.

613. Expenditure during the year has been Rupees 455, and from the commencement Rupees 3,646.

614. Receipts during the year were Rupees 1,254, and from the commencement Rupees 2,987.

615. Approximate estimate—

Present value	Rs. 17,705
Prospective value, at 2 tons per acre per annum, fixing fifteen years as the period of rotation	...

616. B Reserve, Maroor.—Close reserve; area 799 acres; taken up in 1866-67; abutting the Railway line on the west side half-way between the Shevaroy Hill station and Mullapooram. The principal tree is *Albizia amara*, and the others as in the A Reserve.

617. There are about 200 trees to the acre in the more fully-stocked portions. Broadcast sowing was carried out to the extent of one acre with babool, vengay, &c., seeds; although the germination of the seeds was at first very satisfactory, yet most of the plants died out for want of rain.

618. Expenditure during the year has been Rupees 228, and from the commencement Rupees 2,807.

619. Receipts in the year were Rupees 31, and from the commencement Rs. 68.

620. Approximate estimate—

Present value	Rs. 7,159
Prospective value, at 2 tons per acre per annum, fixing fifteen years as the period of rotation	...

621. C Reserve, Mullapuram.—It was originally taken up in 1866-67 for a plantation; it abuts the Railway line on the east side near the Mullapuram Railway station with an area of 587 acres. A close reserve; surveyed and demarcated; the trees are *Albizia amara* and *Prosopis spicigera*, *Acacia Arabica*, *Albizia speciosa*, *Azadirachta Indica*, *Cassia florida*, &c.; soil black cotton; and as it is impregnated with soda it is not deemed advisable to sow broadcast in any portion of it.

622. Expenditure during the year has been Rupees 135 and from the commencement Rupees 7,023.

623. Receipts in the year were Rupees 31 and from the commencement Rupees 305.

624. Approximate estimate—

Present value	Rs. 2,630
Prospective value at 1 ton per acre per annum, fixing fifteen years as a period of rotation.	...

625. D Reserve, Burgoor.—Taken up in 1866-67, area 221 acres; it is situated 5 miles to the south of Bangalore line, 16 miles to the west of Tripatty; all fenced partly with stone and partly with aloes; consisting of *Acacia sundra*, *Chloroxylon swietenia*, *Wrightia tinctoria*, *Canthium didymum*, *Premna tomentosa*, *Albizia Amara* and *Azadirachta Indica*, &c.; about 200 trees to the acre in the more fully stocked portions; soil red sand; no sowing has taken place for want of rain.

626. Expenditure during the year has been Rupees 138 and from the commencement Rupees 1,975.

627. Receipts during the year were Rupees 20 and from the beginning of the year Rupees 41 from all sources.

628. Approximate estimate—

Present value	Rs. 9,587
Prospective value estimated at 2 tons per acre per annum, fixing fifteen years as a period of rotation.	...

629. E Reserve, Poodoor.—Area 1,070 acres, taken up in 1863-67; two miles to the south of the Bangalore line and 18 miles to the west of Tripattore. A close reserve surveyed and demarcated; consisting of *Albizia Amara*, *Chloroxylon swietenia*, *Pongamia glabra*, &c.; about 200 trees to the acre in the more fully stocked portions; no broadcast sowing was carried out in this reserve for want of rain.

630. Expenditure during the year has been Rupees 262 and from the commencement Rupees 2,773.

631. Receipts during the year were Rupees 269 and from the commencement Rupees 290.

632. Approximate estimate—

Present value	Rs. 9,587
Prospective value at 2 tons per acre per annum, fixing fifteen years as the period of rotation.	...

633. Pillapillay.—Area 981 acres, taken up in 1873-74, situated to the east of the Railway line near the Shevaroy Hill station. A close reserve, surveyed and demarcated; consisting of *Albizia Amara* and similar trees to those in the A reserve; about 200 trees to the acre in the more fully stocked portions.

634. Expenditure during the year has been Rupees 216 and from the commencement Rupees 794.

635. Receipts in the year were Rupees 11 and from the commencement Rupees 22.

636. Approximate estimate—

Present value	Rs. 8,790
Prospective value at 2 tons per acre per annum, fixing fifteen years as the period of rotation.	...

637. Cooriappocombay.—Area 531 acres, taken up in 1873-74; it is situated from two to three miles to the east of the Railway line, about half way between the Shevaroy Hill station and Mullapooram, fenced partly with stone walls and partly with aloes. A close reserve, surveyed and demarcated; consisting of *Albizia Amara* and other trees similar to those in the A reserve; about 200 trees the more fully stocked portions.

638. During the year one acre of land was ploughed up and sown with Thurinjee, &c., seeds, which germinated well; but, owing to the drought, many of the young plants died off.

639. Expenditure during the year has been Rupees 151 and from the commencement Rupees 555.

640. Receipts during the year were Rupees 31 and from the commencement Rupees 38.

641. Approximate estimate—

Present value Rs. 4,758
Prospective value at 2 tons per acre per annum, fixing fifteen years as the period of rotation.

642. *Ummanary*.—Area 252 acres, taken up in 1872-73; it is situated to the west of the Railway line near the Shevaroy Hill station. A close reserve, surveyed and demarcated, and fenced partly with stone walls and partly with aloes: consisting of *Albizia Amara* and other trees the same as in A reserve; about 200 trees to the acre in the more fully stocked portions; one acre of land was sown broadcast with Babul and Thuringee seeds, but they have not germinated fairly.

643. Expenditure during the year has been Rupees 77 and from the commencement Rupees 1,283.

644. Receipts during the year were Rupees 11 and from the commencement Rupees 22.

645. Approximate estimate—

Present value Rs. 2,258
Prospective value estimated at 2 tons per acre per annum, fixing fifteen years as the period of rotation.

646. *Utengherry*.—Area 469 acres, soil stony, taken up in 1872-73; it is situated four miles to the east of the Railway line. A close reserve, surveyed and demarcated; consisting of *Albizia Amara* 90 per cent., *Cassia fistula*, *Strychnos nux vomica* and *Pongamia glabra*; about ninety trees to the acre in the more fully stocked portions.

647. One acre of land was ploughed up and sown broadcast with Babul and Thuringee seeds, very few of which germinated an account of the unfavorable season.

648. Expenditure during the year has been Rupees 268 and from the commencement Rupees 876.

649. Receipts during the year Rupees 25 and from the commencement Rupees 25.

650. Approximate estimate—

Present value Rs. 2,102
Prospective value estimated at 1 ton per acre per annum, fixing fifteen years as the period of rotation.

651. *Singarapett*.—Area 4,480 acres, taken up in 1874-75; situated twelve miles to the east of the Railway line near Singarapett. It is a close reserve, surveyed and demarcated; consisting of *Albizia Amara*, *Strychnos nux vomica*, *Chlororhylon swietenia*, and *Acacia sundra* (catechu), the latter largely represented 20 to 30 per cent.; about 300 trees to the acre in the more fully stocked portions.

652. Owing to bad weather no sowing has taken place during the year.

653. Expenditure during the year has been Rupees 479 and from the commencement Rupees 1,820.

654. Receipts during the year have been Rupees 25 and from the commencement Rupees 72.

655. Approximate estimate—

Present value Rs. 60,211
Prospective value at 3 tons per acre per annum, fixing fifteen years as the period of rotation.

656. *Harroor*.—Area 1,176 acres, taken up in 1874-75; situated near Harroor, six miles to the east of the Railway line. It is a close reserve, surveyed and demarcated; consisting of *Albizia Amara*, very largely represented, *Strychnos nux vomica*, and *Mimusops hexandra*, *Wrightia tinctoria*, &c.; about 100 trees to the acre in the more fully stocked portions. It was lately taken over and had suffered much from indiscriminate felling, and will not be fit to be felled again for a long time. Owing to bad weather no sowing has taken place during the year under review.

657. Expenditure during the year has been Rupees 147 and from the commencement Rupees 1,105.

658. Receipts during the year were Rupees 50 and up to the commencement of the year nil.

659. Approximate estimate—

Present value Rs. 5,268
Prospective value estimated at 1 ton per acre per annum, fixing fifteen years as the period of rotation.

660. The gross expenditure of all the reserves in this division during the year has been Rupees 3,245 (inclusive of supervision charges) and from the commencement Rupees 25,247.

661. Receipts during the year have been Rupees 1,759 and from the commencement Rupees 3,920 from all sources.

662. All these reserves were inspected by the Conservator and a report submitted—vide G.O. No. 1,172, dated 21st March 1877.

663. *Walliar*.—Estimated at 4,002½ acres. It is a close reserve, roughly demarcated and lately divided into sixteen blocks. Contents,—Teak coppice stunted, and saplings, several *Terminalias*, *Alangium*, *Albizia odoratissima* and *Lebbek*, *Phyllanthus emblica*, *Grewia tiliaefolia*, *Prosopis spicigera*, *Dichrostichys*, *Acacia sundra*, and *Leucophloeæ*, *Xylia dolabiformis*, *Dalbergia latifolia*, *Wrightia*, *Nauclea*, *Anogeissus*, *Lebidierspis orbicularis*, &c.

664. The period of rotation will be about 8 years and the yield of fuel at first felling 10 to 12 tons to the acre, but increasing under conservancy.

665. Teak will be sold separately and will yield a revenue of about Rupees 500 annually.

666. Expenditure during the year has been Rupees 754 (inclusive of supervision charges) and from the commencement Rupees 48,815.

667. Receipts in the year have been Rupees 855 and from the commencement Rupees 2,488 from all sources.

668. This reserve has been inspected by the Conservator, but this was in 1877-78, and a report is being submitted through the Collector of Malabar.

669. In conclusion, I hope that the above report may be found correct by the Board.

ENCLOSURES Nos. 1 to 27.—Reports of Divisional Officers on Plantation and Fuel Reserves.

ENCLOSURE No. 28.—General Report on Plantations.

ENCLOSURE No. 29.—General Report on Fuel Reserves.

Diligence 3142
R. H. BEDDOME, Lieut.-Colonel,
(Signed) Conservator of Forests.

OGTACAMUND,
31st October 1877.

OGTACAMUND,
31st October 1877.

THE Conservator's report on plantations and fuel reserves for the official year ending 31st March 1877 will be submitted for the orders of Government.

2. In planting there has been progress, 308½ acres having been added, but the season has been unfavorable.

Under firewood reserves there appears an addition of 10,612 acres, but this is entirely due to corrections, and the inclusion of reserves omitted in last year's statements.

3. Planting operations show an excess of expenditure over income up to date of Rupees 4,89,601 and in the reported year of Rupees 28,344.

Firewood reserves show an excess of income over expenditure up to date of Rupees 1,45,454 and in the year of Rupees 9,363.

4. Under all heads the expenditure exceeds the income up to date by Rupees 6,35,055 and in the year by Rupees 37,757.

But this expenditure represents much uphill work and growing valuable property.

5. There are 8,258½ acres of planted timber and 144,927¼ acres, say 226½ miles, of firewood reserve.

6. These results are shown in the first twenty-six paragraphs of the report. The rest deal in detail with the several plantations, which detail could seemingly be abbreviated and review rendered easier by the use of tabular statements with a remark column for peculiarities; the more so, the detail management comes more closely under review in the several inspection reports. It is observed that the promised report on the revised forms of plantations and fuel reserves has not yet been received.

(True Copies and Extract.)

(Signed) J. STURROCK,
Acting Sub-Secretary.

No. 214.

ORDER THEREON, 20th July 1878, No. 1,108.

Forests, No. 14.

RECORDED.

2. The Board's remarks in paragraph 6 should receive the attention of the Conservator.

(True Extract.)

(Signed) C. G. MASTER,
Secretary to Government.

To the Board of Revenue.
„ the Conservator of Forests.

Exd. A. S. Rodgers.

1108
25

Plantations and Fuel Reserves. — Recording with remarks Proceedings of the Board of Revenue submitting Forest Conservator's Report on — for the year ending 31st March 1877.

JULY.
Nos. 213-214.

THE BOARD OF REVENUE.

REVENUE.

Count of 1878

Due July 20th.

G.O. 2008 July 1878.

Vide int 4082/78.

No. 1,419.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 28th May 1878.
Read the following letter from Lieutenant-Colonel R. H. BEDDOME, Conservator of Forests, to H. E. STOKES, Esq., Secretary to the Board of Revenue, dated Ootacamund, 31st October 1877, No. 940-A:—

I HAVE the honor to submit the report on plantations and fuel reserves for the official year ended 31st March 1877 received from the divisions marginally noted.

Plantations.	Fuel Reserves.
1. Ganjam.	1. Cuddapah.
2. Cuddapah.	2. North Arcot.
3. North Arcot.	3. South Arcot.
4. South Arcot.	4. Trichinopoly.
5. Trichinopoly.	5. Madura.
6. Madura.	6. Tinnevely.
7. North Coimbatore.	7. North Coimbatore.
8. South Coimbatore.	8. Salem.
9. Nilgiris.	9. Malabar.
10. Salem.	
11. South Canara.	
12. Malabar.	

2. Owing to increased statistic details required year by year in addition to numerous other reports and returns now required to be submitted, I beg that the Board will be good enough to fix the date of the submission of this report on the 31st October of each year, as it is impossible with my limited establishment to submit it earlier.

3. The information called for in paragraph 5 of the Board's Proceedings, embodied in G.O., dated the 25th April

1877, No. 1,551, will be submitted with the promised report upon the revised forms of plantations and fuel reserves after the completion of my inspection tour of South Arcot, &c., divisions.

4. With reference to paragraph 9 of the Board's Proceedings, dated the 6th October 1876, No. 2,525, I beg to state that the information therein called for is duly given in this report.

5. I have included in the list the Gumsur and Mettapoliem plantations, and also the sum of Rupees 80,000 paid for land at Nilambur in accordance with paragraphs 4 and 5 of G.O., No. 1,551, of the 25th April 1877.

6. Agreeably to paragraph 9 of the above Government Order, and to paragraph 7 of the Board's Proceedings, No. 604, dated the 13th February 1877, I have treated the expenditure according to the headings of the Budget, and included the proportionate share of establishment charges.

7. Adverting to paragraph 3 of G.O., No. 2,186, dated the 3rd July 1877, I beg to state that the sums expended on the South Arcot and Nilgiri plantations prior to their transfer to this department have been duly included in this report.

8. In consequence of the inclusion of the above charges, the figures under expenditure and receipts of the plantations and fuel reserves will differ greatly from those given in the Administration Report for 1876-77.

