GOVERNMENT OF THE CENTRAL PROVINCES AND BERAR



ADMINISTRATION REPORT

ON THE

FOREST DEPARTMENT

IN THE

CENTRAL PROVINCES & BERAR

FOR THE YEAR ENDING THE

31ST MARCH 1940

NAGPUR GOVERNMENT PRINTING, C. P. & BERAR 1941

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GOVERNMENT OF THE CENTRAL PROVINCES AND BERAR

FOREST DEPARTMENT

Nagpur, the 17th January 1941.

READ-

The report by the Chief Conservator of Forests on Forest Administration in the Central Provinces and Berar for the year ending the 31st March 1940.

RESOLUTION

Financially the year under report was the most successful of the decade. The gross receipts increased by over Rs. 1.75 lakhs to Rs. 50.44 lakhs. All the main heads of income, except grazing, contributed to this result. The net surplus of Rs. 15.07 lakhs which exceeded last year's surplus by Rs. 1.27 lakhs was the highest since 1930-31. The improved financial results were due almost entirely to increased receipts in the departmental timber operations and to increased volume of traffic on the Raipur Forest Tramway. The departmental operations yielded Rs. 1.31 lakhs more than the previous year. The saw mill at Allapilli showed a net profit of Rs. 2.15 lakhs against Rs 1.49 lakhs in the previous year. An innovation in the method of transport introduced at Allapilli during the year was lorries operated on producer gas, the operation costs of which are very much lower than those of petrol-driven vehicles. The results obtained so far are reported to be satisfactory.

- 2. The Raipur Forest Tramway also had its best year since 1931. The gross earnings amounted to Rs. 1.85 lakhs and the net surplus of receipts over expenditure was Rs. 82,773 which more than covered the depreciation charges and yielded a small interest on the capital invested.
- 3. There was a heavy decline of 1.25 lakhs in the number of animals sent to forests for grazing. This resulted in a fall in income of about Rs. 61,000. This shrinkage in grazing is attributable mainly to economic depression and scarcity conditions in Berar and in certain parts of the Nagpur Division. It has been estimated that the concessions granted to the public represent Rs. 12.45 lakhs in value.
- 4. In areas where ccarcity conditions prevailed, Government granted the concessions of free extraction of fuel and grass by headloads and free removal of fruits, edible roots and tubers. This indirect assistance is estimated to be worth Rs. 23,572. In addition,

forest works, e.g., construction of new roads and special repairs to existing roads and departmental fellings and thinnings were organized to provide relief in the affected areas.

- 5. A further measure of economy carried out during the year was the abolition of the Melghat Division and distribution of its ranges between the Amraoti and Betul Divisions. In other respects also economy was observed wherever possible. It is reported that the inadequate grants during the last few years have resulted in considerable deterioration of the condition of roads, the wear and tear on which has been increased by throwing them open to all traffic. An improvement in the housing conditions of the staff in the department, especially the subordinate staff, is long over due. The need of suitable housing accommodation for the contentment and health of the staff is evident.
- 6. Forest offences showed a considerable increase during the year but Government is pleased to note that the number of assaults on the staff has halved, though it included one fatal assault. A good deal of criticism has been levelled in the Legislative Assembly and elsewhere on the procedure of compounding forest offences. This question was under the examination of Government during the year.
- 7. In furtherance of the scheme of education in forest villages nine more schools were opened during the year and some of the schools had to be provided with an additional teacher. Government regrets that more could not be done in this respect owing to financial stringency.
- 8. Mr. Cox, the Chief Conservator of Forests, proceeded on leave preparatory to retirement in the month of October. Government wishes to place on record its appreciation of his loyal and devoted service and of the extremely helpful manner in which he approached problems of forest administration. Government's thanks are also due to all members of the staff who contributed to a successful year's working.

ORDER.—Ordered that a copy of this resolution be forwarded to the Chief Conservator of Forests and to the Conservators of Forests, Central, Eastern and Western Circles, for information and guidance; also that it be published in Part I of the Central Provinces and Berar Gazette.

By order of the Governor, C. P. & Berar,

K. B. L. SETH,

Secy. to Govt., C. P. & Berar,

Forest Department.

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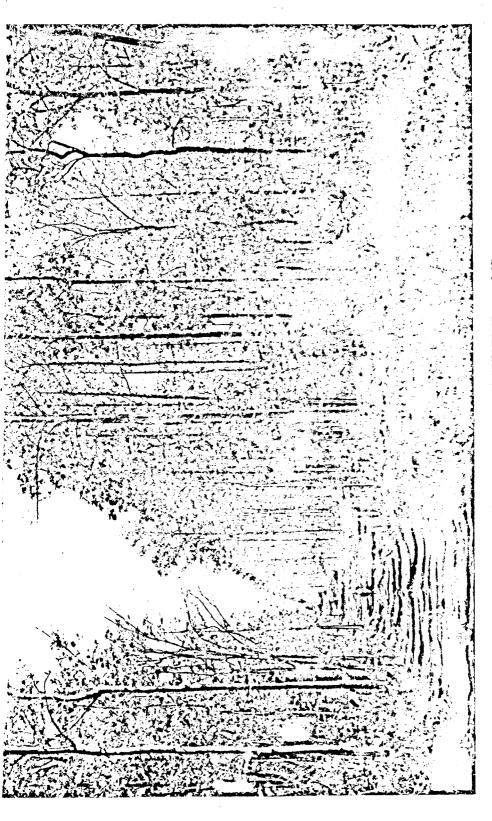


PLATE I.—ALLAPILLI TEAK FORESTS (Paragraph 39)

REPORT ON THE FOREST ADMINISTRATION IN THE CENTRAL PROVINCES AND BERAR FOR THE YEAR ENDING 31st MARCH 1940

CHAPTER I.—CONSTITUTION OF STATE FORESTS

1. Changes in area.—There was no change in the total area under the control of the Forest Department which stood at 19,432 square miles exclusive of 174 square miles of the Ahiri Leased Forests as shown in Form 7.

The excision of certain forest areas in the Eastern and Central Circles for cultivation was more than counterbalanced by the afforestation of certain areas in the latter Circle.

As a measure of economy the old Amraoti and Melghat divisions were amalgamated with adjustments to Betul division and formed into a new major division under the name of Amraoti with effect from 1st October 1939.

- 2. Forest settlements.—Settlements were completed for 5.79 square miles and are in hand for .51 square mile.
- 3. Demarcation.—The five-year demarcation scheme was adhered to as far as funds permitted at a cost of Rs. 11,111 (Rs. 10,465). The total length decreased by 210 miles to 34,373 miles due mainly to re-measurement of boundaries in Bhandara during the revision of the working plan.
- 4. Forest surveys.—No forest surveys were undertaken during the year.
- 5. Constitution of State forests.—The expenditure under the head was Rs. 26,359 (Rs. 27,584).

CHAPTER II.-MANAGEMENT OF STATE FORESTS

I.—REGULATION OF MANAGEMENT

6. Preparation and control of regular working plans.—The revised working plans (technical revisions) for Seoni and the North Raipur sub-division of Bilaspur sanctioned last year were introduced with effect from 1st July 1939. Revised plans (technical revisions) for Chhindwara (662 square miles), Bhandara (559 square miles) were also sanctioned by the Chief Conservator of Forests during the year and introduced from 1st July 1939 and 1st July 1940, respectively. The revised Buldana Working Plan (full revision) which was completed last year has been submitted to Government for sanction. New Plans (full revisions) for the Akola forests of the West Berar division and the babul bans of Amraoti are under preparation and will be completed in 1940-41.

- 7. The revised Hoshangabad plan (technical revision) could not be completed and issued during the year. On the advice of the Inspector-General of Forests a special statistical party was employed throughout this working season collecting figures which may lead to the modification of the proposed treatment of the valuable Bori forests. The prescriptions of the revised plan were adhered to so far as the General Teak Working Circle and Low Forest Working Circles are concerned, but the Bori Special Working Circle is being worked under a temporary working scheme proposed by the Central Silviculturist pending conclusions to be derived from a study of the statistics now collected. Increment statistics similar to those collected in Hoshangabad are being collected for the Allapilli-Pedigundam -Working Plan which is to be revised in 1941-42.
- 8. Control.—The prescriptions of the sanctioned Working Plans have been generally adhered to and all deviations have been sanctioned by the Chief Conservator of Forests. In the Sal High Forest Working Circle of Mandla, control of yield by area was introduced in place of control of yield by units of volume. The marking rules and the sequence of fellings of that plan were also revised in the light of experience gained. The marking and felling rules of the High Forest Working Circles in the Bilaspur division were also revised. Plans of operations were drawn up as usual in all divisions and adhered to in all essential details.
- 9. Preliminary Working plans.—No preliminary working plans were sanctioned during the year.

II.—COMMUNICATIONS AND BUILDINGS

10. Roads.—Owing to financial stringency only 15 miles and 42 chains of forest roads were constructed during the year at a cost of Rs. 9,872 (Rs. 16,824) as shown below:—

Division		Name of road		<u></u>	chains	Cost
						Rs.
Mandla	••	Mohgaon-Matiari	••	7	0	2,249
Amraoti	••	Sembadoh-Raipur (cons dation.)	oli-	1	40	2,124
Nimar		Golai-Malur	••	2	47	2, 497
Betul		Baladongri-Bhumkababa		3	69	2,499
Do.	••	Sajpur-Pah a r w a r i-B o : Betul.	r i-	0	36	173
Hoshangabad		Jatamau-Naharkola	••	0	10	327
Bhandara	••	Supervision charges Pongijhira-Hirdamali.	on	•	• .	3

In addition Rs. 5,151 were spent on the construction of 8 miles and 30 chains of the Batwa-Ahmadpur road in Balaghat from funds contributed by the Bengal-Nagpur Railway and Deputy Commissioner, Balaghat, from the discretionary grant.

- 11. The cost of maintenance of 10,534 miles of roads amounted to Rs. 1,11,290 (Rs. 1,13,633) or an average of only Rs. 10-8-0 per mile (Rs. 11). The traffic on certain forest roads is now so heavy that their maintenance as surface roads in good order is not possible with the present allotment of funds. Such roads are not only of importance for the extraction of forest produce but also form the general system of communication in remoter parts of the province. In such localities the road system is steadily deteriorating and the difficulties of extracting the produce of coupes is increasing. Unless more money is allotted for substantially improving such roads, the situation must get worse each year.
- 12. Rs. 1,115 were paid by district councils and other authorities for the upkeep of forest roads used largely by the public.
- 13. Raipur forest tramway.—The year under report shows a remarkable improvement in the earnings of the tramway which increased by Rs. 29,635 to Rs. 1,85,834—a record figure since the year ending 30th June 1931. This was mainly due to the excellent progress made by Messrs. H. Dear & Co., in the transport of their sleepers as a result of the concessional rate allowed to the company. Sleepers to the extent of 422,130 maunds—the largest quantity ever received from this source since the opening of the tramway—were transported yielding a revenue of Rs. 1,08,142 or over 58 per cent of the gross revenue. Public and goods traffic also showed a revival with the result that earnings from these sources also improved considerably. The push trolley service introduced during 1938-39 recorded a decline in the gross earnings, presumably due to motor bus competition. Increased facilities in the way of reduction of fares and construction of four new trollies have been offered and the result will be watched with interest. Receipts from the Forest Department under "goods traffic" registered a decrease of Rs. 2,957 due to less transport of scantlings, bugglies and firewood but this was partly counterbalanced by increased traffic in poles, logs and bamboos. Improvement cannot be expected until the Raipur Forest Depot is reorganised; proposals are before Government. Public traffic in goods practically maintained last year's level. The harra crop of the year was poor and irregular rainfall seriously affected the paddy crop. The traffic in oilseeds, fire-wood, poles, and logs however showed considerable growth. Negotiations for logs however showed considerable growth. through-booking of goods traffic between the Raipur forest tramway and the Raipur-Dhamtari branch of the Bengal-Nagpur Railway are still in progress. The installation of a weighbridge at Bagleygani referred to in the last year's report is still under the consideration of Government.

The trainway carried over 20,000 passengers and 833,000 maunds of goods during the year. Working costs increased slightly by Rs. 2,014 to Rs. 1,03,061 mainly due to increased working costs as a result of increased traffic. In spite of this heavy expenditure the gross earnings exceeded working expenses by Rs. 82,773 which covered the depreciation charges of Rs. 29,826 and left a substantial profit.

14. Buildings.—A sum of Rs. 6,565 (Rs. 2,569) was spent on the construction of the following buildings:—

(i) Range Officer's quarters at Karanjia (ii) Part construction of Range Officer's quarters at Dindori.	Rs. 3,142 1,003
(iii) Construction of eight Forest Guard nakas(iv) Purchase of the Post Office building at Allapilli	2,020 400
Total	6,565

The urgent need for suitable housing accommodation for the subordinate staff has been brought to the notice of Government year after year, but owing to financial stringency adequate funds were not allotted. The position of forest subordinates in certain divisions is most depressing. Deputy Commissioners have again freely commented on the inadequacy of housing accommodation of forest subordinates upon whom depends the proper administration of the department. The position as regards the actual building requirement of the department as revised by Conservators is exhibited below:—

Class of officers	Total number		y Govern- ent	Available on	Still required	Approxi- mate cost
Ciuss of officers		Suitable	Unsuit-	rent	requires	
						Rs.
Gazetted Officers	34	27	1	6	7	58,000
Forest Rangers	128	117	6	5	11	41,800
Range Assistants	397	299	71	20	9 8	1,27,600
Forest Guards	2,591	1,705	625	93	886	3,40,250
Paid Vendors	66	40	11		26	9,150
Combined Range Office and Range clerk's quarters and other build- ings.	173	118	35	16	55	72 ,650
Assistant Instruc- tor's quarters.	3	2	••	••	1	3,000
Total	3,392	2,308	749	140	1,084	6,52,450

- 15. The expenditure on the upkeep of the existing buildings amounted to Rs. 68,288 (Rs. 65,389). More money is required for special repairs to certain old buildings which are deteriorating rapidly because essential special repairs cannot be carried out.
- 16. Miscellaneous works.—Expenditure on wells, tanks and other works amounted to Rs. 14,165 (Rs. 13,663) of which Rs. 3,623 were spent on new works.

In addition a sum of Rs. 5,274 was placed at the disposal of the Forest Department out of the Government of India grant for improving the water-supply in forest villages to be spent up to 15th June 1940. Rs. 356 were spent to end of March 1940.

III.—PROTECTION OF FORESTS

17. (a) General protection.—The following statement compares the number of forest offences of the year with those of 1938-39 and with the average of the last three years:—

Nature of offenœ	Average of three years ending 1937-38	1938-39	1939-40	Increase or decrease	Percentage of cases to total cases
(1)	(2)	(3)	(4)	(5)	(6)
(i) Injury by fire	535	628	1,044	+416	4
(ii) Unauthorized telling	12,818	11,943	12,766	+823	48
(iii) Unauthorized graz- ing.	11,950	9,907	10,249	+342	39
(iv) Other offences	2,401	1,788	2,480	+692	9
Total	27,704	24,266	26,539	+2,273	100

Although the total number of forest offences registered during the year shows an increase of 2,273 cases over last year yet it is less than the average of the last three years ending 1937-38 by 1,165 cases. The increase occurred under all heads and in all circles—mainly in the Western Circle (1,259) and is attributed by Divisional Forest Officers to—

- (a) prolonged hot weather,
- (b) better vigilence on the part of the subordinate staff and the economic condition of the people,
- (c) abnormal tendency to steal forest produce by people owing to levy of lower compensation,
- (d) grant of concession to the general public for free removal of grass and fuel which tempted them to resort to illicit fellings.
- 18. It is always difficult to explain these changes. Ninety-three cases (not 92 reported in the last report) were pending in courts at the commencement of the year to which 332 cases were added, making a total of 425 cases.

Of these, 222 resulted in convictions, 59 in acquittals, 44 were subsequently withdrawn and compounded and 100 remained pending. The percentage of convictions was 79 (84) and punishments awarded by the courts were generally adequate.

19. Cases compounded.—The number of cases dealt with under section 68 of the Indian Forest Act was 21,468 involving 54,921 persons against 20,108 cases involving 50,331 persons last year. The average compensation per case and per person was Rs. 4-4-6 (Rs. 4-8-10) and Rs. 1-10-9 (Rs. 1-13-1), respectively. In

view of the economic conditions of the people low rates of compensation were levied. The question of prescribing maximum penalties in forest offence cases on a sliding scale for the guidance of compounding officers referred to in last year's report was not considered feasible by Government and special orders on the subject are being issued.

In addition to the above, 46 forest offence cases were detected in rayatwari forests by subordinates in North Chanda division under section 33 of the Indian Forest Act and were forwarded to the revenue authorities for disposal. These included two cases under the Central Provinces Game Act of 1935.