9. The subjoined statement shows the net difference between this and last year's special statements:—

Divisions.	EXPENDITURE UP TO END OF 1875-76.			Remarks.	RECEIPTS UP TO END OF 1875-76.			Remarks.
	As per last report.	As per this report.	Difference.		As per last report.	As per this report.	Difference.	
Gunsur and Surada	Rs. 41,254	Rs. 237	+ 237	Newly added to this list	Rs. 7,639	Rs. 7,659	+ 20	Not shown last year by Mr. Sheffield against Vannavadu.
Cuddapah	...	41,253	-	Omission of the fractional part of a rupee.	...	...	...	Receipts from Jungle Conservancy before transfer to the Forest Department.
North Arcot	...	40,555	+	Difference of the omissions of the fractional part of a rupee.	...	...	...	
South Arcot	9,058	32,006	+ 22,948	Total expenditure incurred on most of the plantations before their transfer to the Forest Department, and also other charges not shown in the statement.	99	15	+	
Trichinopoly	34,891	34,929	+	Not shown last year by Mr. Hadfield against Adavathur plantation owing to the land being under dispute.	3,993	4,749	+ 1,656	Vide remarks to expenditure on Adavathur plantation.
Madura	5,314	5,410	+	Not shown last year by Mr. Brongham.	...	...	...	
North Coimbatore	...	177	+	Included this year—vide paragraph 4 of G.O., No. 1,551, dated 25th April 1877.	...	...	...	
South Coimbatore.	3,758	768	+	Do.	...	...	...	
Nilgiris	16,619	3,759	+	Difference of the omission of the fractional part of a rupee.	...	...	...	
		71,416	+ 54,797	Total expenditure incurred on these plantations prior to their transfer to the Forest Department.	16,337	44,119	+ 27,782	Receipts from Jungle Conservancy and other departments prior to the transfer of the plantations to the Forest Department.
Total ...				Total ...	27,168	56,684	+ 29,516	

Salem	...	3,550	+	3,550	Included in the list—vide paragraph 4 of G.O., No. 1,551, dated 25th April 1877.
Malabar	2,27,771	3,07,771	+	80,000	Being the sum paid for land—vide paragraph 4 of G.O., dated 25th April 1877, No. 1,551.
Total ...				5,41,831	
				+ 1,62,615	

11. *Plantations.*—The accompanying Statement A shows the total acreage, expenditure (inclusive of all charges incurred both in this and other Public Departments and also supervision charges), receipts and the present and prospective value of the Imperial plantations in each forest division, and the following is an abstract of it:—

* N.B.—Inclusive of Rupees 45,000 paid from land purchased in Malabar.

18. The area of the firewood reserves has been increased by about 17,440 since last report, being the area of the Madura Reserves not shown last year.

19. The decrease of 6,828 acres is accounted for as follows.

19. The decrease of 6,828 acres is accounted for as follows:

20. One acre shown less in Tinnevely and 6,827 in Salem; the cause of the former is less shown than last year against Peccancolum, and the latter being the correct area ascertained by the Revenue Survey Party.

Estimated at $144,927\frac{1}{4}$ compared with

Divisions.	EXPENDITURE UP TO 31ST MARCH 1876.			Remarks.	RECEIPTS UP TO 31ST MARCH 1876.			Remarks.
	As per last report.	As per this report.	Difference.		As per last report.	As per this report.	Difference.	
Cuddapah ...	Rs. 25,019	Rs. 25,020	+ 1	Difference of the fractional part of a rupee.	Rs. 1,246	Rs. 2,277	+ 1,031	Receipts from Jungle Conservancy prior to transfer of certain reserves to Forest Department.
South Arcot ...	...	...	...		1,753	1,857	+ 104	Mr. Hayne omitted to show last year, vide paragraph 3 of G.O., dated 21st February 1877, No. 759.
Tinnevely ...	...	...	...		...	...	...	
Salem ...	22,001	22,002	+ 1	Difference of the fractional part of a rupee.	...	...	...	
Total ...	47,020	47,022	+ 2	Total ...	2,999	4,134	+ 1,135	

25. The receipts during the year have been Rupees 12,978 and from the commencement Rupees 23,819 from all sources.

26. The following remark on the district returns will show what progress has been made in each division during 1876-77 under review.

PLANTATIONS.

27. GANJAM.—Gumsur Experimental.—The plantation was commenced in 1869-70; it is said that it consists of Teak, *Acacia Arabica*, *Poinciana regia*, *Sapindus emarginatus*, *Sumach*, *Inga dulcis*, *Mangifera Indica*, *Asoca Cordia Myxa*, *Cedrus deodara* and *Bignonia suberosa*. There were 414 trees, out of which 68 casualties are said to have occurred by white-ants, &c.

28. The Ranger in charge of this division reports that the Teak trees are thriving very well and are in a flourishing condition, owing to the soil being well adapted for them; the *Cedrus deodara*, *Sumach*, *Mangifera Indica*, *Bignonia suberosa* and *Cordia Myxa* are thriving pretty fairly, but the rest are of very poor growth. No further expense will be incurred on this plantation except Rupees 3 per mensem, being the pay of a Mallee. Extension of this plantation is not contemplated.

29. Expenditure during the year was Rupees 58 (inclusive of supervision charges) and from the commencement Rupees 295. Receipts nil. Approximate estimate not received.

30. CUDDAPAH.—There are five plantations in this division, viz., 1 Red Sanders at Cadoor, and 4 firewood for the supply of Railway fuel to the Locomotive Department at Ooperapully, Reddipully, Pullumpett, and Camalapore.

31. The Red Sanders Experimental Plantation.—The extent of this is 50 acres near the Railway line at the Cadoor station surrounded by a ditch and aloe fence. In this plantation the Red Sanders has been a success; there are nearly 15,000 trees growing very straight and looking exceedingly healthy, and will be fit for felling in about 18 or 20 years. A few acres proved unfit for Red Sanders and were planted up with Teak and various other trees. These seem to be a failure, and the Teak trees are fast dying out.

32. It is not proposed to extend the planting of Red Sanders trees owing to the present uncertainty as to whether the planted trees will yield heartwood. The expenditure is now limited to the pay of a Maistry, whose services have been retained to look after the plantation. Every attention is being paid to the Red Sanders trees and their progress carefully watched; owing to two bad seasons there have been casualties.

33. This plantation was started in 1865; the expenditure during the year has been Rupees 146, the cost of temporary establishment, and from the commencement Rupees 5,923. Receipts nil.

34. Approximate estimate—

	RS.
Present value ...	11,330
Prospective value ...	45,332

35. Ooperapully—Fuel Plantation.—This plantation is situated near the Railway line about 6 miles to the south of the Godoor Railway station; it was commenced in 1868-69; the extent is 85 acres planted and 20 unplanted. The chief trees are *Pterocarpus santalinus*, *Acacia Arabica*, *Albizia lebbek* and *Amara*, *Eugenia jambolana*, *Casuarina equestifolia*, *Muddy*, *Tandra*, *Santalum album*, *Chloroxylon swietenia* and *Pongamia glabra*.

36. It has suffered much from the long drought and most of the trees are dying out: 8,159 casualties occurred during the year, but as the few trees of Tellatumah here and there are all looking healthy, it is contemplated to commence broadcast sowing of this when the seasons are favorable. No extra expense has been incurred, and only two men, at a cost of Rupees 13, are watching the plantation.

37. Expenditure during the year has been Rupees 179 and from the commencement Rupees 7,512. Receipts nil.

38. Approximate estimate—

	RS.
Present value ...	646
Prospective value quite uncertain, but given at ...	2,762

39. Reddipully.—This plantation lies about a mile and a half from Reddipully Railway station bordering on the west of the line with a planted area of 450 acres and unplanted 474, containing *Acacia Arabica*, *Albizia lebbek* and *Amara*, *Melia Azadirachta*, *Muddy*, *Tandra*, *Eugenia jambolana*, *Pongamia glabra*, *Casuarina equestifolia*, *Poinciana regia*, and *Mangifera Indica*. This plantation is not promising; most of the planted trees have perished from drought; the number of casualties during the year is 6,785. Except Tellatumah most of the trees have been a perfect failure; it is contemplated to sow the Tellatumah broadcast during the rainy season; expenditure is limited to the pay of two watchers, at a cost of Rupees 13 monthly.

40. Expenditure during the year has been Rupees 171 and from the commencement Rupees 12,287. Receipts nil.

41. Approximate estimate—

	RS.
Present value ...	5,748
Prospective value quite uncertain, but given at ...	24,376

42. Pullumpett.—This tract is divided into two plots lying on both sides of the Railway line and midway between the Reddipully and Rajampett stations about 4 miles each way. It was started in 1871-72; 169 acres planted with *Acacia Arabica*, *Albizia lebbek* and *Amara*, *Melia Azadirachta*, *Eugenia jambolana*, *Cassia florida*, *Tandra*, *Muddy*, *Inga saman*, *Casuarina equestifolia*, *Pongamia glabra*, and *Tamarindus Indica*.

43. This plantation may be considered a failure, as all the trees are dying out owing to the long drought and poor soil; before condemning it however and the other firewood plantations in this district, broadcast sowing of *Acacia leucophloea* (the Tellatumah) and *Prosopis* (Jamboo) will be undertaken during the rainy season as these trees promise good growth. No expenditure has been incurred other than the pay of 2 watchers, viz., Rupees 13.

44. Expenditure during the year was Rupees 178 and from the commencement Rupees 7,126. Receipts nil.

45. Approximate estimate—

Present value	RS. 2,511
Prospective value quite uncertain, but given at	10,616

46. *Camalapore*.—The plantation is situated about a mile from the Railway station and on the south bank of the Paupugnee river, with a planted area of 222 acres and 22 acres not planted; commenced in 1869-70.

47. It consists of *Acacia Arabica*, *Albizia lebbek* and *Amara*, *Casuarina equisetifolia*, *Cassia florida*, *Inga saman*, and *Duteis* and *Pongamia glabra*; the trees have suffered very much from drought, especially the *Casuarina*, of which a large number have died. The broadcast sowing of *Tellatumah* and *Jamboo* will be undertaken during the rainy weather. No extra expenditure has been incurred except the pay of two watchers, viz., Rupees 13 monthly.

48. Expenditure during the year has been Rupees 206 and from the commencement Rupees 9,336.

49. Receipts from the commencement Rupees 15 and during the year nil.

50. Approximate estimate—

Present value	RS. 1,542
Prospective value quite uncertain, given at	6,499

51. An attempt was made to plant experimentally (in the above four fuel plantations) Carob (*Ceratonia Tiligua*) and the Misquith (*Prosopis juliflora*); the former is a failure, but the latter promises to be a success. The Carob is indigenous to the Levant and is not likely to grow in the plains at this latitude, though it will succeed at an elevation between 3,000 to 5,000 feet; the Misquith is from tropical America, and is said to be a drought-loving tree, the timber of which is valuable as first-class firewood and the pods as forage.

52. The gross expenditure of all the plantations in this division during the year has been Rupees 1,153 (inclusive of supervision charges) and from the commencement Rupees 42,406.

53. Receipts during the year nil, and from the commencement Rupees 15.

54. I inspected all the Cuddapah plantations during the year, and my report has been received by the Board and Government (*vide* G.O., No. 1,974, dated 13th June last.)

55. *NORTH ARCOT*.—There are nine plantations aggregating a planted area of 995 acres; of which one is experimental at Ammerdy, and the other eight are firewood at Trivellum, Veerinjepuram, Thengal, Keelminnel, Cheynoor, Gazulamandum, Vana-yadoo, and Ammoondy; they are almost entirely composed of *Casuarina* planted in sandy tracts in the vicinity of river beds. Owing to the failure of two successive monsoons the trees have been dying out considerably.

56. *Ammerdy*, mixed timber, firewood, &c., with a planted area of 25 acres, is situated near Culput about twelve miles from Vellore; commenced in 1867-68. This is an experimental plantation; all the trees grow well, the growth of the *Inga saman* especially is rapid.

57. Number of casualties during the year is 3,000.

58. Expenditure during the year Rupees 103 (mainly for improvement and conservation) and from the commencement Rupees 2,997. Receipts nil.

59. Approximate estimate—

Present value	Unknown.
Prospective value	Valuable for experiments and for the yield of seed.

60. *Trivellum* is situated about eight miles east of the Vellore Railway station at the junction of the Poiney and Palar rivers; commenced in 1868 and finished in 1872; planted with 13,000 *Casuarina* trees at 15' x 15' over an area of about 435 acres; besides the above about 50,000 palmyras around the fencing and division blocks and 15,000 *Albizia*, &c.

61. It is reported that in 1872, 20,000 plants were destroyed by floods and in 1874, 25,000 plants died out from drought; since then very large numbers have died from heat and drought, and most of them were felled and sold.

62. It is stated that there are about 15,000 large trees from 50 to 80 feet high and 65,000 small plants from 3 to 6 feet high alive, besides the palmyras and *Albizia*, and it is proposed to plant out two lakhs of plants during the rainy season.

63. By an oversight Mr. Sheffield omitted the sum of Rupees 84 under total receipts which was subsequently included in this report on the receipt of satisfactory explanation from that officer.

64. The expenditure during the year was Rupees 1,120 (mainly for improvement and conservation) and from the commencement Rupees 14,686; the receipts have been Rupees 11,729.

65. Approximate estimate—

Present value of the 15,000 large trees is about Rupees 7,000, so that the plantation will more than repay all expenditure.

66. Prospective value—

Quite uncertain but Mr. Sheffield expects eight years hence 30 tons per acre at 3 Rupees per ton... = 39,150

67. *Veerinjepuram* is situated about one mile south of the Railway station of that name in the old bed of the Palar river. Commenced in 1870 and carried on till 1874, when 191,000 *Casuarina* plants were put out over an area of 260 acres, and in October of the same year about 80,000 plants were lost by flood, and since then a large number by drought and heat. It is reported that there are now probably 80,000 living trees, and most of them are small and of no marked value; the large trees are perhaps worth about Rupees 3,000, and the dead wood now being supplied to the jail will realize about Rupees 3,000.

68. Mr. Sheffield states that everything is ready for replanting the whole of the ground as soon as good rain sets in.

69. The expenditure during the year (chiefly for improvement and conservation) was Rupees 889 and from the commencement Rupees 10,994.

70. Receipts during the year Rupees 12 and from the commencement Rs. 12.

71. Approximate estimate—

Present value	RS. 3,000
Prospective value eight years hence when the whole is planted and fit for felling say 30 tons per acre, at Rupees 3 per ton	= 21,000

72. *Thengal* is situated about 1½ miles south of the Poiney Railway bridge and opposite to the Trivellum plantation. It is reported that the small quantity of wood on this plantation has been felled and sold, and it is not proposed at present to replant it.

73. The whole of the wood has not been paid for yet, but when it is the Deputy Conservator thinks the receipts will be about equal to the expenditure.

74. Mr. Sheffield suggests that this plantation (only about 9 acres) may be excluded from future reports, in which I fully concur.

75. The expenditure during the year has been Rupees 127 (mainly for improvement and conservation) and from the commencement Rupees 930.

76. Receipts during the year nil, and from the commencement Rupees 407.

77. *Keelminnel* is situated south of the Palar river opposite to the Trivellum plantation and about one mile from the Trivellum Railway station. The area planted is 150 acres of *Casuarina*; commenced in March 1873; destroyed by the flood in October 1874 and replanted in the same year; since then the drought of the past

45. Approximate estimate—

Present value	RS. 2,511
Prospective value quite uncertain, but given at	10,616

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70. Receipts during the year Rupees 12 and from the commencement Rs. 12.

71. Approximate estimate—

Present value	RS. 3,000
Prospective value eight years hence when the whole is planted and fit for felling say 30 tons per acre, at Rupees 3 per ton	= 2,700

72. *Thengal* is situated about 1½ miles south of the Poiney Railway bridge and opposite to the Trivellum plantation. It is reported that the small quantity of wood on this plantation has been felled and sold, and it is not proposed at present to replant it.

73. The whole of the wood has not been paid for yet, but when it is the Deputy Conservator thinks the receipts will be about equal to the expenditure.

74. Mr. Sheffield suggests that this plantation (only about 9 acres) may be excluded from future reports, in which I fully concur.

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76. Receipts during the year nil, and from the commencement Rupees 407.

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two years has killed about 75 per cent. of the plants. It is reported that arrangements are now complete for replanting during the coming rainy season if it is favorable. Number of casualties during the year 110,000.

78. The expenditure during the year (mainly for improvement and conservation) was Rupees 555, and from the commencement Rupees 3,598.

79. Receipts during the year Rupees 36, and from the commencement Rs. 2.

80. Approximate estimate—

Present value of live and dead wood	RS.
Prospective value quite uncertain, but Mr. Sheffield estimates the probable value eight years hence when the whole is planted and ready for felling	1,500
	13,500

81. *Cheygnoor* planted with various trees and Casuarina over an area of 81 acres, situated close to the line of Railway and two miles west of the Vellore station. It was commenced in 1870-71; 20,000 trees now growing, soil gravelly and very poor, and it is not intended to plant more or to go to any further expense beyond the pay of a watcher. Number of casualties occurred during the year is 61,000.

82. Expenditure during the year (chiefly for improvement and conservation) Rupees 159, and from the commencement Rupees 5,097.

83. Receipts nil.

84. Approximate estimate—

Present value	RS.
Prospective value ten years hence	2,000
	5,000

85. *Gazulamundum*.—It consists of Casuarina over an area of 44½ acres commenced in 1871-72; it is situated close to the line of Railway and two miles south of the Tripatty station. This plantation has suffered greatly from drought as it lies high above the water land. No further planting will be undertaken. Number of casualties during the year 24,000.

86. Expenditure during the year (chiefly for improvement and conservation) has been Rupees 186, and from the commencement Rupees 2,983. Receipts nil.

87. Approximate estimate—

Present value perhaps	RS.
Prospective value four years hence	500
	1,000

88. *Vanavadoo*.—Casuarina with a planted area of 30 acres; commenced in 1873-74 and situated north of the Palar river near Wallajapett and about 4½ miles from the Arcot Railway station. This is a small plantation; all planted up, but the growth is not good. Number of casualties during the year 10,000.

89. Expenditure during the year (mainly for improvement and conservation) was Rupees 216, and from the commencement Rupees 2,110.

90. Receipts during the year nil and from the commencement Rupees 32.

91. Approximate estimate:—

Present value	RS.
Prospective value five years hence about	1,250
	3,000

92. *Ammoondy*.—Casuarina over 10 acres with an area of 150 acres unplanted; situated in the Palar river about 6 miles west of Vellore and about 9 miles from the Railway station. Formed in 1874. Fences destroyed in the same year by flood; 21,000 planted in 1875-76; lost by drought about 15,000, and it is reported that all arrangements are now complete for planting 100 acres during the ensuing season if the weather is favorable.

93. Expenditure during the year (mainly for improvement and conservation) was Rupees 541 and from the commencement Rupees 2,053. Receipts nil.

94. Approximate estimate—

Present value	RS.
Prospective value 8 years hence when planted up and fit for felling	Nil.
	14,400

95. I inspected the whole of these plantations during the year under review, and have submitted a separate report on them on the 30th December 1876, which is now before the Board and Government.

96. Mr. Whiteside, the Collector, lately obtained the sanction of Government to utilize Rupees 3,000 from the famine grant for the upkeep by watering of some of these Casuarina tracts.

97. The total expenditure on all the plantations (inclusive of supervision charges) during the year amounted to Rupees 6,365 and from the commencement Rupees 46,920.

98. Receipts during the year Rupees 4,557 and from the commencement Rupees 12,216.

99. *SOUTH ARCOT*.—In this division there are 12 plantations with a planted area of 576½ acres, out of which one is experimental at Chengum, and the remainder firewood at Trivanullore, Yedayur, Andrayanore, Gramam, Kumurumbett, Arasoor, Valore, Pooniar anicut, Merkanum, Agaram, and Achicadoo. These were transferred from jungle to Imperial conservancy on the 1st April 1875.

100. *Chengam Anicut (Experimental)*.—Containing forest and avenue trees over an area of 11½ acres; formed in 1871-72; it is reported that during the year a fire occurred by the carelessness of a cattle driver and 380 casualties were the result, and many trees died from drought, of which 570 were replaced. The number of saplings that existed at the close of the year under review was 8,603.

101. Expenditure during the year (chiefly for improvement and conservation) was Rupees 79, and from the commencement Rupees 836. Receipts nil.

102. Approximate estimate—

Present value. Mr. Wooldridge states that the value of the wood from saplings if now cut down would be Rupees 200, and the grazing is fully worth 12 Rupees a year but not leased out on account of young trees.	
Prospective value quite uncertain, though Mr. Wooldridge attempts to estimate it at 3,500.	

103. *Trivanullore*.—Casuarina—situated in the Multar bed with a planted area of 172½ acres. Operations commenced in May 1872; first field planted in September 1872; existing trees at the commencement of the year 48,874. The number of casualties in the year was 32,587 owing to the long drought.

104. It is stated that during the year 8 acres ("bare") were hard worked and sown with margosa and *Acacia speciosa* seeds. The weight of firewood obtained by felling and rooting out saplings is tons 77, cwt 13 and lbs. 28; it is stated that there is no balance of wood in stock.

105. Expenditure during the year (mainly for improvement and conservation and inclusive of charges, viz., Rupees 233-9-0, being cost for carriage of wood, &c., not included by Mr. Wooldridge) was Rupees 655, and from the commencement inclusive of all charges, Rupees 14,570.

106. Receipts during the year Rupees 267, and from the commencement Rupees 349 from all sources.

107. Approximate estimate—

Present value	RS.
Prospective value at date of felling, viz., in 1879, 1880, 1881, and 1882	2,000
	4,465

108. The Conservator does not understand how such a large expenditure from Jungle Conservancy Funds has given such a poor result, but he has not yet been able to inspect this division. He is now proceeding there.

109. *Yadapur*.—Situating in the Multar bed, consists chiefly of *Casuarina* for railway fuel supply with a planted area of $30\frac{1}{4}$ acres. Operations commenced in 1873, and the first field planted in October of the same year. Of the 30 acres originally planted, about 25 acres were washed away by flood or destroyed by drought; it is stated that there were 2,715 trees at the close of the year under review; casualties that occurred during the year were 6,849, of which 600 were replaced; 188 yards of fencing were carried out; 2 acres of the bare were dibbled with *Albizia speciosa*, *Margoza*, and *Cassia florida*.

110. The yield from felling and rooting out saplings during the year was 8 tons 18 cwt. 64 lbs.

111. Expenditure during the year (inclusive of extra charges for collecting, felling, and storing, viz., Rupees 26-14-5) has been Rupees 115, and from the commencement (inclusive of all charges) Rupees 1,645.

112. Receipts during the year Rupees 31, and from the commencement Rupees 40 from all sources.

13. Approximate estimate:—

Present value Rupees 225, viz.—			
2000 poles at $1\frac{1}{2}$ Annas each	Rs.	A.	P.
Loppings	187	8	0
	37	0	0
	224	8	0

114. Prospective value:—

Quite uncertain though Mr. Wooldridge attempts to estimate it at 605 Rupees in 1880.

115. *Andrayanore* is situated at the head of the Mutlar bed near the present Public Works Department conveyer bund; it consists chiefly of *Casuarinas* over an area of about $24\frac{1}{4}$ acres commenced in 1873, and the first field planted in October of the same year. Of the land originally planted 22 acres have become quite bare by flood as already reported.

116. It is stated that the existing trees at the close of the year were 1,580, four and a half acres of the bare land were dibbled with *Acacia Arabica* and *Cassia florida*. Number of casualties during the year 3,470, of which 3,10 were rooted out and sold as dead wood.

117. The yield from felling and rooting out saplings was 1 ton 15 cwt. 54 lbs.

118. Expenditure during the year (inclusive of Rupees 2-15-6, being the extra or expense for collecting and rooting out saplings) has been Rupees 51, and from the commencement inclusive of all charges, Rupees 1,144.

119. Receipts during the year Rupees 5, and from the commencement Rupees 33.

120. Approximate estimate—

Present value nil.

Prospective value quite uncertain, though Mr. Wooldridge attempts to estimate it at 300 Rupees in 1882.

121. *Gramum* is situated on the eastern side of the Multar bed and chiefly consists of *Casuarina* over an area of $62\frac{1}{4}$ acres. It is reported that it was commenced in 1873 and the first field planted in September of the same year, and about 26 acres have become bare by casualties from both flood and drought; 11,706 casualties occurred during the year, out of which 1,713 were replaced. The yield from felling and rooting out saplings in the year was tons 7, cwt. 17 and lbs. 41.

122. Expenditure during the year (inclusive of Rupees 32-3-5, being the extra cost not included in the statement) was Rupees 520 and from the commencement Rupees 3,334.

123. Receipts during the year Rupees 26 and up to the end Rupees 26.

124. Approximate estimate—

	RS.
Present value of wood on the plantation Rs. 784, viz.—	
5,500 poles at $1\frac{1}{2}$ Annas	516
14,560 yearlings, saplings, and loppings from poles above given	268
Total	784

Prospective value quite uncertain, though Mr. Wooldridge attempts to estimate it at Rupees 3,555 in 1880-82.

125. *Kunnarumbut*, is situated in the Multar bed; it consists chiefly of *Casuarina* over an area of 69 acres commenced in 1873, and the first field planted in November of the same year; 34,425 trees existing at close of the year, 7,951 casualties occurred, of which 3,685 were replaced during the year under review; the yield was tons 10, cwt. 4, and lbs. 27.

126. Expenditure during the year (inclusive of Rupees 47-4-3, being the charges for collecting, felling and storing) was Rupees 683, and from the commencement Rupees 4,472 inclusive of all charges.

127. Receipts during the year has been Rupees 27 and from the commencement Rupees 32.

128. Approximate estimate—

	RS.
Present value of wood Rs. 936, viz.—	
6,000 poles at $1\frac{1}{2}$ Annas	562
20,700 yearlings, saplings, and loppings from poles	373
Total	935

Prospective value quite uncertain, though it is estimated by the Deputy Conservator at Rupees 4,180 in 1880-82.

129. *Arasoor*.—Situating five miles east of Trivanallore in the Multar bed with an estimated area of $583\frac{3}{4}$ acres—is a tract taken up for a *Casuarina* plantation, but planting has not yet commenced.

130. *Valore*, in the Trikaloor taluq, is a mixed plantation for firewood and Velvalum, Karuvalum, Katvalai, and Margosa for general use; it has an area of 139 acres, of which only $22\frac{1}{2}$ have as yet been planted; operations begun in 1873, and the first field planted in December of the same year; 3,929 casualties having occurred, none of which were replaced.

131. Acres 4 were ploughed and sown with $91\frac{1}{2}$ measures of *Acacia Arabica*, *A. Speciosa*, *Margosa*, *Casuarina*, &c., at Rupees 9-4-0 per acre. The land lies at a high level, and it was quite bare at the commencement; and, owing to two successive unfavorable seasons it was found very difficult to get the ground at all well covered; the plantation was originally intended for Velvalum, as the bark of this tree is in great demand for distilling purposes.

132. Expenditure during the year has been Rupees 411 and from the commencement Rupees 1,575. Receipts nil.

133. Approximate estimate—

	RS.
Present value of wood on the land	125
Prospective value quite uncertain, estimated at	2,000

162. Receipts during the year have been Rupees 57, and up to the end Rupees 308 from all sources.

163. Approximate estimate—

Present value...	RS.
Prospective do.	13,000
	not stated.

164. *Manatallai*.—On the Cauvery bank, distance from the railway line $1\frac{1}{2}$ miles; the estimated area is $33\frac{1}{4}$ acres, soil sandy, $8\frac{1}{2}$ acres are planted with *Casuarina* and $1\frac{1}{2}$ acres with acacias. The growth is very good, but it will take some four years or so before the trees are fit to be felled, as the plantation is a new one.

165. Expenditure during the year has been Rupees 482, and from the commencement Rupees 1,993.

166. Receipts during the year Rupees 8, and from the commencement Rupees 101 from all sources.

167. Approximate estimate—

Present value ...	RS.
Prospective do.	2,300
	not given.

168. *Sittalvai* is situated on the Cauvery bank about a mile from the railway line, consisting chiefly of *Casuarina* over an area of 110 acres all planted.

169. The growth is splendid, but will require two or three years before felling can be carried out.

170. Expenditure during the year Rupees 576, and from the commencement 6,119 Rupees.

171. Receipts Rupees 60, and up to the end of the year Rupees 387 from all sources.

172. Approximate estimate—

Present value ...	RS.
Prospective do.	12,000
	not given.

173. *Sekkanum*.—On the Cauvery bank $1\frac{1}{2}$ miles from railway line; consists chiefly of *Acacia Arabica* (Babul) with a planted area of $92\frac{1}{2}$ acres; the growth is good and will be fit for felling some four or five years hence, about 20 acres remain to be planted.

174. Expenditure during the year has been Rs. 430 and from the commencement Rupees 1,961.

175. Receipts during the year have been Rupees 22, and from the beginning Rupees 585 from all sources.

176. Approximate estimate—

Present value	RS.
Prospective do.	7,000
	not given.

177. *Kuttalai*.—On the Ambravathy and Cauvery banks, distant from the railway line $1\frac{1}{2}$ miles; consists of *Casuarina* and Babul planted over an area of 52 acres; the growth is not very good, and it will take five or six years before the trees can be felled.

178. Expenditure during the year has been Rs. 1,372, and from the commencement 6,041 Rupees.

179. Receipts during the year have been Rupees 30, and from the commencement Rupees 151.

180. Approximate estimate—

Present value...	RS.
Prospective do.	8,500
	not given.

181. *Pudur* distant from the railway line about half a mile, a tank bed; area 94 acres, of which 86 have been planted with Babul in 1875; the seedlings coming up exceedingly well. It will take five years before felling can be commenced. Owing to much drought the number of casualties during the year were 3,900, the whole of which have been replaced.