- 20. Undetected cases.—The number of registered and un detected cases was 2,186 (1,474).
- 21. There were 8 cases of assaults on forest subordinates in the Saugor, Jubbulpore and Balaghat divisions during the year; one of which resulted in the death of a Forest Guard in Saugor. The criminal case in connection with this fatal assault remained pending at the close of the year. In the other 7 cases, 4 resulted in conviction, one was acquitted, one was not prosecuted by the Police for want of sufficient evidence and one remained under enquiry. The number of assaults on forest subordinates has decreased apparently as a result of deterrent punishments.
- 22. Rewards amounting to Rs. 981 (Rs. 778) were paid to subordinates and informers in 370 (315) cases.
- 23. (b) Protection from fire—(Form Nos. 14 and 15).—The area under fire protection further rose by 74 square miles to 15,503 square miles mainly in the Eastern and Central Circles. Weather conditions were again unfavourable to fire protection owing to the prolonged hot weather and the area burnt increased by 184 square miles to 780 square miles or 5 per cent of the area under protection. The expenditure was Rs. 60,193 (Rs. 57,581) or Rs. 3-14-1 (Rs. 3-11-9) per square mile. The increase in the cost of fire protection is due to more fire watchers having been engaged for longer periods in the Central Circle due to the prolonged hot weather and also to more expenditure on putting out fires in the protected areas.
- 24. The number and the origin of fires are exhibited in Form No. 15. In all there were 1,521 (1,038) fires burning an area of 498,942 acres (381,858 acres). The abnormal increase both in the number of fires and in the area burnt is reported to be mainly due to the prolonged hot weather. The Conservator, Central Circle, has again brought to notice the deterioration of fire discipline in North Chanda and action has been taken to create healthy traditions by ceaseless propaganda and by inflicting heavy punishments on all those found negligent in this respect. A leastet on fire protection has been printed in Hindi for the guidance of Forest Guards and issued shortly after the close of the year. The public unfortunately is also to blame to some extent for the increase in fire damage through failure to exercise sufficient care when passing through reserved forest.

25. (c) Protection from cattle.—Areas closed and open to grazing are compared below with the figures of last year:—

	1938-39	1939-40
	Square miles	Square miles
(i) Closed partially or entirely	1,888	1,950
(ii) Open to all animals including browsers.	2,681	2,607
(iii) Open to all animals except browsers.	14,863	14,875
(iv) Percentage open	90	90

The small differences are due to variations in the size of coupes closed and opened to grazing.

- 26. The number of cattle impounded was 2,690 (4,052). The decrease is due to the greater efforts now made by the subordinate staff in tracing out the owners of stray cattle.
- 27. (d) Protection against injuries from natural causes—Frost.—There was considerable damage in the Sal Forests of Mandla, Bilaspur and Balaghat. Sal coppice re-growth and seedlings were also badly affected in the Murwara Range of the Jubbulpore division. Some damage to young plants was also noticed in the Sitanadi Range and in low-lying localities in the Risgaon Range in Raipur. In the Central and Western Circles, however, only slight damage was recorded and for practical purposes the year was free from frost.
- 28. Wind and hail.—In the North Chanda division several gales during the rains resulted in wind falls in areas where the soil is shallow specially in parts of Warora and Sindewahi Ranges. Scrious damage from wind occurred in Pulakhera Circle of the Amla Range and parts of Bhawargarh Range in Betul. A number of small land-slides took place on the steep hill sides of Bori and Sohagpur Ranges of Hoshangabad. Damage from wind was also reported in the Sonakhan Range of Bilaspur and in Dhanwahi and Tendukhera Ranges of the Jubhulpore and Saugor divisions.
- 29. Drought.—No appreciable damage was noticed. Casualties in the new plantation in North Chanda were high.
- 30. Floods.—Timber worth Rs. 1,000 from compartment No. 266 belonging to contractor Brijlal was washed away by a flood in the Machna river in September in the Betul division. In Nimar the field crops of Sarai forest village were washed away by a flood in the Nerbada but no serious damage was noticed to forest growth.
- 31. Wild animals.—The damage to young crops both in plantations and naturally regenerated coupes is being more and more forcibly brought to notice. Chital, bison and sambhar are the principal culprits but all deer are destructive. The position has in a few places become really serious and forest officers

now realise that the only solution is to control the deer by reducing their numbers or by adequate fences. Steps to reduce numbers in remote forests have nowhere been successful, and a cheap deerproof fence has yet to be devised. It is probable that in some important forests, Government will have to be asked to reconsider its policy as regards game preservation.

- 32. Insects.—A sporadic attack by the borer (Hoplocerambyx Spinicornis) was observed in the Mandla division and trap tree operations were started as usual at the beginning of the monsoon but as it soon became apparent that the attack was nominal the operation was discontinued. Over 14,000 beetles were caught in the Mandla and Raipur divisions. Some trees in the Murwara Range of Jubbulpore were also attacked by sal borers. These were felled and burnt. Teak defoliation was severe in the Western Circle, the worst attack being in Sembadoh and Khandu Ranges of Amraoti, Bori Special Teak Working Circle and South Denwa High Forest Felling Series of Sohagpur Range of Hoshangabad. An attack of the teak defoliator was also noticed in the Chhapara Range of Seoni, the whole of Sillewani Range and a large area of Ambara Range of Chhindwara, round about Garpit in the Arvi of Nagpur-Wardha, in Range Allapilli and Sironcha Ranges of South Chanda and in the Dhanwahi Range of Jubbulpore. An attack of leaf defoliator on sal was noticed near Muki in the Balaghat division. Many young teak and other smooth barked species, such as Kydia calycina, Eugenia cumini and Emblica officinatis were attacked seriously by a borer in the western parts of Hoshangabad. The borer was identified by the Entomologist, Dehra-Dun, as the larva of Indarbala tetraonis, which eats the bark and makes short shelter tunnels in the pith of stems and branches. The babul borer C. scabrata, continues to be troublesome in babul bans. Damage to Semal trees by borers was noticed in the Dhaba Range in South Chanda. Trees, so killed, were felled and burnt.
- 33. Fungus.—Damage by Fomes pappianus continues as usual in the older babul bans in the West Berar division. A large number of bamboo clumps in the Chaka and Patur plantations of West Berar developed very thick growth of leaves like a 'wirch's broom' which appears to be spreading to other culms in the same and adjoining clumps. The disease appears to dry and ultimately kill the culm. Specimens were sent to Dehra Dun for identification and the Forest Botanist reports that damage is caused by a fungus of a parasitic nature not identified and recommends burning of the affected culms.
- 34. Lantana.—The eradication of lantana was continued in the Amraoti, Betul, Hoshangabad, Seoni, Bhandara and Jubbulpore divisions at a cost of Rs. 3,518. In the Bhandara division efforts were made through the revenue authorities to get this weed exterminated in the malguzari areas and adjoining reserved forests but they have met with only partial success.
- 35. Gokhru or Audhi (Xanthium strumarium) Bathurst's burr.—Uprooting of this weed was carried out in the Seoni and Mandla divisions at a cost of Rs. 204. This pest is also spreading rapidly in the Jubbulpore and Dhanwahi Ranges.

- 36. Loranthus.—This was commonly observed in many divisions in poorer areas and mostly on miscellaneous species such as mahua, achar and tendu trees. In the Seoni division efforts were made to eliminate such trees in the course of fellings.
- 37. Other noxious weeds.—In the Nagpur-Wardha division serious infestations of two American weeds Lagasca-mollis and Hyptis suaveolens occur in coupes as soon as they are opened up in Arvi, Hingni and the south of Kondhali Ranges. Control measures are being studied.
- 38. Climber cutting.—Climber cutting operations were undertaken over an area of 151,954 acres in all divisions at a cost of Rs. 9,615 (Rs. 8,792). In addition a large number of climbers were cut by Forest Guards in the course of patrol work and during marking operations.

CHAPTER III.—SILVICULTURE

I.—FORMATION AND REGENERATION OF FORESTS

- 39. (i) General progress of areas under regeneration.—The general progress is reported to be satisfactory in all forests. Owing to a shortage of rainfall and prolonged periods of drought during the monsoon, growth was somewhat slow. For the third year in succession no frost was experienced and the general progress of the young crops is everywhere most striking.
- (a) Teak forests.—Moist type.—Natural regeneration in the moist teak forests, particularly those of Allapilli continues to be unsatisfactory. The exploited areas are, therefore, being restocked by planting. Plate I gives a general view of the fine Allapilli forests. In Bori, attempts are still being made to regenerate the forests naturally though here also a beginning has been made to plant up suitable areas where experience has shown that natural regeneration is not likely to succeed; elsewhere, in frost-liable areas clear fellings have been replaced by more conservative selection-cum-improvement fellings. Besides frost, bamboo regrowth is the most formidable obstacle in the way of teak coppice, particularly the comparatively less vigorous coppice from suppressed advanced growth and very old stumps. Observations show that the bamboo menace can be successfully combatted by felling and burning the bamboo a year or more in advance of the main fellings, cutting the regrowth along with the tree crop and burning the felling debris, and then removing all culms interfering with teak coppice for a year or two. The total cost is nealy Rs. 6 per acre which is not heavy. Plate II shows a part of compartment 20 worked in this way (Hoshangabad). Plate III gives a general view of the Bori forests before felling.
- (b) Dry type.—In the drier teak forests, any paucity of teak regeneration appears to be primarily due to lack of sufficient soil moisture, adequate shelter to the seedlings and severe competition with grass and weeds. Heavy grazing and frequent fires are contributory factors. In consequence, attempts are mainly directed at controlling grazing, namely, reducing the incidence and periodically closing the areas to grazing, ensuing better

protection against fires and retaining sufficient cover to conserve the soil moisture. In very open forests no fellings are carried out in order not to interfere with the natural process of filling up.