182. Expenditure during the year has been Rupees 94, and from the commencement Rupees 276.

183. Receipts in the year 18 Rupees, and from the commencement Rupees 275.

184. Approximate estimate—

Present value ...	RS.
Prospective do.	4,500
	not given.

185. *Kolamanikkun*.—On the Coleroon bank, area $216\frac{1}{2}$ acres, of which $84\frac{1}{2}$ have been planted with *Casuarina* in 1874-75; distant from Tanjore 12 miles; the growth is good, but it will not be ready for felling for five or six years.

186. It requires to be extended as there are $157\frac{1}{2}$ acres more to be planted.

187. Expenditure during the year has been Rs. 1,130, and from the commencement Rupees 2,894.

188. Receipts during the year have been Rupees 121 and up to the end Rs. 221.

189. Approximate estimate—

Present value ...	RS.
Prospective do.	4,600
	not given.

190. *Aramanikkurichi*.—Situated on the Coleroon, distant from Tanjore 11 miles; area $124\frac{1}{2}$, of which $32\frac{1}{2}$ acres are planted with *Casuarina* and Babul; growth not good, and it will take some five or six years before felling can be commenced. There is a considerable area still to be planted.

191. Expenditure during the year was Rupees 266, and from the commencement 1,278 Rupees.

192. Receipts during the year have been Rupees 131, and from the commencement Rupees 176.

193. Approximate estimate—

Present value ...	RS.
Prospective do.	1,800
	not given.

194. *Karapakkum*.—On the Coleroon bank, 11 miles from Tanjore; area 236 acres, of which $29\frac{3}{4}$ acres have been cleared and planted with Babul, *Casuarina* and Kurkapilly. The growth is said to be fair; more than 200 acres remain to be planted.

195. Expenditure during the year has been Rs. 259, and from the commencement Rupees 897.

196. Receipts from the commencement *nil*, and during the year Rupees 25.

197. Approximate estimate—

Present value ...	RS.
Prospective do.	1,600
	not given.

198. *Teruvenganore*.—On the Coleroon bank, distant 13 miles from Combarum; area 117 acres, of which 14 acres were cleared and planted with Babul and Kurkapilly in 1875; growth is fair, but will take six years to mature; 103 acres remain to be planted.

199. Expenditure during the year has been Rupees 73, and from the commencement Rupees 575.

200. Receipts from the commencement *nil*, and during the year 130.

201. Approximate estimate—

Present value	Rs.
Prospective do.	800
	not given.

202. *Varappakurichi*.—On the Coleroon, distant 11 miles from Combaconum, 157½ acres, of which 95½ acres have been cleared and planted with Babul, Kurkapilly, and Casuarina.

203. The growth is not very good, and it will take six or seven years to mature; a considerable area remains to be planted.

204. Expenditure during the year has been Rupees 154, and from the commencement Rupees 972.

205. Receipts during the year have been Rupees 84, and from the commencement Rupees 93.

206. Approximate estimate—

Present value	Rs.
Prospective do.	26,000
	not given.

207. *Sattambadi*.—On the Coleroon, distant 8 miles from Combaconum; area 80 acres, of which 30½ acres have been planted with Babul, Kurkapilly and Casuarina. The growth is very good and will take five or six years to mature; about 50 acres remain to be planted.

208. Expenditure during the year has been Rs. 249, and from the commencement Rupees 951.

209. Receipts during the year have been Rupees 30, and up to the end Rs. 47.

210. Approximate estimate—

Present value	Rs.
Prospective do.	1,700
	not given.

211. *Vallakkurichi*.—on the Coleroon.—This plantation site has not been commenced as yet, no funds being available; it is a new one added to the list during the year under review.

212. Receipts during the year have been Rupees 67.

213. *Anagarempett*.—on the Coleroon.—This plantation site has been newly added to the list during the year, but planting has not commenced.

214. Expenditure, *nil*.

215. Receipts during the year have been Rupees 24.

216. *Adavathur*.—on the Coleroon.—This site was taken up for planting in 1875-76, but the land is now in dispute and planting has not commenced.

217. Expenditure during the year has been Rs. 52, and from the commencement Rupees 90, being cost of hired establishment.

218. Receipts during the year have been Rupees 6, and from the commencement Rupees 1,662.

219. All these plantations are along the banks of the Cauvery and Coleroon Rivers. The casualties have been few and the growth rapid, and they are a decided success. The trees are almost entirely Babul, but there is a mixture of *Inga dulcis*, *Albizia lebbek*, *Cassia Florida*, Nem, Catechu, Sissu, Casuarina and *Eugenia jambolana*. They have been inspected by the Conservator and a full report submitted (*vide* G.O., No. 1,605, dated 1st May 1877).

220. The gross expenditure on all the plantations (inclusive of supervision charges, &c.) during the year has been Rupees 10,563 and up to the end Rs. 45,492.

221. Receipts during the year have been Rupees 1,052, and from the commencement Rupees 5,801.

222. *Madura*.—The number of plantations in this division at the close of the year was three against four in the previous year, consequent on the abandonment of the Saththangudi plantation in October 1876 on account of the unsuitableness of the soil; the expenditure up to the date of its abandonment was Rupees 789. All are experimental plantations on a very small scale, viz., No. I, Vanathyparai—No. II, Kodikarnul, and No. III, Velamcombai.

223. *No. I, Vanathyparai*.—This plantation was opened out by Captain Walker in 1870, in the forest south of the Cumbum Valley near the foot of the bridge ghaut leading down from the Peryar project. It consists of 4,315 established Teak trees, extending over an area of ½ acres; the average girth and height of each tree is 9.3 inches and 13.4 feet respectively. The condition of the plantation was good at the beginning of the year, though it somewhat suffered from drought subsequently. No casualties occurred during the year.

224. Expenditure during the year was Rupees 34, and from the commencement Rupees 1,351. Receipts *nil*.

225. Approximate estimate—

Present value	Rs.
Prospective value quite uncertain, estimated by the Deputy Conservator at	947
	43,150

226. *No. II, Kodikarnul*.—*Eucalyptus* and *Acacia* plantation.—These were commenced in 1870-71 upon the Collector's report that if this department did not plant, the large shola at Kodikarnul was likely to disappear before the demand for firewood.

227. The *Eucalyptus* plantation is 9½ acres in extent and had about 5,254 trees at the commencement of the year, whilst at the close the number fell to 5,229; the difference is due to the number of trees thinned to avoid overcrowding. The trees in the latter numbered 4,196 and had no casualties. There was no extension during the year.

228. Expenditure up to the end of the year was Rupees 2,437, and during the year *nil*.

229. Receipts up to the end of 1876-77 were Rupees 15, mainly from sale proceeds of thinnings in the *Eucalyptus* plantations, and during the year *nil*.

230. Approximate estimate—

Present value	Rs.
Prospective do.	4,033
The value quite depends on the demand.	18,850

231. *No. III, Velamcombi or Pulni Teak Plantation*.—This was also opened by Captain Walker in 1870 as an experiment; it is situated at the foot of the northern face of the Pulni hills not far from the village of Pulni.

232. The established trees numbered 4,433 Teak against 4,470 in 1875-76; thirty-seven trees died from the excessive heat of the weather; it is without the belt of the south-west monsoon and not likely to produce Teak of any size, but the experiment is interesting.

233. Expenditure during the year was Rupees 33, and from the commencement Rupees 833.

234. Receipts *nil*.

235. Approximate estimate—

Present value	Rs.
Prospective value quite uncertain, but estimated by the Deputy Conservator at	2,148
	44,330

236. None of these Madura plantations were extended during the year, nor were the casualties replaced.

237. Gross expenditure (inclusive of the supervision charges, &c.,) of all the plantations in this division during the year has been Rs. 164, and from the commencement Rupees 5,574.

238. Receipts during the year nil, and from the commencement Rupees 15, mainly from No. II, Kodikarnal.

239. These plantations have been inspected by the Conservator during the year and a full report submitted—vide G.O., dated 17th August 1877, No. 2,526.

240. North Coimbatore.—There are two Sandalwood plantations in this division; a small site has been selected in a ravine below the Nilgiris for the growth of Mahogany, but the seed has not yet been procured.

241. Tallamally Sandalwood Plantation.—This was commenced in 1863-64 and has been annually increased up to 1875-76; it now comprises an area of 80 acres; the elevation is about 3,000 feet above the level of the sea. The growth is generally poor, and the trees want more shade than has hitherto been given to them; some of the trees, where there is shade, are 30 feet high with a girth of 15 inches, whilst others are in the open only five or six feet high. During the year 13 acres were ploughed for planting, 13,850 pits $1\frac{1}{2}$ feet square by $1\frac{1}{2}$ feet deep were dug 8 feet apart; owing to drought however no planting took place, 300 yards of fencing 6 feet high were repaired, pruning was carried out to a certain extent, and 12,260 square yards of the plantation were weeded.

242. It is not proposed to extend the planting of Sandal in this locality, but shade trees will be introduced on to the plantation when the seasons are favorable.

243. Expenditure during the year (inclusive of the proportionate share of the cost of the general establishment) Rs. 1,077, and from the commencement Rs. 12,350.

244. Receipts nil.

245. Approximate estimate—

Present value	} Not estimated.
Prospective do.	

246. Bylore Sandalwood Plantation was commenced in 1870, and is situated at the eastern base of the Balarangams some 28 miles south of Collegal; the elevation is about 3,200 feet above the level of the sea; the soil is much richer than at Tallam, and the climate moister; it now consists of 74 acres. The older trees are from 8 to 15 feet in height with a girth of from 8 to 11 inches, and quite cover the ground. In the four-year old portions the trees also cover the ground well, and their height is 7 or 8 feet and 5 to 9 inches in girth; the growth of all the trees is very healthy and promising.

247. One thousand five hundred and forty-two yards of fencing 6 feet high was constructed and 93 yards repaired, 4,000 square yards were cleared of brushwood, 9,000 square yards were weeded, and a fire-trace 330 yards long by 6 yards broad was out, and 2,000 trees pruned. The area which the trees may be said to have been fairly established is 74 acres which still requires pruning, weeding, &c. Number of trees planted during the year is 9,400, and that up to year is 68,000.

248. Expenditure during the year has been Rupees 3,181 (inclusive of supervision charges), and from the commencement Rupees 19,899.

249. Receipts nil.

250. Approximate estimate—

	RS.
Present value	28,940
Prospective value	3,40,000

251. Mr. Morgan says that there will be work for four years more in the old and new plantations at a cost of Rupees 2,400 a year for weeding, fencing, watering, clearing brushwood, replacing casualties, &c. This amount, viz., Rupees 9,600, for four years at Rupees 2,400 a year, added to the expenditure up to the end of the past year, makes a total of Rupees 28,940; after the fourth year there will be no necessity for employing coolies as the trees will be permanently established.

252. As regards the prospective value it has been reckoned that each tree will have cost 4 Annas at the end of 25 years, and that it may then be expected to return a maund of heartwood worth 5 Rupees.

253. Mettapolliem Experimental Mahogany Plantation is situated in the valley of the Sirroo Bhowany; 6 acres were cleared and ploughed in 1874, about four or five nursery beds were formed in which Vagay (to act as nurses to the young Mahogany plants) and several thousand Sandalwood and other kinds of seed were sown. All the young plants died, having been destroyed by bison. Operations were stopped, owing to the Mahogany seed not having yet been procured.

254. Expenditure in 1874-75 Rupees 177 only.

255. Receipts nil.

256. The whole of the plantations in this division have been inspected by the Conservator and a full report submitted—Vide G. O., No. 298, dated 23rd January 1877.

257. SOUTH COIMBATORE.—There are three very small experimental Teak plantations on the Anamallays with an area of 17 planted acres; during the year cutting and clearing the dense grass and brushwood and pruning have been carried out. Mr. Douglas reports that the growth was most irregular, but there is improvement during the past year or two; it appears much slower on the Anamallays than at Nelambur both as regards natural and artificial Teak trees. Every effort has been made to keep down the expenditure which is confined to up-keep only.

258. Expenditure during the year (inclusive of supervision charges) was Rupees 193, and from the commencement Rupees 3,952.

259. Receipts nil.

260. Approximate estimate—

Present value, the value of these plantations in their present stage, must be considered prospective.	RS.
Prospective value	17,000

261. These plantations have been inspected by the Conservator and a full report has been submitted—vide G.O., dated 4th December 1876, No. 1,893.

262. NILGIRIS—Mudumallai Range.—There are two teakwood plantations in this division, viz., Mudumallai and Benni, with a planted area of 101 acres; the former was planted in 1868-69 and 1869-70; the growth is not at all promising; the larger trees are from 13 to 20 inches in circumference and 35 to 40 feet in height; the latter is situated some 8 or 9 miles to the north-west of Mudumallai, and is well within the influence of the south-west monsoon; it was commenced in 1871-72, and every year some additions have been made up to 1875-76; the growth is much better than at Mudumallai, but many trees have a stunted appearance.

263. The work done during the year in both of these plantations was thinning, pruning, and fire-tracing. There was no extension made in either of the plantations during the past year, nor is extension contemplated.

264. The total expenditure on the two plantations during the year (including the proportionate share of the cost of the general establishment) was Rupees 2,162 and up to the end of the year Rupees 24,911.

265. Receipts nil.

266. Approximate estimate—

Present value Not given.
 Prospective value. The Deputy Conservator states that until the plantations are some years older, he will not be able to make any accurate estimate of their future yield.

267. *Segur*.—There is a small sandalwood plantation in this range known as the Sembrageddi; it is situated a little to the E.N.E. of Goodalore at the foot of a rocky bridle-path leading down from General Morgan's Cinchona and Tea Estates near the Pykara falls on the Nilgiris; it is a little over 3,000 feet above the level of the sea. Area 23 planted acres, commenced in 1871-72; there are now about 21,000 trees; 3,000 casualties were replaced during the year. The growth of the trees is very rapid and appears healthy; the only doubt is that the moisture may be too great and the soil too rich for the formation of heartwood. During the year weeding, pruning, and clearing jungle, cutting creepers, &c., were carried out; the height of the trees on an average is between 12 to 15 feet; the tree is expected to mature itself in about 25 years, and the cost per acre at maturity, including the pay of the permanent establishments, interest on outlay, &c., is estimated at Rupees 600, and the expected yield per acre is at least 150 maunds of heartwood.

268. The expenditure during the year (inclusive of supervision charges) is Rupees 1,503 and from the commencement Rupees 8,880.

269. Receipts nil.

270. Approximate estimate—

Present value
 Prospective value } *Vide* remarks given in the Mudumalai Range.

271. These plantations were inspected by the Conservator during the year and a full report submitted—*Vide* G.O., No. 1,301, dated 20th September 1876.

272. OOTACAMUND AND COONOR.—There are twenty-two plantations on the Nilgiri plateau with a planted area of 1,067 acres consisting entirely of Australian trees of different kinds; the growth is very splendid, but unless a railroad is made up to the plateau of the Nilgiris a sufficient demand for the produce of these plantations cannot be expected. These plantations were all inspected during the year by the Conservator and a full report submitted—*Vide* G.O., 23rd November 1876, No. 1,763.

273. Expenditure during the year (inclusive of supervision and other charges) has been Rupees 3,362 and from the commencement (including all charges, &c., while under Jungle Conservancy and Public Works Department) Rupees 74,778.

274. The receipts during the year have been Rupees 7,699 and from the commencement Rupees 51,818 from all sources. In the above figures a portion of the receipts and charges of the sholas are included, which were lumped together when these plantations were under Jungle Conservancy, and it is impossible now to separate them as stated in my letter to Government, No. 492, dated 7th August 1877, paragraph 2.

275. Approximate estimate—

Present value
 Prospective value } Major Jago promises to furnish this information in his next report; a calculation is however very difficult; every thing depends on what the demand may be.

276. SALEM.—There is one sandalwood plantation in this division known as the Kanavenagasamudram on the Mailgherry Hills near Denkincothah, with 6,017 trees extending over an area of 5 acres; elevation about 3,000 feet. Shade is required, and extension is not contemplated. This plantation was inspected and a full report submitted—*Vide* G.O., dated 21st March 1877, No. 1,172.

277. Expenditure during the year (inclusive of supervision charges) Rupees 500 and from the commencement Rupees 1,678.

278. Receipts nil.

279. Approximate estimate—

Present value
 Prospective value } Not received.
 45,000

280. SOUTH CANARA.—In this division there is a teakwood plantation known as the Parrapa teak plantation in the Cassergode Talug. Owing to a doubt as to the Government right to this plantation, as well as to all the forests of this division, operations were entirely suspended during the year. Before operations were suspended some 15 acres were cleared for planting last monsoon, but the expenditure was restricted to a minimum.

281. This plantation was not visited by the Conservator during the past year.

282. Expenditure in the year (inclusive of supervision charges) was Rupees 1,380 and from the commencement Rupees 11,131.

283. Receipts nil.

284. Approximate estimate—

Present value
 Prospective value } Not received.

285. MALABAR—*Nelambur*.—There are two tracts of teak plantations in this range, viz., *Nelambur* and *Amarapoliem*, with an estimated area of 3,603 acres, of which 3,368 are planted.

286. The plantations are looking very healthy and promising; the trees in the 1845-46 plantations are over 5 feet in girth and a little over 100 feet high.

287. Mr. Ferguson states that area of the *Amarapoliem* plantation is about 441 acres and not 331, and that the area planted up to last year was 297 and not 264 as shown in the previous returns before being properly surveyed.

288. Mr. Athol MacGregor, late Collector of Malabar, has published an interesting memorandum on the history and condition of these plantations illustrated with maps.

289. Expenditure during the year (inclusive of supervision charges) Rupees 15,030 and from the commencement Rupees 3,22,801.

290. Receipts during the year have been Rupees 13,162 and from the commencement Rupees 1,24,776.

291. Approximate estimate—

Present value
 Prospective value } Not given.
 204,000

292. These plantations were inspected by the Conservator during the year and a report submitted—*Vide* G.O., dated 20th September 1876, No. 1,300.

FIREWOOD RESERVES.

293. CUDDAPOH.—There are seven in number, viz., *Balapully* No. I, *Balapully* No. II, *Vacatu* *Konah* No. III, *Sullagoonta* *Chamoo* and *Codoor* *Hills* No. IV, *Thunacandah* No. V, *Yerragoontahcotta* No. VI, and *Guthala* *Nookunapilly* No. VII; these are partly in the plains and partly on the hill slopes, and all are situated along the north-west line of the Railway between *Tripetty* and *Nandalore*, and have been fenced in.

294. *Balapully* No. I.—This reserve lies close to the Railway line on the west side, eleven miles from *Codoor*; the estimated area is 2,000 acres; taken up and fenced round in 1867. The failure of both the monsoons has prevented broadcast sowing, and the cause of the casualties is attributable to extreme drought. This reserve has

trees from 1,000 to 500 per acre, which consist of *Pterocarpus Santalinus*, *Conocarpus latifolia*, *Chloroxylon Swietenia*, *Terminalia glabra*, *Acacia Arabica*, *Albizia lebbek*, *amara*, *Diospyros sp.*, *Strychnos nux vomica*, *Emblia officinalis*, *Eugenia jambolana*, *Terminalia tomentosa* and *belerica*, *Hardwickia binata*, *Vatica thumbugala*, *Pongamia glabra*, *Vitez arborea*, other fuel yielding trees; some trees worthless even as the bamboos, and shrubs.

295. The fencing of this reserve is said to have suffered considerably owing to the ryots having been allowed to graze their cattle in it, but the privilege was annulled by order of the present Collector.

296. Expenditure during the year has been Rupees 223 and from the commencement Rupees 5,137 (of which Rupees 3,642 cost of fencing).

297. Receipts nil.

298. Approximate estimate—

Present value	RS.
(a very low estimate, i.e., only about 6 Rupees per acre.)	12,454
Prospective value	30,374

299. *Balapully No. II.*—The estimated area is 1,730 acres, and it lies to the east of the Railway line facing Balapully No. I, from which it is separated by the line of Railway; it is about 11 miles from the Codoor Railway Station; taken up and fenced round in 1871. For further particulars, *vide* Reserve No. I.

300. Expenditure during the year was Rupees 292 and from the commencement Rupees 5,023 (which includes 692 Rupees purchase of land and Rupees 3,922 cost of fencing).

301. Receipts nil.

302. Approximate estimate—

Present value	RS.
Prospective value	10,774
	26,275

303. *Sullagoonta Chanoo and Codoor Hills No. III.*—These two tracts lie about 7 miles to the east of the Codoor Railway Station with an estimated area of 2,000 and 3,000 acres, respectively; taken up and fenced round partly in 1871 and partly in 1874. For further particulars, *vide* Reserves Nos. I and II.

304. During the year under report the Codoor Hill Reserve was incorporated with that of Sullagoonta Chanoo.

305. Expenditure during the year was Rupees 1,626 and up to the end of year Rupees 4,381 (which includes Rupees 2,979 cost of fencing).

Receipts nil.

306. Approximate estimate—

Present value	RS.
Prospective value	21,787
	53,147

307. *Yerragoontahcottah No. IV.*—It lies about 5 miles to the west of the Codoor Railway Station with an estimated area of 3,000 acres; taken up in 1873; three-fourths hill and one-fourth plain, all fenced; the jungle on the hill portion is good, but that in the plains very indifferent and require rest; damage is apparent everywhere from cattle and goats. For further remarks, *vide* Reserves Nos. I and II.

308. Expenditure during the year was Rupees 218 and from the commencement Rupees 2,897 (Rupees 2,264 cost of fencing).

Receipts nil.

309. Approximate estimate—

Present value	RS.
Prospective value	18,667
	45,547

310. *Thunakondah No. V* is situated about 2 miles to the west of the Codoor Railway Station with an estimated area of 600 acres; taken up in 1874; all hill and all fenced; trees from 800 to 1,000 per acre, chiefly *Conocarpus latifolia*, *Pterocarpus Santalinus*, *Hardwickia binata*, *Strychnos nux vomica*, *Samarindus Indica*, *Albizia amara*, *Emblia officinalis*; the fencing has been destroyed by the ryots, &c., while the privilege of grazing their cattle was allowed.

311. Expenditure during the year has been Rupees 91 and from the commencement Rupees 1,396 (Rupees 1,165 cost of fencing).

Receipts nil.

312. Approximate estimate—

Present value	RS.
Prospective value	3,733
	9,109

313. *Vucatu Konah No. VI.*—It lies about 7 miles in a southerly direction from the Codoor Railway Station; estimated area 3,000 acres; taken up in November 1874; fenced all around. For further particulars, *vide* Reserves Nos. I, II, III, and IV.

314. Expenditure during the year has been Rupees 225 and from the commencement Rupees 3,026 (Rupees 2,539 cost of fencing).

315. Receipts nil.

316. Approximate estimate—

Present value	RS.
Prospective value	18,667
	45,547

317. *Gathala Nookunapilly No. VII.*—This reserve lies about 8 miles to the south-west of the Reddipully Railway Station; area 3,000 acres; taken up in 1874; nearly all hill and all fenced. For further particulars, *vide* Reserves Nos. I, II, and III.

318. Expenditure during the year has been Rupees 296 and from the commencement Rupees 6,131 (Rupees 5,751 cost of fencing).

Receipts nil.

319. Approximate estimate—

Present value	RS.
Prospective value	18,667
	45,547

320. The total area of the reserves in this division is estimated at 16,830 acres; some of them are being demarcated by the Revenue Survey Department and the others will all shortly be demarcated.

321. Gross expenditure during the year of all the reserves in this division has been Rupees 3,895 (inclusive of supervision charges) and from the commencement Rupees 28,915.

Receipts nil.

322. These reserves have been inspected by the Conservator and a report submitted—*vide* G.O., No. 1,974, dated 13th June 1877.

323. Though the receipts are at present nil, the fuel revenue from the jungles of which they are a part has been about two lakhs of rupees since 1870; it is better to conserve the reserves for a few years longer and to continue felling in the open tracts; it is a great pity that it should ever be in the power of the Revenue Department to issue orders about grazing than can result in such immense damage both to the trees and the fencing. The present Collector is fully alive to the importance of strict management, but changes in the administration may any day occur, and the question calls for strict orders from the Board or Government.

324. *North Arcot.*—There are two reserves in this division known as Amboor and Mamandoor with an estimated area of 6,400 acres.

325. *A. Andhar Reserve*.—Surveyed and demarcated, consisting of along other jungle trees; area 3,840 acres; taken up in 1871. Pending the settlement of the rights of the people to grazing, &c., nothing has been done in this reserve, which is not at present under Imperial Conservancy, although it has been twice handed over to the department.

326. Expenditure during the year nil and from the commencement Rupees 1 (of which Rupees 223 for survey and demarcation).

Receipts nil.

327. Approximate estimate not given.

328. *B. Mamandoor Reserve*.—Situated close to the Railway from the 92½ miles on the North-West Line, 8 miles north of Tripatty Station; area 2,000 acres; taken up and closed in 1871; surveyed and demarcated, consisting of yellow redwood, and jungle trees. The growth is reported to be very fair, and Mr. Shetty estimates that it will give 15 tons per acre in one or two years; fire-traced and divided into nine blocks by roads 20 feet wide; during the year the fencing has been destroyed by cattle.

329. Expenditure during the year has been Rupees 304 and from the commencement Rupees 4,871 (of which Rupees 2,142 for fencing).

Receipts nil.

330. Approximate estimate—

Present value	Rs.
Prospective value	40,000
	50,000

331. This reserve was inspected by the Conservator and a full report is now before the Board and Government.

332. Total expenditure of the reserves in this division during the year, including supervision charges, has been Rupees 497 and from the commencement Rs. 6,410.

Receipts nil.

333. *SOUTH ARCOT*.—There are eleven reserves in this division with an estimated area of 65,440 acres; they are as follows:—

334. *Mutacadoo*.—Area 2,500 acres; unsurveyed, roughly demarcated, and partly fenced; felling for supply has been stopped since 1868. Contents, mixed fire-wood trees three-fifths stocked, 30 tons to the acre, over half foot thickness, besides saplings; cattle are allowed in certain portions, but goats are excluded.

335. Artificially planted trees at the close of the year were 36,142; the principal work done during the year was planting seedlings, collecting seeds, clearing creepers, &c.

336. Expenditure during the year was Rupees 829 and from the commencement Rupees 3,933.

337. Receipts during the year have been Rupees 214 and from the commencement Rupees 967 from all sources.

338. Approximate estimate—

Present value	Rs.
Prospective value	1,16,340

339. *Sivooody*.—Area 710 acres; taken up in 1872-73 for Railway and general supply, consisting of mixed trees; two-thirds of the whole area generally open during four months of every year for cattle grazing, but goats are excluded. Felling for supply stopped since 1872; during the year under review cattle have grazed all the year round, and sometimes goats also.

340. At the close of the year there were 16,075 supplementally planted trees; the number of casualties during the year was 680; principal work done during the year has been Rupees 319 (chiefly for improvement) and from the commencement Rupees 1,821.

341. Receipts Rupees 15 and from the commencement Rupees 17 from all sources.

342. Approximate estimate—

	Rs.
Present value	26,280
Prospective value	

343. *Cotamungalum*.—Taken up for Railway and general supply; area 2,000 acres, containing mixed trees; two-thirds of the whole area open to cattle grazing, but goats generally excluded; felling stopped since 1868; the boundary has not been demarcated thoroughly, and goats have been admitted into portions this year.

344. At the close of the year there were 6,006 supplementally planted trees; during the year 910 casualties occurred, and the principal work done was cutting patrol paths, collecting seeds, clearing creepers and weeds, and sowing seeds.

345. Expenditure during the year was Rupees 203 (chiefly for improvement) and from the commencement Rupees 1,160.

346. Receipts during the year have been Rupees 136 and from the commencement Rupees 390 from all sources.

347. Approximate estimate—

Present value Rupees 92,580 for 18,516 tons for the present; the probable annual yield will be 620 tons.

348. *Padipallum*.—This was taken up in 1868 for Railway fuel; area 2,500 acres, consisting of mixed trees; two-thirds of the whole area open to cattle grazing, but not for goats; felling for general supply stopped in 1868. Owing to the scarcity of pasture cattle have this year been allowed over all the reserve. It is reported that at the close of the year there were 9,147 supplementally planted trees, and 1,350 casualties occurred.

349. The work done during the year was clearing creepers and weeds, collecting seeds, and cutting patrol paths.

350. Expenditure during the year has been Rupees 258 (mainly for improvement) and from the commencement Rupees 1,594.

351. Receipts in the year Rupees 123 and up to the end Rupees 1,671 from all sources.

352. Approximate estimate—

	Rs.
Present value	1,25,880
Prospective value	

353. *Periamoor*.—Area 8,840 acres; taken up for Railway fuel and general supply; two-thirds of the whole area open to cattle grazing, but not to goats. It was all, however, thrown open to cattle in the year under review excepting young fields of supplemental planting. At the close of the year there were 15,844 supplementally planted trees; the number of casualties was 1,170; cutting patrol paths, creepers and weeds, collecting and sowing seeds were performed during the year.

354. Expenditure during the year has been Rupees 315 (chiefly for improvement) and from the commencement Rupees 1,935.

355. Receipts during the year have been Rupees 176 and from the commencement Rupees 276 from all sources.

356. Approximate estimate—

	Rs.
Present value	4,69,380
Prospective value	

357. *Gungaveram*.—Area 8,000 acres; taken up for Railway fuel; demarcated in 1875-76; one-third of the whole area open to cattle grazing, but goats strictly excluded.