- 40. Generally the dry forests worked in the past have regenerated satisfactorily. The new crops contain a very much higher percentage of well grown teak though fewer plants of miscellaneous species of economic importance, such as dhaora, tinsa, shisham and bija. Judged from the financial point of view the forests have greatly improved in value and silviculturally so far there is no indication that there has been any set-back in the quality of locality.
- 41. In the Melghat forests, lantana is the main obstacle in the way of regeneration. So far no method of successfully regenerating these areas naturally has been found. Burning the shrub for 3 years in succession prior to main fellings has however given encouraging results. In certain Berar forests, browsing by game and wild cattle is an important factor militating against regeneration. Observations in the Phiski reserve where chital and blue bull were allowed to be destroyed show that damage to regeneration has decreased considerably. The climber mahul is a serious pest in certain parts where it comes up in great profusion following clear fellings and then does considerable damage unless the forest is continuously tended. Experiments are in progress to find out the best method of eradicating this pest or minimising its ravages.
- 42. Sal forests.—In general two distinct types of sal forests may be distinguished—the high level sal and the low level sal. The former are found in moister regions, at high elevations where frosts occur frequently; the latter in comparatively dry localities in the plains which rarely experience frost.
- (a) High level sal.—In this type the main impediments to young growth are frost, regrowth of bamboos, rank grass, weeds, climbers and browsing by game. As a rule there is no dearth of advance growth in the bushy stage, or of annual recruitment. Its progress towards establishment is extremely slow, with the result that when the overwood has become due for felling most of the reproduction is in a moribund or unestablished condition. Clear fellings result in the young crop being frosted, and if not killed back, becoming malformed, developing a stag-headed low crown and profuse epicormic branches on the bole. Even where frost damage is averted browsers play havoc with the young succulent shoots and later bamboos and climbers, such as mahul and Ichnocarpus, completely suppress or strangle promising poles. Experience has shown that where frost is a serious factor, clear fellings are impossible. The retention of a shelter-wood minimises the damage and the optimum kind and degree of shade needed are being determined. Fencing against browsers has definitely been found advantageous and attempts are being made to find out the cheapest method of fencing.
- (b) Low level sal.—In this drier type occuring in the plains, severe frost is practically unknown. Occasional mild frosts are experienced, but these do not result in widespread damage.

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医流流分析 医多种性

PLATE II.—NATURAL (COPPICE) REGENERATION OF TEAK IN BAMBOO INFESTED BORI FORESTS, COMPARTMENT 20

Bamboos were felled and burnt a year in advance of clear-fellings and again along with the main crop. Note how the vigorous teak coppice is ahead of the bamboo regrowth, which will be again cut back should it threaten the teak. Total cost of cutting bamboos until teak is established is estimated at Rs. 6 per acre.



Here clear fellings have given very satisfactory results, such as in the forests round about Sitanadi in Raipur. Results are even better if the bushy regeneration is cut back in advance of main fellings. Here the bamboo is not aggressive but on the other hand hot weather fires are very frequent and severe owing to the presence of rank grass. Controlled rains grazing by cows has given very encouraging results.

- 43. Mixed forests.—The general progress of regeneration was satisfactory except in the understocked and open forests, especially when protection from fires has been inadequate. Of the important species, saj, shisham, tinsa, suriya, and bhirra regenerate satisfactorily but not so bija, semal and dhaora, all of which are browsed, and somewhat slow growing. Regeneration of salai, which is not readily marketable from certain forests, is conspicuous by its absence. The exact reason for this remains to be determined.
- 44. Artificial regeneration is mostly confined to teak in areas where the species can grow, and to habul, khair, prosopis, and certain other miscellaneous species in the agri-silvicultural plantations of Berar.
- 45. Teak plantations.—In Bilaspur 20 acres in Tenduchun felling series and 100 acres in compartments 308 and 309 were planted, 12' × 12', at a cost of Rs. 4-10-0 per acre. In south Chanda 270 acres in Allapilli range and 13½ acres in Pedigundam range were similarly planted. Besides these areas, small areas were planted in North Chanda, Saugor and several other divisions mostly as experimental measures.

The planting espacement of 12' × 12' which was originally considered suitable has not given altogether satisfactory results and experiments are shortly to be initiated to see if somewhat closer planting gives better results. Experiments are also in hand to find out what modifications are needed in the present nursery practice to raise better stock at a cheaper cost, such as manuring of beds, closer pricking of germinating seed, earlier sowings, etc.

46. Agri-silviculture.—Routine agri-silvicultural operations are in progress only in the Western Circle, chiefly in Yeotmal. West Berar and Amraoti. In the babul working circles of Amraoti and West Berar divisions, 1,611 acres were under regeneration at the beginning of the year, to which 314 acres were added during the year. Of these, 222 acres being fully stocked were resumed leaving an area of 1,703 acres under regeneration at the close of the year. These operations have lost their former popularity in the West Berar division chiefly because land for permanent cultivation is readily available, and cotton prices have declined. Experience has shown that the exotic prosopis juliflora (Australian variety) is a very suitable species for poor soils. It germinates well, grows very fast and above all is not browsed. The wood is expected to sell as fuel. Of the local species khair has done well on poor soils. For better soils babul and siwan have been found quite suitable except that the latter species requires protection against browsing.

In Yeotmal division 120 acres near Borwadi were sown with teak and other species. Owing to prolonged breaks in the monsoon the results were not very satisfactory. In the new set of Pandhardevi plots the first field crop harvested during the year was a bumper one.

Besides these routine agri-silvicultural plantings, attempts were made in several Central Provinces divisions under instructions from Government to see if agri-silvicultural work similar to Berar could be started chiefly with a view to relieve unemployment. The results were not very encouraging.

- (ii) Afforestation.—The Nagpur seminary hill plantation of 185.19 acres was declared reserved forest from 1st October 1939 and added to the Nagpur-Wardha division.
- (iii) Plantation and other forms of regeneration not under plans or schemes.—Several small scale experiments were continued in various divisions mostly to study if teak planting on a divisional scale is feasible, if agri-silvicultural plantations can be raised, and to improve the existing nursery and planting technique. Some attempts were also made to raise sahai grass plantations.
- (iv) Tending.—This comprises weeding, clearings, climber cutting and thinnings. These operations were carried out as far as funds permitted. The details are given under the next section.

II.—Tending of the Growing Stock

47. The subjoined statement shows the work done during the year 1939-40.

Operations		Area in acres	Cost	C	Cost	per re	Revenue from sold material		eve pe acr	
(1)		(2)	(3)		(4	()	(5)		(6	6)
Eastern Circle.			Rs.	TR 4		. p.	Rs.	Re	. a.	n
Thinnings . Cutting back operations .		8,083 16,987	3,592 4,381	0	7 4	1	12,816 1,776	0	9	4 8
Total Eastern Circle .		25,070	7,973	0	5	1	14,592	0	9	3
Central Circle										
Cutting back operations .	a-	20,460 4,660 1,780 10,750	14,872 848 1,502 4,889	0 0 0 0	11 2 13 7	8 3 6 3	1,23,475 26 268 25,345	6 0 0 2	0 0 2 5	7 1 5 9
Total Central Circle .		37,650	22,111	0	8	11	1,49,114	3	15	4
Western Circle.										
Thinnings Cutting back operations	•	58,242 37,171	51,518 5,814	0	14	6	1,27,422 3,403	2 0	3	0 6
Total Western Circle		95,413	57,332	0	9	7	1,30,825	1	5	!!
Grand Total	. •	158,133	87,416	0	8	10	2,94,531	ī	13	0

Tending is an essential operation of forest conservancy; the small revenue is incidental. The amount made available for tending is still very inadequate and an increased allotment will go far in realising the potentialities of the forests.

III.—SILVICULTURAL RESEARCH

48. This is fully dealt with in the report issued by the Silviculturist. The important features are summarized below:—

Collection of price increment data for teak.—The field work, as detailed below, was completed and the data were sent to the Forest Research Institute for computation.