358. The expenditure in the year was only for the pay of watchmen entertained for protection, conservancy, and improvement of natural forests. This reserve was formerly described as situated in three taluqs; the major part of the Trinomallai portion has been transferred to the taluq of Villapuram, and now almost all of it lies within Villapuram Taluq.

359. Expenditure during the year has been Rupees 131 and from the commencement Rupees 314. Receipts during the year were only Rupees 22 and up to the end of the year Rupees 22.

360. Approximate estimate—

Present value	Rs.
...	3,93,000

361. Mr. Wooldridge estimates that there are 78,600 tons now on the land, and values the wood at 5 Rupees per ton.

362. *Muthenai*.—Area 4,000 acres; mixed timber and firewood reserve for general supply; the principal trees are satin, karungali, thuringee perambai, neemai, and maruthai, &c. At the close of the year there were 2,808 supplementally planted trees. During the year 9,326 yards of patrol paths were cut 8 feet wide for Rupees 37-11-0, or at Rupees 7-3-0 per mile; 70 measures of tree seeds were collected without any extra cost.

363. Mr. Wooldridge states that by the 7 acres felled last year the present average yield of this reserve was found to be a little over 13 tons.

364. Expenditure during the year has been Rupees 469 (mainly for improvement) and from the commencement Rupees 1,680.

365. Receipts during the year have been Rupees 5 and from the commencement Rupees 41.

366. Approximate estimate—

Present value	Rs.
(at 5 Rupees per ton 40,116 tons of living wood.)	2,00,580

367. *Chinnasamoodram*.—Mixed timber and firewood for general supply; area 6,400 acres; two-thirds of the whole area open to cattle grazing; the principal trees are karungali, satin, thuringee perambai, neemai, and maruthai.

368. There were 10,243 supplementally planted trees at the close of the year; only 20 casualties occurred; 8,322 yards of patrol paths 8 feet wide were cut at an average cost of Rupees 5-7-7 per mile.

369. Expenditure during the year has been Rupees 342 (improvement) and from the commencement Rupees 2,524.

370. Receipts in the year were Rs. 47 and from the commencement Rupees 991.

371. Approximate estimate—

Present value	Rs.
(at 5 Rupees per ton for 62,322, the estimated present quantity of living wood in the land.)	3,11,610

372. *Peringolathone*.—Area in acres 4,800; mixed timber and firewood for general supply; principal trees are satin, karungali, neem, &c. Cattle were allowed to graze in this reserve, but goats were strictly prohibited. It is reported that the area is, however, uncertain, for no survey has yet taken place; there is no market for the wood nearer than Trikalur, 26 miles from this reserve, and no road exists.

373. Expenditure during the year has been Rupees 54 (for improvement) and from the commencement Rupees 213.

Receipts nil.

374. Approximate estimate—

	Rs.
Present value	2,70,000
Prospective value...	...

375. *Cusba Reserve*.—Area 2,350 acres, consisting of timber and firewood for general supply; 655 acres were closed to grazing in the Trinomallai section, and goats have been excluded therefrom. Owing to the severe drought a large number of casualties occurred.

376. During the year under review 240 sandalwood trees were cleared of creepers. On account of the carelessness of the watcher (for which he was removed and fined) cattle and cowherds, &c., penetrated into the sandalwood tract and did much damage to the trees.

377. Expenditure during the year has been Rupees 166 (mainly for improvement) and from the commencement Rupees 1,072.

378. Receipts during the year nil and from the commencement Rupees 5.

379. Approximate estimate—

	Rs.
Present value	81,000
Prospective value	...

380. *Thenmalai Forests*.—Estimated area 23,000 acres; the principal trees are sandalwood and teak; 314 timber trees were felled, and all have been worked up into 1,076 logs, yielding 2,245 cubic feet; 247 sandalwood trees were felled, which yielded 372 maunds of heartwood; 272 maunds of gallnuts were collected, and also 8 lbs. of bees' wax and 24 lbs. of honey.

381. The formation of this forest into a reserve was sanctioned in 1868 (*vide* G.O.s., dated 28th February 1868, No. 482, and 9th October 1868, No. 2,603, respectively), but in 1874 it was transferred from Salem to South Arcot by G.O., dated 12th October 1874, No. 1,346. The information required by the Board of Revenue in their Proceedings, dated 13th February 1877, No. 604, paragraph 3, will be submitted in detail in the Conservator's inspection report on this division, which will shortly be visited.

382. Expenditure during the year has been Rupees 63 (cost of improvement) and from the commencement Rupees 175.

383. Receipts during the year Rupees 3,884 and up to the end of the year Rupees 4,914.

384. Approximate estimate—

	Rs.
Present value	23,62,500
Prospective value	...

385. The gross expenditure of the whole of these reserves (inclusive of supervision charges) has been Rupees 5,260 and from the commencement Rupees 18,532.

386. Receipts during the year have been Rupees 4,621 and from the commencement Rupees 6,898.

387. *TRICHINOPOLY*.—There are six reserves in this division (out of which four are reserve proper) with an estimated area of 3,877 acres. All of these are intended for Railway fuel supply, and consist of indigenous jungle of fuel-yielding trees.

388. *Lalapettai*.—Area 106 acres, on the Cavery bank; a close reserve, unsurveyed and not demarcated; the principal tree is *Acacia Arabica* supplemented with planted casuarina, &c. The growth is good.

389. Expenditure during the year has been Rupees 508 and from the commencement Rupees 4,620.

390. Receipts during the year have been Rupees 263 and from the commencement Rupees 1,968.

423. Expenditure during the year has been Rupees 260 and from the commencement Rupees 710.

Receipts nil.

424. Approximate estimate—

Present value	RS.
Prospective value	3,840
	11,520

425. No. III Iyalore Reserve—A. Sundamallai.—This covers an estimated area of about 2,240 acres; it is neither fenced nor surveyed, and is three miles east of Iyalur and fifteen miles from the Dindigul Railway Station; taken up in November 1875; contains chiefly *Umbrella acacia* mixed with nim and other trees.

426. Expenditure during the year has been Rupees 35 and up to commencement of year nil.

427. Receipts nil.

428. Approximate estimate—

Present value	RS.
Prospective value	3,360
	10,080

429. No. III-B, Thannikaradu.—Neither surveyed nor fenced; area about 1,920 acres; three miles east of Iyalur and four miles from the Railway line; all hilly; taken up in 1875; good jungle, chiefly containing oosul (*Umbrella acacia*).

430. Expenditure during the year has been Rupees 34, and up to commencement nil.

431. Receipts—nil.

432. Approximate estimate—

Present value	RS.
Prospective value	2,580
	7,740

433. Thanikal or Karundamallai Reserve.—Area about 3,200 acres; unsurveyed; not fenced; principal trees are oosul (*Umbrella acacia*); all hilly; thirteen to fourteen miles from the Dindigul Railway Station; selected by Captain Walker in 1869-70.

434. Expenditure and receipts—nil.

435. Approximate estimate—

Present value	RS.
Prospective value	2,580
	7,740

436. One hundred and five Tank-beds.—The estimated area is about 4,000 acres, all in the Terumungalum Taluq; they were handed over by the Revenue Department at the end of 1871 for the growth of railway fuel; the chief trees are babool and velvalum. It is reported there were 46,204 trees on the 31st March 1877, 6,152 trees of more than one foot in diameter, 7,161 trees one foot in diameter, 11,426 between six and twelve inches in diameter, and 21,465 trees six inches and below in diameter.

437. By an oversight the Deputy Conservator stated in his report for 1875-76 that there were 55 tank-beds instead of 105. Experimental felling was carried on in 5 of the tank-beds with good results. 200 acres are said to have been felled experimentally; the yield in tons green was 376, but in the administration report the Deputy Conservator exhibits 277 tons. Mr. Brougham has been directed to explain the cause of this discrepancy.

438. The revenue realized was as follows:—

- 1,665. from engine fuel supplied to the South Indian Railway.
- 428. from the sale of rejected wood.
- 225. from the sale of the contract of Karuvalum fruits.

439. Expenditure during the year has been Rupees 1,199, and previously nil.

440. Receipts during the year Rupees 2,318, and previously nil.

441. Approximate estimate—

Present value	RS.
Prospective value	3,000
	9,000

442. The gross expenditure in all the reserves during the year has been Rupees 3,342 (inclusive of the supervision charges), and from the commencement Rupees 3,792.

443. Receipts in the year were Rupees 2,318, and up to commencement nil.

444. The above reserves were inspected by the Conservator and a full report submitted (*vide* G. O., No. 2,526, dated 17th August 1877).

445. TINNEVELLY.—There are 34 reserves in this division, of which a number of tank-beds were taken up for conservancy in 1871, all of which are situated near the line of railway. The total estimated area of these reserves is 5,526 acres against 5,527 acres of last report. The principal trees are *Acacia arabica*, and *Planifrons* (or *Umbrella acacia*), *Prosopis spicigera*, all first-class fuel-yielding trees.

446. Kaliavoor.—Area 322 acres; rainfed; it contains 5,528 ripe trees from 18 inches in circumference and 7,015 medium-sized trees under 18 and over 6 inches, and a fair number of seedlings; soil black cotton; taken up in August 1872. The surviving seedlings are said to be doing well, and 82 acres were dibbled with babool, but the results are bad.

447. Expenditure during the year has been Rupees 50, and from the commencement Rupees 1,475.

448. Receipts in the year were Rupees 71, and from the commencement Rs. 278 from all sources.

449. Approximate estimate—

Present value	RS.
Prospective value	1,179
	1,925

450. Kalankarai.—Estimated area 187 acres; said to contain 6,480 ripe and 3,583 medium-sized trees; soil sand; the chief trees are *Acacia Arabica* and *Prosopis spicigera*; taken up as a reserve in August 1872; 29½ bandy-loads or 13 tons of dead wood were sold for Rupees 47-7-0.

451. Expenditure during the year has been Rupees 49, and from the commencement Rupees 873.

452. Receipts in the year were Rupees 179, and from the commencement Rs. 426 from all sources.

453. Approximate estimate—

Present value	RS.
Prospective value	1,908

454. Rajankolum.—Area 153 acres; channel-fed; contains 4,252 ripe and 10,685 medium-sized trees and fair number of seedlings; soil black, principal trees *Acacia Arabica*; taken up as a reserve in August 1872; the surviving seedlings are doing well; 17½ acres were dibbled with babool seed; a small portion of it germinated and died away from drought.

455. Expenditure during the year has been Rupees 37, and from the commencement Rupees 408.

456. Receipts during the year were Rupees 107, and from the commencement Rupees 144.

457. Approximate estimate—

Present value	RS.
Prospective value	768
	2,548

458. *Muthurkolum*.—Area 241 acres; channel-fed; contains 1,004 ripe and 545 medium-sized trees, and a good number of seedlings, chiefly *Acacia Arabica*; taken up as a reserve in August 1872; the surviving seedlings of past years are said to be doing well; 3,667 ripe and medium-sized trees have been felled, which yielded 133½ tons of wood, and the amount realized was Rupees 600.

459. Expenditure during the year has been Rupees 47, and from the commencement Rupees 733.

460. Receipts in the year were Rupees 622, and up to the end Rupees 645 from all sources.

461. Approximate estimate—

Present value	RS.
Prospective value	40
	129

462. *Kuthuculcolum*.—Estimated area 133 acres; soil poor; rain-fed; contains 100 ripe and 274 medium-sized trees and no saplings, chiefly *Acacia Arabica*; taken up as a reserve in August 1872. The result of the past year's sowings are reported to be bad owing to drought.

463. Expenditure during the year has been Rupees 16, and from the commencement Rupees 335.

464. Receipts in the year Rupees 5, and from the commencement Rupees 9.

465. Approximate estimate—

Present value	RS.
Prospective value	60

466. It is stated that the expenditure cannot be recouped owing to the poor soil.

467. *Naraginaroo*.—Area 106 acres; rain-fed; contains 1,705 ripe and 312 medium-sized trees and no seedlings; soil chiefly black cotton, a portion indifferent; taken up and added as a reserve in December 1873. Twenty-eight acres were dibbled with seed and which did not germinate; the surviving seedlings of past years are doing well.

468. Expenditure during the year has been Rupees 21, and from the commencement Rupees 217.

469. Receipts in the year were Rupees 119, and from the commencement Rupees 367.

470. Approximate estimate—

Present value	RS.
Prospective value	3,348

471. *Manurkolam*.—Area 113 acres; channel-fed; taken up as a reserve in 1873; contains 2,045 ripe and 1,055 medium-sized trees and a moderate number of seedlings; soil half black and half indifferent; chief trees *Acacia Arabica*.

472. One hundred and five acres were dibbled with babool seed, a large number of which germinated and died off from drought after attaining an height of 3 inches.

473. Expenditure during the year has been Rupees 195 and from the commencement Rupees 848.

474. Receipts during the year have been Rupees 23, and from the commencement Rupees 113.

475. Approximate estimate—

Present value	RS.
Prospective value	71
	250

476. It is said that the expenditure will probably not be recouped.

477. *Rustakolum*.—Area 20 acres; rain-fed; soil chiefly black and indifferent; contains 533 ripe and 230 medium-sized trees; taken up and added as a reserve in August 1873; the sowings of past year have failed for want of rain.

478. Expenditure during the year has been Rupees 3, and from the commencement Rupees 63.

479. Receipts during the year were Rupees 2, and up to the end of the year Rupees 8.

480. Approximate estimate—

Present value	RS.
Prospective value	80

481. *Ramasawmipooram*.—Area 18 acres; rain-fed; contains 150 ripe and 210 medium-sized trees; the principal trees are *Acacia Arabica*; taken up and added as a reserve in September 1873; on account of the unfavorable weather past year's sowings have failed.

482. Expenditure during the year has been Rupees 3, and from the commencement Rupees 54.

483. Receipts during the year have been Rupees 2, and from the commencement Rupees 5.

484. Approximate estimate—

Present value	RS.
Prospective value	19
	53

485. *Sirucolum*.—Area 5 acres; rain-fed; contains 29 ripe and 87 medium-sized trees; principal tree *Acacia Arabica*; taken up and added as a reserve in September 1873. Past year's sowings have failed for want of rain.

486. Expenditure during the year nil, and from the commencement Rupees 13. Receipts—nil.

487. Approximate estimate—

Present value	RS.
Prospective value	3
	10

488. *Kalakudykolum*.—Area 127 acres; soil chiefly black cotton; channel-fed; contains 830 ripe and 692 medium-sized trees; taken up and added as a reserve in September 1873.

489. Expenditure during the year has been Rupees 18 and from the commencement Rupees 133.

490. Receipts during the year have been Rupees 18 and from the commencement Rupees 48.

491. Approximate estimate—

Present value	RS.
Prospective value	104
	178

492. *Pathukolum*.—Area 100 acres; channel-fed; soil indifferent; it contains 798 ripe and 560 medium-sized trees of *Acacia Arabica*; taken up in September 1873.

493. Expenditure during the year has been Rupees 13, and from the commencement Rupees 100.

494. Receipts in the year nil and from the commencement Rupees 10.

495. Approximate estimate—

Present value	RS.
Prospective value	140
	160

496. *Seedakurachykolum*.—Area 53 acres; soil indifferent; channel-fed; contains 180 ripe and 60 medium-sized trees; the principal trees are *Acacia Arabica*; taken up and added as a reserve in September 1873. It is reported that the past year's sowings are doing fairly.

497. Expenditure during the year has been Rupees 6, and up to the end of the year Rupees 70.

498. Receipts from the commencement of the year have been Rupees 2 and during the year Rupees 3.

499. Approximate estimate—

Present value	Rs. 27
Prospective value	...

500. *Agilandapuram*.—Area 18 acres; soil chiefly black cotton, a portion is indifferent; contains 328 ripe and 1,003 medium-sized trees and a fair number of seedlings; the principal trees are *Acacia Arabica*; taken up and added as a reserve in August 1872. The seedlings are said to be doing well.

501. Expenditure during the year has been Rupees 20, and from the commencement Rupees 476.

502. Receipts during the year Rupees 12, and from the commencement Rs. 34.

503. Approximate estimate—

Present value	Rs. 34
Prospective value	Rs. 329

504. *Kuttycolum*.—Area 18 acres; rain-fed; soil chiefly black cotton; contains 328 ripe and 1,003 medium-sized trees and a fair number of seedlings. The principal trees are *Acacia Arabica*, taken up as a reserve in August 1872. Past year's seedlings are doing well; 63 head of cattle were impounded.

505. Expenditure during the year has been Rupees 4, and from the commencement Rupees 22.

506. Receipts during the year have been Rupees 8, and up to end of 1875-76 Rupees 22.

507. Approximate estimate—

Present value	Rs. 31
Prospective value	Rs. 233

508. *Parachykolum*.—Area 105 acres; rain-fed; soil black cotton and indifferent; contains 612 ripe and 315 medium-sized trees of babool and a large number of white thorn seedlings; taken up and added as a reserve in August 1872. Eighteen acres were dibbled with babool seed, which has not yet germinated owing to drought.

509. Expenditure during the year has been Rupees 24, and from the commencement Rupees 322.

510. Receipts during the year Rupees 22, and from the commencement Rs. 58.

511. Approximate estimate—

Present value	Rs. 81
Prospective value	...

512. *Sungalamudyarkolum*.—Area 45 acres; rain-fed; soil chiefly black cotton and indifferent; contains 623 ripe and 1,935 medium-sized trees and a fair number of seedlings; chief trees *Acacia Arabica*; taken up in August 1872. It is reported that the surviving seedlings of last year are progressing favorably. Seventeen acres were dibbled with babool seed, which proved a failure owing to drought.

513. Expenditure during the year was Rupees 10, and from the commencement Rupees 207.

514. Receipts during the year Rupees 14; and from the commencement Rs. 39.

515. Approximate estimate—

Present value	Rs. 59
Prospective value	Rs. 450

516. *Karisalkolum*.—Area 148 acres; soil chiefly black cotton; contains 1,906 ripe and 4,621 medium-sized trees, principal trees *Acacia Arabica*; taken up in August 1872; it is stated that the surviving seedlings of the past years' sowings are doing well.

517. Expenditure during the year was Rupees 25, and from the commencement Rupees 493.

518. Receipts during the year Rupees 117, and up to end of the year Rs. 252.

519. Approximate estimate—

Present value	Rs. 304
Prospective value	...

520. *Nummany*.—Area 486 acres; soil chiefly black cotton; contains 4,210 ripe and 4,621 medium-sized trees, chiefly *Acacia Arabica*; taken up as a reserve in September 1873; it is said that the past year's seedlings are doing well; 226 acres were dibbled with babool seed, which did not germinate on account of drought.

521. Expenditure during the year was Rupees 115, and from the commencement Rupees 389.

522. Receipts during the year have been Rupees 40, and from the commencement Rupees 51.

523. Approximate estimate—

Present value	Rs. 697
Prospective value	Rs. 1,240

524. *Mudithalai*.—Area 200 acres; rain-fed; soil black cotton, taken up and added as a reserve in September 1873; it contains 7,140 ripe and 7,224 medium-sized trees, chiefly *Acacia Arabica*; 40 acres were dibbled with seed, which owing to drought did not germinate.

525. Expenditure during the year has been Rupees 61, and up to the end of the year Rupees 194.

526. Receipts during the year were Rupees 31, and from the commencement Rupees 112.

527. Approximate estimate—

Present value	Rs. 1,647
Prospective value	Rs. 1,936

528. *Peria Perali*.—Area 109 acres; rain-fed; soil very indifferent; it contains 300 ripe and 585 medium-sized trees, chiefly *Acacia Arabica*; taken up and added as a reserve in December 1873.

529. Expenditure during the year was Rupees 13, and up to the end of the year Rupees 78.

530. Receipts—Nil.

531. Approximate estimate—

Present value	Rs. 47
Prospective	Rs. 142

532. The expenditure will not be recouped on account of the bad soil.

533. *Sinna Peralai*.—Area 40 acres; rain-fed; soil very indifferent; contains 30 ripe and 200 medium-sized trees, chiefly *Acacia Arabica*; taken up and added as a reserve in December 1873.

534. Expenditure during the year has been Rupees 5, and from the commencement Rupees 43.

535. Receipts—*nil*.

536. Approximate estimate—

Present value	RS.
Prospective value	...

537. *Andipulinaikanoor*.—Area 103 acres; rain-fed; soil black cotton. It is stated that it contains a good many large seedlings, chiefly *Acacia Arabica*; taken up and added as a reserve in December 1873; seedlings are progressing well.

538. Expenditure during the year was Rupees 12, and from the commencement Rupees 73.

539. Receipts during the year Rupees 4, and from the commencement Rupees 4.

540. Approximate estimate—

Present value ...	RS.
Prospective value ...	64

541. *Pudukolam*.—Area 244 acres; rain-fed; soil indifferent; the principal trees are *Acacia Arabica*; it contains 1,050 ripe and 2,403 medium-sized trees; taken up and added as a reserve in September 1873; last year's seedlings are doing fairly; 195 acres were dibbled with seed, which entirely failed owing to drought.

542. Expenditure during the year Rupees 65, and from the commencement Rupees 312.

543. Receipts during the year Rupees 5, and from the commencement Rupees 25.

544. Approximate estimate—

Present value ...	RS.
Prospective value ...	129
...	582

545. *Tuticorin Block*.—Area 605 acres; soil sand; chief trees Woodie or Umbrella thorn; contains 1,100 ripe and 1,005 medium-sized trees and a fair quantity of seedlings; taken up and added as a reserve in August 1874. The surviving seedlings are doing fairly; one measure of casuarina seed collected; 246 acres were dibbled with seed, but on account of the drought did not germinate; 253 head of cattle impounded.

546. Expenditure during the year has been Rupees 290, and from the commencement Rupees 1,187.

547. Receipts in the year have been Rupees 68, and from the commencement Rupees 465.

548. Approximate estimate—

Present value ...	RS.
Prospective value ...	...

549. *Sendimungalam*.—Area 32 acres; channel-fed; soil indifferent; contains 149 ripe and 216 medium-sized trees, chiefly *Acacia Arabica*; last year's seedlings have failed on account of the drought; taken up and added as a reserve in September 1874.

550. Expenditure during the year was Rupees 8, and from the commencement Rupees 43.

551. Receipts in the year were Rupees 3, and from the commencement Rupees 19.

552. Approximate estimate—

Present value ...	RS.
Prospective value ...	...

553. *Aruvangelam*.—Area 56 acres; channel-fed; soil black cotton; contains 887 ripe and 1,560 medium-sized trees, chiefly *Acacia Arabica*; taken up in September 1874.

554. Four hundred head of cattle were impounded; 606 trees were felled, the yield of which is 106 bandy-loads or 47 tons.

555. Expenditure during the year has been Rupees 59, and from the commencement Rupees 78.

556. Receipts during the year have been Rupees 265, and from the commencement Rupees 277.

557. Approximate estimate—

Present value ...	RS.
Prospective value ...	141
...	387

558. The expenditure has been recouped and a surplus shown.

559. *Naranammanalpoom*.—Area 213 acres; channel-fed; soil indifferent; the principal tree is *Acacia Arabica*; contains 1,012 ripe and 481 medium-sized trees; taken up and added as a reserve in September 1874. It is stated that 34 acres were dibbled with seed, a portion of which germinated and died off for want of rain; 277 bamboo seedlings were planted out, only 30 of which are alive; 461 head of cattle were impounded.

560. Expenditure during the year has been Rupees 81, and from the commencement Rupees 135.

561. Receipts in the year were Rupees 93, and from the commencement Rs. 173.

562. Approximate estimate—

Present value ...	RS.
Prospective value ...	...

563. The expenditure has been recouped.

564. *Rajavulypuram*.—Area 255 acres; channel-fed; soil very indifferent; contains 186 ripe and 445 medium-sized trees, chiefly *Acacia Arabica*; taken up and added as a reserve in September 1874; one hundred and fifteen acres were dibbled with babool seed, a portion of which germinated and died off for want of rain.

565. Expenditure during the year was Rupees 73, and from the commencement Rupees 129.

566. Receipts during the year were Rupees 10, and from the beginning Rs. 41.

567. Approximate estimate—

Present value ...	RS.
Prospective value ...	23
...	105

568. *Peerancolum*.—Area 31 acres; channel-fed; soil black cotton; contains 455 ripe and 258 medium-sized trees; taken up and added as a reserve in September 1874; 10 $\frac{3}{4}$ acres were dibbled with seed, which did not germinate for want of rain.

569. Expenditure during the year has been Rupees 9, and from the commencement Rupees 41.

570. Receipts during the year were Rupees 7, and up to the end of the year Rupees 15.

571. Approximate estimate—

Present value ...	RS.
Prospective value ...	69
...	79

572. *Alaganery*.—Area 39 acres; channel-fed; soil black cotton; contains 850 ripe and 891 medium-sized trees; taken up and added as a reserve in September 1874; 6½ acres were dibbled with babool seed which did not germinate for want of rain; 240 head of cattle were impounded.

573. Expenditure during the year has been Rupees 13, and from the commencement Rupees 41.

574. Receipts in the year were Rupees 11, and from the commencement Rs. 44.

575. Approximate estimate—

Present value	RS.
Prospective value	120
	235

576. The expenditure has been recouped.

577. *Aruvengolam*.—Area 2 acres; irrigated tope; soil indifferent; contains a few mango, nim, and casuarina trees; in all 1,068; taken up and added as a reserve in September 1874; babool seeds were sown all round to form a hedge.

578. Expenditure during the year has been Rupees 7, and from the commencement Rupees 71.

579. Receipts during the year were Rupees 5, and up to the end of the year Rupees 14.

580. Approximate estimate—

Present value	RS.
Prospective value	35
	185

581. *Anantakristnapuram*.—Area 10 acres; irrigated tope; contains a few mango, nim and chittagathee trees; in all 446; taken up and added as a reserve in September 1874; during the year new fencing was erected all round, bare spaces were dibbled with vagai and nim seeds; all germinated, but a few only are alive.

582. Expenditure during the year has been Rupees 46, and from the commencement Rupees 117.

583. Receipts in the year were Rupees 8, and from the commencement of operations Rupees 29.

584. Approximate estimate—

Present value	RS.
Prospective value	

585. The above reserves are chiefly in tank-beds, and they are all situated near the line of railway. A portion was inspected by the Conservator and a report submitted—*vide* G.O., No. 759, dated 21st February 1877.

586. The gross expenditure on all the reserves during the year has been Rupees 2,457 (inclusive of supervision charges), and from the commencement Rupees 10,924.

587. The total receipts during the year were Rupees 1,873, and from the commencement Rupees 3,730.

588. *North Coimbatore*.—There are four reserves in this division, known as the Mettapolliem H No. I, K No. II, and M No. III and Sholakurray, with an estimated area of 13,170 acres.

H No. I Reserve.—Is situated on the right bank of the Bhowani river above Nellitoray, some 5 miles from Mettapolliem; it is hilly and well clothed with trees. Estimated area 5,120 acres or 8 square miles. No felling has taken place during the year. It is unsurveyed, fenced on three sides, the Bhowani river being to the north. The principal trees are woonjul, vengay, tamarind and fuel-yielding trees.

589. Expenditure during the year has been Rupees 28, and from the commencement Rupees 739.

590. Receipts *nil*.

591. Approximate estimate—

	RS.
	3,000
Present value	
Prospective value	

592. *K No. II Reserve*.—Estimated area 3,840 acres; it lies on the left bank of the Bhowani river opposite to the H Reserve; the principal trees are teak, vengay, black-wood and jungle timber in patches of what might be called second-class forest, and it is rather a timber forest than a fuel reserve; in the midst of it there is also a quantity of Irulor cultivation. It will never pay to fence in the tracts or attempt the systematic conservancy of fuel until the Railway Company agrees to take all that can be delivered at Mettapolliem.

593. Expenditure during the year has been Rupees 27, and from the commencement Rupees 65.

594. Receipts *nil*.

595. Approximate estimate—

	RS.
	3,000
Present value	
Prospective value	

596. *M No. III Reserve*.—Estimated area 3,200 acres; it is situated on the left bank of the Bhowani not far from the Kotagerry ghaut; the chief trees are woonjul, vellanagay, munjakadumbay, &c. Many portions are quite bare; it is very rocky and stony and quite unfit for cultivation, but adapted to grow heavy woonjul, if cattle and goats could only be excluded for a given period.

597. Expenditure during the year has been Rupees 54, and from the commencement Rupees 1,543.

598. Receipts from the commencement were Rupees 70, and during the year *nil*.

599. Approximate Estimate—

	RS.
	9,000
Present value	
Prospective value	

600. Mr. Morgan states that he is unable to give a correct estimate of the portion stocked, half stocked, &c., as they cannot be measured owing to dense and thorny undergrowth, but this full is the apparent estimate.

601. The gross expenditure of above reserves during the year has been Rs. 132 (inclusive of supervision charges), and from the commencement Rupees 2,370.

602. Receipts from the commencement have been Rupees 70, and during the year *nil*.

603. These were inspected by the Conservator and a report submitted—*vide* G.O., No. 298, dated 23rd January 1877.

604. It is a mistake calling these Mettapolliem tracts "Reserves;" they are quite open tracts and overrun by cattle and goats, and hacked about by cattle drivers and game snarers, and swept by fire.

605. *Sholakurray*.—Estimated area 1,010 acres; it is situated close to the railway line as the extreme western end of the Coimbatore District. The chief trees are teak, vengay, rosewood, poongay, karungally, vanny, mango, tamarind, pillamaradoo, &c.