(1) Number of trees measured for standard volume and commercial outturn data in 10' height classes and 2" diameter classes.

1,221

(2) Number of stumps analysed in 10 year age classes and 2" stump-radius classes. 528

- (3) Price data for --
 - (i) Rough squares and round timber in 3' length classes and 6" midgirth classes.

For most of the timber sold at the Government depots in the Western Circle

- (ii) Sawn timber in local standard classes.
- 49. Pasture improvement investigation.—One hundred 0.1 acre square plots in pasture land, and 25 in a grass reserve were sampled in detail to assess the trend of variation. In each plot, 5 randomly selected quadrats, 6.6' × 6.6', were laid out and the herbage assessed by recording—
 - (1) the density of stocking (4 classes).
 - (2) ocular estimate of the percentage area occupied by each type of herbage (into 3 main classes, and by species for important fodder grasses).
 - (3) average height of various types of grasses.
 - (4) green weight of each type of herbage.

The results were analysed to determine the optimum size of a sampling unit, the extent of sampling necessary, and the minimum size of blocks required to assess the results of various treatments.

The analysis has shown that the sampling was inadequate and must be increased to 25 per cent, when assessment must be made not only on $6.6' \times 6.6'$ quadrats but also on quadrats 4/9th and 1/9th this size to determine which is nearer the optimum size. A most gratifying fact that the data have shown is that ocular estimates give as reliable results as actual weighments and therefore the latter can be dispensed with. This will considerably simplify the work.

50. Thinnings in garari.—This is a valuable species fetching a good price as a pole. Sample plots laid out in 1925 and measured periodically indicate that the most paying method of management might be to leave coppice clumps unthinned or only partially thinned until about one-third of the stems have attained a diameter of 4" or more; then to carry out a crown thinning, exploiting these larger stems at their maximum value, retaining the remainder until a majority of the stems have reached the best exploitable size namely, 4" to 6" diameter. The analysis also indicates that the assumed rotation of 40 years for this species is probably too short. To confirm these indications the experiment is to be repeated.

CHAPTER IV.—EXPLOITATION

I. Systems of management

51. Major forest produce.—The extent to which forests were worked under the various systems of management is shown below:—

(1) High forest systems.

	Area worked in acres.		
		in acies.	
(i) Clear fellings		532	
(ii) Regeneration fellings		24,979	
(iii) Selection fellings	••	2,381	
(iv) Improvement fellings		42,330	
(v) Thinnings		64,374	
(vi) High forest with reserves		460	
(2) Coppice with standards.			
(i) Main fellings		31,153	
(ii) Thinnings	••	8,974	
(3) Coppice with reserves.(i) Main fellings(ii) Thinnings	••	15,343 1,451	
(4) Simple coppice system.		_	
(i) Main fellings		23,827	
(ii) Thinnings	••	3,977	
Total 1939-40		2,19,781	
Total 1938-39		2,05,680	
Difference		+14,101	

The total area worked during the year increased by 14,101 acres mainly due to larger areas thinned during the year in Raipur, South Chanda and Nimar according to the prescriptions of the

Working Plans and more main fellings in Seoni, Chhindwara and Saugor under the various coppice systems. The decrease under regeneration fellings in Chhindwara, South Chanda and Mandla and under 'Improvement fellings' in Amraoti, Nimar, Betul, Mandla and Balaghat is due to variations in the areas of coupes and to failure of demand in certain coupes.

- 52. Unregulated fellings.—The revenue from these operations rose by Rs. 16,088 to Rs. 90,496 mainly due to an increased outturn of semal trees and better prices obtained therefrom in the North Chanda division. Most of these unregulated fellings are made in forest village areas and are partly regulated by felling schemes. In the Mandla division mature and overmature sal trees were removed from such areas and the material converted into sleepers.
- 53. Minor forest produce.—The following statement compares the value of minor produce (excluding grazing) removed from the forest during the current and preceding years:—

Kind of produce	1938-39	1939-40	Difference	
		Rs.	Rs.	Rs.
Bamboos	• •	2,48,386	2,90,766	+42,380
Lac	•••	10,398	15,088	+4,690
Нагга		17, 177	20,965	+3,788
Grass		1,63,962	1,43,503	20,459
Kullu and other gums	• •	9,363	10,523	+1,160
Minerals		24, 893	25,950	+1,057
Tendu leaves	• •	50,626	62,747	+12,121
Other minor produce	• •	84, 237	85,329	+1.092
Tot	al	6,09,042	6,54,871	+45,829
	- •			

Bamboos.—There was a general increase in all Circles but mainly in the Eastern Circle (+Rs. 21,866) due to expansion of departmental bamboo operations in Bilaspur and also to improvement of demand in most divisions.

Lac.—Better outturn and improved rates account for the increase.

Harra.—The increase is due to better prices obtained in Raipur and recovery of two instalments of harra lease in Jub-bulpore.

Grass.—The excellent Karbi crop during the year mainly accounts for the fall—the heaviest being in the Western Circle (-Rs. 13,869).

Kulloo and other gums.—The increase is due to better prices obtained in Yeotmal.

Minerals.—The increase is due to more extraction of minerals by local bodies and the Public Works Department in Saugor division.

Tendu leaves.—The increase is due to better prices obtained in North Chanda, Chhindwara, Nagpur-Wardha and Raipur. In the Western Circle a fall of Rs. 2,909 is due to lack of competition in Betul and late sales in Nimar.

Other minor produce.—The increase being small calls for no explanation.

- 54. Grazing.—Last year's report gives an exhaustive exposition of the policy of Government in the matter of grazing in reserved forests and also the extent of the various concessions and facilities afforded by the Department to the general public in this connection. It does not seem necessary to repeat it in the current year's report. The change in the grazing year from 1st July to 1st April, however, is giving a number of administrative difficulties and in spite of the period of issue of grazing licences having been extended under the new rules, agriculturists will not purchase licences in time. Extensions have had to be granted in a number of cases beyond 30th June 1939 partly due to the unwillingness of the people to purchase licences before the commencement of the rains and partly to the late break of monsoon and consequent scarcity declared in certain districts. The whole question is before the Government and final orders in the matter are likely to be passed after another year's experience.
- 55. The following statement shows the total number of animals grazed during the year as compared with the previous year:—

Year	Buffaloes	Cows and bulls	Goats	Sheep	Other animals
(1)	(2)	(3)	(4)	(5)	(6)
1938-39	3,14,358	2,514,312	181,504	86,383	6,380
1939-40	2,95,933	2,424,668	168,765	84,651	3,918
Difference	18,425	- 89,644	- 12,739	- 1,732	- 2,462
Year	Total animals	Value at full rates	Revenue actually realized	Value of free grazing	Value of concessions
(1)	(7)	(8)	(9)	(10)	(11)
		Rs.	Rs.	Rs.	Rs.
1938 39	3,102,937	25,00,249	10,47,738	1,70,455	12,82,056
1939-40	2,977,935	24,01,651	9,87,318	1,69,806	12,44,527
Difference	1,25,002	-98,598	-60,420	-649	<u>-37,529</u>

During the year there was a general decrease in the number of animals resorting to Government forests for grazing as well as in the receipts. The Western and the Central Circles are mainly responsible for the fall which is attributed to—

- (i) heavy mortality amongst cattle due to late rains and scanty fodder;
- (ii) poverty of the agriculturists due to general economic depression;

- (iii) wide-spread scarcity conditions in August 1939 due to a long break in the rains in July and August 1939; and
- (iv) Migratory habits of Bhangi dangars who own large flocks of sheep and goats.

The decrease in the number of cattle grazed was highest in Yeotmal (36,000) followed by West Berar (29,000) and Nimar (19,000).

- 56. In addition to the revenue of Rs. 9,87,318 obtained from grazing, Rs. 36,324 were realized as dues on 359,736 cattle covered by transit passes against Rs. 34,904 last year. A sum of Rs. 11,902 was also realized on account of deferred grazing dues and short recovery of grazing fees.
- 57. The value of grazing concessions allowed to agriculturists amounted to Rs. 12,44,527 (Rs. 12,82,056).
- 58. The collection of grazing dues was deferred in Yeotmal, West Berar, the Berar Ranges of the old Amraoti and Berar portion of the old Melghat divisions and passes worth Rs. 2,93,092 were issued. Of this, Rs. 2,79,720 were recovered leaving Rs. 13,372 outstanding at the close of the year.

Deferred grazing to the extent of Rs. 524 was also allowed in the Murwara and Jubbulpore Ranges of the Jubbulpore division.

II. AGENCY OF EXPLOITATION

(i) Departmental Agency.