606. Expenditure during the year has been Rupees 153 (inclusive of supervision charges), and from the commencement Rupees 14,093.

607. Receipts in the year were Rupees 983, and from the commencement Rupees 2,088 from all sources.

608. Approximate estimate.

609. The value of the fuel will quite depend on the demand from the Railway; there are numerous teak and other valuable timber saplings for which there will be fair sale.

610. SALEM.—There are eleven reserves in this division with an estimated area of 12,542 acres against 19,369 entered in last report; the difference is due to the reserves having been surveyed and demarcated by the Revenue Survey Department and the correct area ascertained.

611. A Reserve, Vadagumpetty.—A close reserve on both sides of the Railway line near the Shevaroy Hill station, taken up in 1866-67; surveyed and demarcated; contains *Albizia lebbek amara* and *Odaratissima*, *Azadirachta Indica*, *Zyzyphus glabrata*, *Prosopis spicigera*, *Chloroxylon swietenia*, *Conocarpus latifolia*, *Alanguin lamarkii*, *Dichrostachys cinerea*, *Cassia fistula*, *Acacia leucophloea*, *Pongamia glabra*, *Strychnos nux vomica*, *Grewia Rothii*, *Erythroxylon Indicum*, *Capparis pyrifolia*, *Premna tomentosa*, *Diospyros montana*, besides thorny scrub such as *Acacia latronum* and *Pteroloma lacerans* and small shrubs such as *Dodonaea*, *Fluggea*, &c.

612. It is fenced with stone walls and there are about 200 trees to the acre in the more fully-stocked portions. One acre of land was cleared of brushwood, &c., ploughed and sown broadcast with vagai, thooranjee, &c., seeds, but the young plants that germinated freely have withered on account of the drought.

613. Expenditure during the year has been Rupees 455, and from the commencement Rupees 3,646.

614. Receipts during the year were Rupees 1,254, and from the commencement Rupees 2,987.

615. Approximate estimate—

Present value	Rs.
Prospective value, at 2 tons per acre per annum, fixing fifteen years as the period of rotation	17,705

616. B Reserve, Maroor.—Close reserve; area 799 acres; taken up in 1866-67; abutting the Railway line on the west side half-way between the Shevaroy Hill station and Mullapooram. The principal tree is *Albizia amara*, and the others as in the A Reserve.

617. There are about 200 trees to the acre in the more fully-stocked portions. Broadcast sowing was carried out to the extent of one acre with babool, vengay, &c., seeds; although the germination of the seeds was at first very satisfactory, yet most of the plants died out for want of rain.

618. Expenditure during the year has been Rupees 228, and from the commencement Rupees 2,807.

619. Receipts in the year were Rupees 31, and from the commencement Rs. 68.

620. Approximate estimate—

Present value	Rs.
Prospective value, at 2 tons per acre per annum, fixing fifteen years as the period of rotation	7,159

621. C Reserve, Mullapuram.—It was originally taken up in 1866-67 for a plantation; it abuts the Railway line on the east side near the Mullapuram Railway station with an area of 587 acres. A close reserve; surveyed and demarcated; the trees are *Albizia amara* and *Prosopis spicigera*, *Acacia Arabica*, *Albizia speciosa*, *Azadirachta Indica*, *Cassia florida*, &c.; soil black cotton; and as it is impregnated with soda it is not deemed advisable to sow broadcast in any portion of it.

622. Expenditure during the year has been Rupees 135 and from the commencement Rupees 7,023.

623. Receipts in the year were Rupees 31 and from the commencement Rupees 305.

624. Approximate estimate—

Present value	Rs. 2,630
Prospective value at 1 ton per acre per annum, fixing fifteen years as a period of rotation.	

625. D Reserve, Burgoor.—Taken up in 1866-67, area 221 acres; it is situated 5 miles to the south of Bangalore line, 16 miles to the west of Tripatty; all fenced partly with stone and partly with aloes; consisting of *Acacia sundra*, *Chloroxylon swietenia*, *Wrightia tinctoria*, *Canthium didymum*, *Premna tomentosa*, *Albizia Amara* and *Azadirachta Indica*, &c.; about 200 trees to the acre in the more fully stocked portions; soil red sand; no sowing has taken place for want of rain.

626. Expenditure during the year has been Rupees 138 and from the commencement Rupees 1,975.

627. Receipts during the year were Rupees 20 and from the beginning of the year Rupees 41 from all sources.

628. Approximate estimate—

Present value	Rs. 9,587
Prospective value estimated at 2 tons per acre per annum, fixing fifteen years as a period of rotation.	

629. E Reserve, Poodoor.—Area 1,070 acres, taken up in 1866-67; two miles to the south of the Bangalore line and 18 miles to the west of Tripatore. A close reserve surveyed and demarcated; consisting of *Albizia Amara*, *Chloroxylon swietenia*, *Pongamia glabra*, &c.; about 200 trees to the acre in the more fully stocked portions; no broadcast sowing was carried out in this reserve for want of rain.

630. Expenditure during the year has been Rupees 262 and from the commencement Rupees 2,773.

631. Receipts during the year were Rupees 269 and from the commencement Rupees 290.

632. Approximate estimate—

Present value	Rs. 9,587
Prospective value at 2 tons per acre per annum, fixing fifteen years as the period of rotation.	

633. Pillapilly.—Area 981 acres, taken up in 1873-74, situated to the east of the Railway line near the Shevaroy Hill station. A close reserve, surveyed and demarcated; consisting of *Albizia Amara* and similar trees to those in the A reserve; about 200 trees to the acre in the more fully stocked portions.

634. Expenditure during the year has been Rupees 216 and from the commencement Rupees 794.

635. Receipts in the year were Rupees 11 and from the commencement Rupees 22.

636. Approximate estimate—

Present value	Rs. 8,790
Prospective value at 2 tons per acre per annum, fixing fifteen years as the period of rotation.	

637. Cooriappocombay.—Area 531 acres, taken up in 1873-74; it is situated from two to three miles to the east of the Railway line, about half way between the Shevaroy Hill station and Mullapooram, fenced partly with stone walls and partly with aloes. A close reserve, surveyed and demarcated; consisting of *Albizia Amara* and other trees similar to those in the A reserve; about 200 trees the more fully stocked portions.

638. During the year one acre of land was ploughed up and sown with Thuringee, &c., seeds, which germinated well; but, owing to the drought, many of the young plants died off.

639. Expenditure during the year has been Rupees 151 and from the commencement Rupees 555.

640. Receipts during the year were Rupees 31 and from the commencement Rupees 38.

641. Approximate estimate—

Present value Rs. 4,758
Prospective value at 2 tons per acre per annum, fixing fifteen years as the period of rotation.

642. *Ummannary*.—Area 252 acres, taken up in 1872-73; it is situated to the west of the Railway line near the Shevaroy Hill station. A close reserve, surveyed and demarcated, and fenced partly with stone walls and partly with aloes; consisting of *Albizzia Amara* and other trees the same as in A reserve; about 200 trees to the acre in the more fully stocked portions; one acre of land was sown broadcast with Babal and Thuringee seeds, but they have not germinated fairly.

643. Expenditure during the year has been Rupees 77 and from the commencement Rupees 1,283.

644. Receipts during the year were Rupees 11 and from the commencement Rupees 22.

645. Approximate estimate—

Present value Rs. 2,258
Prospective value estimated at 2 tons per acre per annum, fixing fifteen years as the period of rotation.

646. *Utengherry*.—Area 469 acres, soil stony, taken up in 1872-73; it is situated four miles to the east of the Railway line. A close reserve, surveyed and demarcated; consisting of *Albizzia Amara* 90 per cent., *Cassia fistula*, *Strychnos nux vomica* and *Pongamia glabra*; about ninety trees to the acre in the more fully stocked portions.

647. One acre of land was ploughed up and sown broadcast with Babul and Thuringee seeds, very few of which germinated an account of the unfavorable season.

648. Expenditure during the year has been Rupees 268 and from the commencement Rupees 876.

649. Receipts during the year Rupees 25 and from the commencement Rupees 25.

650. Approximate estimate—

Present value Rs. 2,102
Prospective value estimated at 1 ton per acre per annum, fixing fifteen years as the period of rotation.

651. *Singarapett*.—Area 4,480 acres, taken up in 1874-75; situated twelve miles to the east of the Railway line near Singarapett. It is a close reserve, surveyed and demarcated; consisting of *Albizzia Amara*, *Strychnos nux vomica*, *Chlororylon swietenia*, and *Acacia sundra* (catechu), the latter largely represented 20 to 30 per cent.; about 300 trees to the acre in the more fully stocked portions.

652. Owing to bad weather no sowing has taken place during the year.

653. Expenditure during the year has been Rupees 479 and from the commencement Rupees 1,820.

654. Receipts during the year have been Rupees 25 and from the commencement Rupees 72.

655. Approximate estimate—

Present value Rs. 60,211
Prospective value at 3 tons per acre per annum, fixing fifteen years as the period of rotation.

656. *Harroor*.—Area 1,176 acres, taken up in 1874-75; situated near Harroor, six miles to the east of the Railway line. It is a close reserve, surveyed and demarcated; consisting of *Albizzia Amara*, very largely represented, *Strychnos nux vomica*, and *Mimasops hexandra*, *Wrightia tinctoria*, &c.; about 100 trees to the acre in the more fully stocked portions. It was lately taken over and had suffered much from indiscriminate felling, and will not be fit to be felled again for a long time. Owing to bad weather no sowing has taken place during the year under review.

657. Expenditure during the year has been Rupees 147 and from the commencement Rupees 1,105.

658. Receipts during the year were Rupees 50 and up to the commencement of the year nil.

659. Approximate estimate—

Present value Rs. 5,268
Prospective value estimated at 1 ton per acre per annum, fixing fifteen years as the period of rotation.

660. The gross expenditure of all the reserves in this division during the year has been Rupees 3,245 (inclusive of supervision charges) and from the commencement Rupees 25,247.

661. Receipts during the year have been Rupees 1,759 and from the commencement Rupees 3,920 from all sources.

662. All these reserves were inspected by the Conservator and a report submitted—*vide* G.O. No. 1,172, dated 21st March 1877.

663. *Walliar*.—Estimated at 4,002½ acres. It is a close reserve, roughly demarcated and lately divided into sixteen blocks. Contents, — Teak coppice stunted, and saplings, several *Terminalias*, *Alangium*, *Albizzia odoratissima* and *Lebbek*, *Phyllanthus emblica*, *Grewia tiliaefolia*, *Prosopis spicigera*, *Dichrostachys*, *Acacia sundra*, and *Leucophlœa*, *Xylia dolabiformis*, *Dalbergia latifolia*, *Wrightia*, *Nauclea*, *Anogeissus*, *Lebidierspsis orbicularis*, &c.

664. The period of rotation will be about 8 years and the yield of fuel at first felling 10 to 12 tons to the acre, but increasing under conservancy.

665. Teak will be sold separately and will yield a revenue of about Rupees 500 annually.

666. Expenditure during the year has been Rupees 754 (inclusive of supervision charges) and from the commencement Rupees 48,815.

667. Receipts in the year have been Rupees 855 and from the commencement Rupees 2,488 from all sources.

668. This reserve has been inspected by the Conservator, but this was in 1877-78, and a report is being submitted through the Collector of Malabar.

669. In conclusion, I hope that the above report may be found correct by the Board.

ENCLOSURES Nos. 1 to 27.—Reports of Divisional Officers on Plantation and Fuel Reserves.

ENCLOSURE No. 28.—General Report on Plantations.

ENCLOSURE No. 29.—General Report on Fuel Reserves.

STATEMENT A showing the extent of existing Plantations (under Imperial Forest Department) in each division up to the end of the official year ending 31st March 1877.

	Increase
N.B.—Total area planted during 1876-77	308½
" shown in Nelumbur since last year	33
" of Gumsur and Surada	31
Total..	342½

Total area planted since last report ..	"	Acre.
.. 3084		
increase of planted area of Gumsur and Surada ..	304	
<hr/>		
23 acreage of this report for 1876-77 ..	8,258½	
of last report for 1876-76 ..	7,914½	
<hr/>		
		344

Ootacamund,
31st October 1877.

314³
R. H. BEDDOME, Lieut.-Colonel,
Conservator of Forests.

ENCLOSURE No. 31

Decrease.		
Acres.		
Tinnevely	17,440	827
Salem		6,858
Total ..	17,440	6,858

Increase of average shown in Madura—Vote remarks on this Division.	17,440
Decrease of do. in Tinnevely and Salem do.	6,828
Difference ..	10,612
Total average of this report for 1876-77 ..	1,44,927½
Do. of last report for 1875-76	1,31,315½
Do.	13,612

(Signed) R. H. BEDDOME, Lieut.-Colonel,
Conservator of Forests.

DOTACAMUND,
31st October 1877.

The Conservator's report on plantations and fuel reserves for the official year ending 31st March 1877 will be submitted for the orders of Government.

2. In planting there has been progress, 308½ acres having been added, but the season has been unfavorable.

Under firewood reserves there appears an addition of 10,612 acres, but this is entirely due to corrections, and the inclusion of reserves omitted in last year's statements.

3. Planting operations show an excess of expenditure over income up to date of Rupees 4,89,601 and in the reported year of Rupees 28,344.

Firewood reserves show an excess of income over expenditure up to date of Rupees 1,45,454 and in the year of Rupees 9,363.

4. Under all heads the expenditure exceeds the income up to date by Rupees 6,35,055 and in the year by Rupees 37,757.

But this expenditure represents much uphill work and growing valuable property.

5. There are 8,258½ acres of planted timber and 144,927½ acres, say 226½ miles, of firewood reserve.

6. These results are shown in the first twenty-six paragraphs of the report. The rest deal in detail with the several plantations, which detail could seemingly be abbreviated and review rendered easier by the use of tabular statements with a remark column for peculiarities; the more so as the detail management comes more closely under review in the several inspection reports. It is observed that the promised report on the revised forms of plantations and fuel reserves has not yet been received.

(True Copies and Extract.)

J. Murray
Acting Sub-Secretary.

To the Secretary to Government, Revenue Department,
with twenty-nine original reports to be returned.

Conservator of Forests.
Copy to all Collectors of Forest Districts.

Exd. W. J. Lewis.

14-3-77
Mr. Secretary, Revenue Department
14-3-77

Recorded.
2. The Forests Branch in
part 6 should be in the attention
of the Conservator.

Ch. 1108

1878.
Board of Revenue,
MADRAS.

PROCEEDINGS, 28TH MAY 1877 No. 1,419.

Copy 14/16/78

Received 26 June

Ch. 1108 30 July 1878

MAY.

No. 1,419.

Plantations and Fuel Reserves.—Submitted to Government report from Conservator of Forests on — for the official year ending 31st March 1877.

W. J. Lewis