59. Major produce.—The outturn of timber and fuel compares as follows with that of the previous year:—

Cubic feet in thousands

			A	
Year	•	 Timber	Fuel	Total
1939-40 1938-39	• •	5,775 5,516	8,009 7,07 6	13,784 12,592
Difference		+259	+933	+1,192

Timber.—The Central and Western Circles show increases of 267,000 and 268,000 cubic feet of timber respectively, due mainly to more coupes having been worked departmentally during the year; while the Eastern Circle shows a tall of 276,000 cubic feet which is attributed to the decrease in the outturn of timber in Bilaspur due to many of the coupes being of poorer quality than last year.

Fuel.—The increase under fuel is also shared by the Central and Western Circles and is due to more coupes having been felled departmentally and better outturn obtained therefrom. In the Eastern Circle a small decrease of 43,000 cubic feet is due to less quantity of firewood obtained in cutting bank operations and other cultural operations in the Mandla and Bilaspur divisions.

60. Allapilli.—During the year 176,418 (254,670) cubic feet of timber in the round and sawn were transported to Ballarshah in lorries from the Allapilli depot and sawnill. In addition 71,095 cubic feet (49,893 cubic feet) of logs and poles of teak and other species were also transported by carts from Allapilli forest depot and the forests of Pedigundam, Dhaba and Markhanda Ranges. The transport contract given to the Ballarshah Motor Transport Syndicate and Mr. Tilley Ramchandra Kanoje expired during the year under report. A fresh contract has been given to the Indian Agencies, for three years expiring on 31st October 1942 at much cheaper rates. The main condition of the contract is that they should transport timber by vehicles fitted with producer gas plant. As the new contractors started their work very late in the season, bullock carts had to be engaged for transporting some portion of the log timber from the Allapilli forests and the depot to supply material for the Ballarshah auctions.

The average sale price of teak logs and other logs and poles increased by Re. 0-2-4 and Re. 0-1-9 per cubic foot to Rs. 1-5-7 and Re. 0-11-1 per cubic foot respectively, while that of the sawn timber including mill waste slightly decreased by Re. 0-0-5 to Rs. 1-15-9 per cubic foot. The total receipts from sales at Ballarshah, Allapilli and Pedigundam amounted to Rs. 4,41,721 (Rs. 3,90,094). The increase is due to better prices obtained for

teak logs at Ballarshah.

The audited commercial accounts for 1939-40 show a profit of

Rs. 2,14,734 (Rs. 1,49,107).

The saw mill at Allapilli worked for 305 (307) days and turned out 100,175 (103,082) cubic feet of timber or an average of 328 cubic feet per day against 336 last year. The fall in the outturn is due partly to the closing of the mill for two days on account of the breakage of underground shafting and partly to special indents undertaken for the Gun Carriage Factory. The milling costs increased from Re. 0-3-1 per cubic foot to Re. 0-3-11 per cubic foot of outturn. Receipts from sales of sawn timber at Ballarshah and Allapilli amounted to Rs. 1,48,734 (Rs. 1,52,378) on which direct expenditure incurred amounted to Rs. 38,801 (Rs. 41,785).

61. Sleeper operations.—The number of sal sleepers supplied to the Eastern Railway Group from the Mandla, Balaghat, Raipur and Bilaspur divisions was 25,137 (28,315) broad gauge, 36,332 (31,644) metre gauge, 32,722 (42,806) narrow gauge, and 7,855 (11,847) specials.

The financial results of the operations are given below: -

Revenue Add value of stock in hand on the 51st March	3,01,475 1,36,81 5
1940. Total Deduct value of stock in hand on the 31st	4,38,290 1,31,654
March 1939. Net revenue Deduct expenditure	3,06,636 1,14,112
Net profit	1,92,524



PLATE IV.—GOVERNMENT SALE DEPOT AT TAKU, GREAT INDIAN PENINSULA RAILWAY (HOSHANGABAD)

The adze-fashioned stacked timber in the background and the logs in the foreground are of teak from Bori, reputed for their ornamental grain: the row of poles in the centre are of tinsa which fetch an equally high price.

The adve-folding desired in the Lecture and and the logain the foregoined are of teak from Rein reputed for their enamental grain; the row of poles in the centre are of here which letch an equally high price HOME H. GOVERNAMER SALE DITOR METALLI, CREAT TRACK TON THE COMPANY OF ANY METALLINE.

In addition to the above, 8,871 rejected sleepers were sold for Rs. 6,368 and 8,973 half round sleepers and 42 timber girders were supplied to the Raipur Forest Tramway for Rs. 3,101.

- 62. Sal scantlings.—In all 82,450 (83,871) cubic feet of scantlings were prepared in the Mandla, Balaghat, Raipur and Bilaspur divisions of which 79,994 cubic feet were sold for Rs. 71,103.
- 63. Revenue realized and remitted through the sales agent at Raipur amounted to Rs. 85,066 (Rs. 82,214). During the year a contract for 40 wagons of scantlings was secured through the sales agent with a merchant of Chicacole at the existing rates less a rebate of Re. 0-1-6 per cubic foot. The question of running the depot departmentally is still under the consideration of Government.
- 64. The volume of teak timber dealt with at departmental sale depots in the Hoshangabad, Amraoti and Nimar divisions increased from 627,404 to 737,708 cubic feet and the gross revenue from Rs. 5,54,381 to Rs. 5,96,854 due to improved prices obtained in Amraoti on account of better condition in Berar. A fall in receipts in Hoshangabad is due mainly to the changes in the working of Bori reserve ordered by the Chief Conservator of Forests. Plate IV shows a general view of the Government sale depôt at Taku.
- 65. Minor produce—The value of minor produce extracted rose from Rs. 43,063 to Rs. 60,628 due mainly to departmental collection and sale of bamboos in Bilaspur.

(ii) Purchasers.

66. Major produce.—The outturn of the year compares as follows with that of the previous year:—

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Year		Timber	Fuel	Total
1939-40 1938-39	••	6,154 5,617	24,004 22,484	30,158 28,101
Difference	• •	+537	+1,520	+2,057

Timber.—All circles are responsible for the increase the largest being in the Eastern Circle (+414,000 cubic feet) due mainly to the sale of more coupes than last year.

Fuel.—The Eastern and Western Circles show increases of 1,549,000 and 267,000 cubic feet respectively due to the reasons explained above, while the Central Circle shows a decrease of 296,000 cubic feet on account of smaller areas having come up for exploitation and also to less yield during the year.

67. Minor produce.—The value of minor produce extracted during the year again fell from Rs. 16,08,613 to Rs. 15,71,231 mainly due to less number of cattle having resorted to Government Forests for grazing as explained in earlier sections.

68. Rights, privileges and free grants.—The quantity and value of forest produce removed free by right holders, concessionaires and free grantees is shown below:—

.		193	38-39	1939-40		
Produce		C.ft. in thousands	Value	C.ft. in thousands	Value	
	·:.		Rs.		Rs.	
R ight holders in Berar-						
Major produce—						
Timber	••	• •	••			
Fuel	••	118	3,602	118	3,602	
Minor produce						
Grazing			375	••	375	
Miscellaneous	••	••	2,400	• •	2,400	
Total	••	118	6,377	118	6,377	
Concession: -						
Major produce—						
Timber		4	2,096	5	3,369	
Fuel		1,218	8.126	623	3,378	
Minor produce-						
Bamboos	••	••	••		••	
Grass	••			••		
Grazing		••	12,82,056	••	12.44,527	
Miscellaneous	••	••	••	••	• •	
Total	••	1,222	12,92,278	628	12,51,274	
Free Grants—						
Major produce-						
Timber		382	37,971	372	30,341	
Fuel	••	1,060	19,161	1,080	24,786	
Minor produce-						
Bamboos	••	• •	11,172		10,818	
Grass	••	••	13,704	• •	20,032	
Grazing	••	••	1,70,080	• •	1,69,431	
Miscellaneous	••	••	20,443	••	25,306	
Total		1,442	2,72,531	1,452	2,80,714	

- 69. Free grazing.—This is allowed to forest villagers at the rate of eight bulls, bullocks or cows per holding, and four bulls, bullocks or cows to a labourer without a holding. In Berar a tree allowance in C class of one bullock for every eight acres of cultivation is given to each cultivator. The value of these concessions and of free grazing during the year amounted to Rs. 14,13,958 (Rs. 14,52,136).
- 70. The Chanda Match Works were again granted a concession of 250 semal trees on payment of half royalty rate, viz., Rs. 3-13-0 per tree.
- 71. In addition to the usual free grants made to forest villagers and subordinates for bona fide domestic requirements and to the public in cases of destruction of houses by fire, an exceptional free grant of timber fuel and bamboos to the value of Rs. 2,440 was made for the construction of 12 vidya mandirs.
- 72. As a measure of relief to agriculturists and other persons and also on account of the partial scarcity declared in certain parts of the province as a result of the scanty rain during July and August 1939, the following concessions were also sanctioned by Government during the year:—
 - (i) free extraction of fuel and grass by head loads.
 - (ii) free extraction of grass from localities where the demand is small.
 - (iii) free removal of mohwa, achar, tendu, aonla, edible roots and tubers in the backward tracts of the province.

The value of such grants amounted to Rs. 23,572.

73. Outturn and sources of forest produce.—The total quantity and value of major and minor produce extracted by all agencies is shown below:—

Produce		Cubic feet n thousands	Value
	•	n thousands	Rs.
Major produce— Timber Fuel	••	12,301 33,211	24,32,709 6,17,996
Total	••	45,512	30,50,705
Minor produce—			
Bamboos		• •	2,90,766
Grass		• •	1,43,503
Grazing		••	24,49,877
Other minor produce	••	• •	2,20,602
Total		••	31,04,748
Grand total 1939-40	••	• •	61,55,453
Grand total 1938-39	••	• •	61,10,005

CHAPTER V.—FINANCIAL RESULTS

74. Revenue.—The year under report was marked by an increase in gross revenue and in the net surplus. Total receipts rose from Rs. 48,68,288 to Rs. 50,43,788 or by Rs. 1,75,500. The increase being shared by the Eastern Circle (Rs. 82,488), Central Circle (Rs. 88,144), and Raipur Forest Tramway (Rs. 32,912). The Western Circle was responsible for a decrease of Rs. 26,362.

The increase in the Eastern Circle is due to better prices obtained at the annual auctions and the recovery of kists in advance in certain divisions, larger number of sleepers supplied to the Railways and expansion of departmental bamboo operations in the Bilaspur division. The increase in the Central Circle is due to better prices obtained at Allapilli and Ballarshah for logs and sawn timber and for the sale of standing coupes, bamboos, lac, etc., in the Western Circle, the decrease is due to a fall in the grazing revenue, on account of heavy mortality amongst cattle, economic depression, a prolonged break of rains in July and August, free grants of forest produce as scarcity measures and heavy outstanding of revenue in timber depots The matter is of no significance.

1020 20

1020 40

The sources of revenue were:-

		1938-39	1939-40
		Rs.	Rs.
Departmental agency	• •	17,88,335	19,19,663
Purchasers	* *	27,06,693	27,11,626
Miscellaneous	• •	2,09.498	2,15,592
Leased forests	• •	6,703	6,936
Raipur Forest Tramway	• •	1,57,059	1,89,971
7	otal	48,68,288	50,43,788
While classification by pa	roduce show	rs :	
		1938-39	939-40
		Rs.	Rs.
Timber		22,85,658	24,10,977
Fuel	• •	5,48,712	5,75,647
Bamboos	• •	2,26,772	2,71,973
Grazing and fodder grass		11,95,100	11,20,095
Other produce		2,08,005	2,54,637
Miscellaneous		2,40,279	2,13,552
Leased forests		6,703	6,936
Raipur Forest Tramway		1,57,059	1,89,971
	Total	. 48,68,288	50,43,788

	Expenditure.—The	figures	compare	with	those	of	last
year as	follows:—						

		1938-39		1939-40				
	A.—Con- B.—Estab- servancy lishment		Total	A.—Con- servancy	B.—Esta- blishment	Total		
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
Eastern Cir-	3,90,438	6,15,433	10,05,871	3,90,201	6,10,349	10.00,550		
Central Cir-	3,46,397	4,84,317	8,30,714	3,28,809	5, 0 0,645	8,29,454		
cle. Western Cir-	5,33,050	6,09,978	11,43,028	5,82,638	6,40,272	12,22,910		
cle. Raipur Forest	1,30,299	••	1,30,299	1,31,227	••	1,31,227		
Tramway. General Direction Division.	575	2,23,620	2,24,195	637	2,18,033	2,18,670		
Loss by ex- change,	••	483	483	• •	280	280		
Interest on	72,091	••	72,091	71,953	• •	71,953		
capital. Charges in England.	••	81,484	81,484	••	61,537	61,537		
Total	14,72,850	20,15,315	34, 88, 165	15,05,465	20,31,116	35,36,581		

Under A (Works), expenditure rose by Rs. 32,615 mainly due to the expansion of Departmental operations in the Western Circle.

Under B (Establishment), the expenditure increased by Rs. 15,801 due to the increase of Re. 1 per mensem in the initial pay of Forest Guards.

- 76. Surplus.—The cash surplus rose appreciably by Rs. 1,27,083 to Rs. 15,07,207 (Rs. 13,80,123) which is the highest figure registered since 1930-31. This result was obtained only by effecting every possible economy in expenditure. I must repeat the opinion of my predecessor that the curtailment of expenditure has passed the safety limit especially expenditure on development. We may get improved finances by a fortuitous rise in prices but we can expect no real progress unless Government invests more money in its forests.
- 77. The value of stock remaining unsold at the close of the year was Rs. 7,24,023 against Rs. 7,00,787 of the previous year.
- 78. The value of live and dead stock allowing for depreciation rose by Rs. 15,575 to Rs. 10,95,859; the increase is due to the value of buildings in the Balaghat division having been recalculated as the value given previously was incorrect.

CHAPTER VI.—RESEARCH AND EXPERIMENTS

- 79. A report on these subjects by the Silviculturist is published separately.
- 80. Experiments for the improvement of pasture have been dealt with in Chapter III.

CHAPTER VII.—ADMINISTRATION

- 81. Mr. C. E. C. Cox, C.I.E., continued to hold the post of the Chief Conservator of Forests from the commencement of the year to the 9th October 1939, when he proceeded on leave preparatory to retirement and was succeeded by the writer of the report, who remained in charge until the close of the year.
 - 82. The Circle charges were held as under:
 - (i) Eastern Circle-Mr. H. C. B. Jollye, Conservator of Forests, from the 1st April 1939 to the 6th April 1939.
 - Mr. V. K. Maitland, officiating Conservator of Forests, from the 7th April 1939 to the 31st March 1940.
 - (ii) Central Circle—Mr. H. S. George, Conservator of Forests, from the 1st April 1939 to the 31st March 1940.
 - (iii) Western Circle—Mr. C. M. Harlow, Conservator of Forests, from the 1st April 1939 to the 7th October 1939.
 - Mr. H. C. B. Jollye, Conservator of Forests, from the 8th October 1939 to the 31st March 1940.
- Mr. K. P. Sagreiya, Deputy Conservator of Forests, and Khan Bahadur S. R. Daver, Extra-Assistant Conservator of Forests, continued to hold the posts of Silviculturist and Forest Utilization Officer, Central Provinces, respectively, throughout the year.

In thirteen divisions there was no change of Divisional Forest Officers, while in six divisions permanent changes took place. The Amraoti and Melghat divisions with adjustments were amalgamated into one division with effect from 1st October 1939 under the name of the Amraoti division reducing the total divisional charges from 19 to 18.

- 83. Indian Forest Service.—Mr. E. L. P. Foster, Deputy Conservator of Forests, continued to be on deputation in the Andamans as Chief Forest Officer. Mr. C. E. C. Cox, Chief Conservator of Forests, was decorated as Companion of the Order of the Indian Empire during the year. He retired from service, with effect from 9th March 1940, after having put in over 32 years of service in the Department.
- 84. Provincial Forest Service.—Mr. K. R. N. Pillai, Extra-Assistant Conservator of Forests, Divisional Forest Officer, Jubbulpore, was decorated as Member of the Order of the British Empire.
- 85. Service of Officers.—Acknowledgment is again due to all Officers who have carried out the work of the Department under increasing difficulties. The staff of Gazetted Officers is now so depleted that a number of divisions where assistants are usually posted are now without them. Increasing office work leaves less and less time for a Forest Officer's real work in his forest. The steady loss of Officers by retirement continues and though two students have been sent to Dehra Dun their services will not be available till 1942.

- 86. Subordinate Forest Service.—The work of the subordinate staff has been generally satisfactory. During the year under report Government was pleased to raise the initial pay of Forest Guards from Rs. 12 to Rs. 13 per mensem but this is still insufficient always to attract the right type of recruits.
- 87. Training.—For the first time since 1929, two candidates were recruited for the new Central Provinces Superior Forest Service through the Public Service Commission and were deputed for training to the Indian Forest College, Dehra Dun, for the year 1940—42.

The two Ranger candidates under training in the Dehra Dun Ranger's Course, 1939—41, are reported to be progressing well.

Of the 50 students who underwent the 1938-39 course of the Forest School, Balaghat, five passed by the Higher Standard with credit, 18 by the Higher Standard, 26 by the Lower Standard and one was removed for a breach of discipline.

The course of 1939-40 also started with 50 students of whom 11 came from Indian States and one was a private student. One student from the Eastern Circle died of rheumatic fever in February 1940 and one student from the Western Circle had to be returned to his division on account of inefficiency. There were thus 48 students at the close of the year. The general standard of the students is reported to be satisfactory.

88. Punishments and casualties.—The table below shows details of casualties and punishment:—

Subordinates	C	iervices lispens- ed with	Dis- missed	Retired	Resign- ed	Died	Total casual- ties	Fines and degrada- tion
Rangers— 1937-38 1938-39 1939-40	•••	;; ;	1 ::	1 3 5	••	1	3 3 8	2
Deputy Rangers— 1937-38 1938-39 1939-40	••	 1	1 3	7 2 9	2	3 3 5	11 9 16	7 2 12
Foresters— 1937-38 1938-39 1939-40	••	:. ! 3	2 4 2	7 5 8	2	3 4	14 15 14	28 35 31
Forest Guards— 1937-38 1938-39 1939-40		106 76 76	34 20 14	51 53 47	52 48 38	42 54 53	285 251 228	267 206 208
C!erks— 1937-38 1938-39 1939-40	••	2 i 4	:: 2	11 23 9	· i	·· 1 3	13 26 18	7 4 11

89. Health.—The general health of the out-door staff during the year was unsatisfactory. Attacks of malaria, influenza, pneumonia and typhoid resulted in the death of two Rangers, five Deputy Rangers, 53 Forest Guards and three clerks and a large number of subordinates have had to go on leave. All Conservators and some Deputy Commissioners have drawn

particular attention to the insufficient funds provided for the construction of quarters and to the grant of bad climate allowance for subordinates serving in unhealthy localities. There is also an urgent necessity for providing a cheap type of dispensary at convenient places. In his inspection notes of the Mandla and Balaghat divisions, His Excellency the Governor of the Central Provinces and Berar has stressed the necessity for providing two cheap-plan dispensaries in the Dindori and Baihar tahsils and proposals are under consideration. Small-pox appeared in an epidemic form in Sohagpur and Bori Ranges of Hoshangabad and parts of Bhawargarh and Asir Ranges of Betul. As a result of mass vaccinations in Hoshangabad casualties were not heavy.

- 90. Criminal misappropriations of forest revenue.—Reference to the misappropriations of forest revenue in the South Chanda division to the extent of Rs. 25,955 was made in the last year's report. The Revenue Accountant Babu Safdar Hussain, who was prosecuted on three defalcation cases, was sentenced to 10 years' rigorous imprisonment in the aggregate but sentences to run for four years concurrently and was ordered to pay a fine of Rs. 700. The appeal preferred by the accused was dismissed by the District and Sessions Judge, Wardha. Two further cases of criminal misappropriation of forest revenue in which Babu V. S. Vatwe, late Head Clerk, and Safdar Hussain, Revenue Accountant, are being jointly prosecuted, are proceeding in the Court of the Sub-Divisional Magistrate, Brahmapuri-Garchiroli. As a result of these misappropriations and on the recommendations of the Accountant-General, Central Provinces, it has been decided to audit the revenue side of the accounts by the staff of the Accountant-General's office.
- 91. Other criminal prosecutions.—One Gazetted Officer, two Rangers, one Forester and one Forest Guard are undergoing prosecution on various counts for offences committed in the South Chanda division.
- 92. Inspection of Divisional Offices.—All divisional offices except Mandla and Raipur were inspected by Conservators during the year.
- 93. Touring.—Touring by Gazetted Officers was generally satisfactory.
- 94. The relations with other departments continued to be cordial.

CHAPTER VIII.—GENERAL

95. Forest villages.—Six new forest villages were established during the year while sixteen were deserted. At the close of the year there were 1,102 (1,113) villages with a population of 118,986 (121,139). One forest village in North Chanda was disforested and handed over to the Revenue Department for management as a rayatwari village. The condition of the forest villages was generally satisfactory. There were complaints of water shortage in Jubbulpore, high land rent in Saugor and lack of medical aid in general.

96. Forest village schools.—Nine new schools were opened during the year. The schools established are functioning satisfactorily. The school building at Nagotar forest village in Nimar division was burnt on 27th December 1939 and the school is now meeting in a hut. The two schools in the West Berar division, one at Bormali and the other at Mandwa run by the district councils, Akola and Buldana, were closed during the year partly owing to inadequate attendance of students and partly because the district councils were reluctant to bear the expense of teachers. The school at Dhain forest village run on the subscriptions of the villagers, ceased to operate as the villagers were dissatisfied with the teacher, and so far they could not get a new teacher. The villagers of Nimghan forest village in Sohagpur range have raised subscriptions for the pay of a teacher to hold a private school in the village. Most of the schools were inspected by the Deputy Inspector of Schools and periodical medical examinations of the children were held by the local medical staff in some of the schools. Jaitpuri school in Balaghat was visited by His Excellency the Governor, Central Provinces and Berar, who was pleased to record a note of appreciation on the progress of the school.

An attempt is being made to revive the handicraft school at Allapilli which was closed down in 1938.

97. The attempts to improve sanitation in the Eastern Circle villages were continued. The efforts to make simple improvement in agriculture were continued. Roads and village lanes were widened, manure pits were started, and the use of cow-dung manure generally extended.

In order to improve water supply in forest village areas two wells were under construction during the year in Mandla Division. Free distribution of quinine was made to several forest villages.

The weekly bazar started at Nagotar forest village in Nimar division is proving a success. Four wells sanctioned by the Provincial Government for construction from the India grant were completed during the year at a cost of Rs. 2,674. During February 1940, a childrens' rally arranged at Aonlia forest village in Nimar division was well attended. The child welfare show was also a success.

- 98. Taccavi.—Advances to the extent of Rs. 1,07,197 were made to forest villagers, recoveries amounted to Rs. 1,21,080 and Rs. 49,924 (Rs. 63,807) remained outstanding. Failure of crops in some divisions and poor economic conditions of the forest villagers mainly account for the large outstandings.
- 99. Malguzari forests.—Twenty-one malguzari forests—ten in the Eastern Circle and eleven in the Western Circle—were placed under special protection while four in the Western Circle were released during the year. In Nimar division two forest guards continued to receive remuneration for watch and ward of Punghat Kalan and Punghat Khurd malguzari forests.

- 100. Elephants.—There were 18 elephants at the close of the year. The general condition of all the elephants was satisfactory. Seven elephants were employed on dragging work in the Allapilli forests and six were employed on lantana eradication, road consolidation and on timber dragging in Hoshangabad and Amraoti divisions.
- 101. Forest rest-houses.—Fees collected for the occupation of forest rest-houses amounted to Rs. 1,525 (Rs. 1,956).
- 102. Arboriculture.—In Saugor mulberry, mango and other trees were widely planted in the compounds of forest staff buildings.
- 103. Patch cultivation.—In Sconi the total area under patch cultivation was 52.51 acres. In Chhindwara 29 persons (30) held land under patch cultivation. Three cultivators died during the year.
- 104. Tassar silk cultivation.—In North Chanda tassar silk cultivation was carried out in Sindewahi and Wairagarh Ranges over an area of 10 (35) and 62 (123.5) acres, respectively. The rent recovered was Rs. 18 (Rs. 39) at Re. 0-4-0 per acre.

The Provincial Government launched a scheme for the development of the tassar industry in the province during the year. A tassar silk supply and research station was opened at Armori in this division. 24 acres of B class forests were cultivated by the Textile Expert to Government, Central Provinces and Berar, for rearing tassar caterpillars with a view to distributing them widely.

In South Chanda tassar silk cultivation was carried out in B class forest of Sironcha and Ghot Ranges. 15.5 acres of land were leased during the year and the revenue realised therefrom amounted to Rs. 15-8-0 (Rs. 9-8-0) at the rate of one rupee per acre.

- 105. Forest grievances.—Complaints brought to the notice of the department received prompt attention. They were chiefly concerned with grazing facilities and requests for culturable lands.
- 106. Forest benevolent fund.—A report on the working of this fund will be found in Appendix A to this report.
- 107. Famine relief work.—The construction of 3 roads mentioned in the last year's report was completed during the year. Due to the long break in the rains in July and August 1939 relief works in the form of construction of new roads, special repairs to existing roads, departmental fellings, thinnings and cutting back operations, etc., were opened in the West Berar division. To relieve distress Government sanctioned free removal of dry fuel and grass by head loads from a number of divisions.
- 108. Mining leases.—In Seoni division a prospecting licence for manganese over an area of 312 acres was granted and a sum of Rs. 234 was realised as surface rent. In Chhindwara 2,006 (1,694) acres were under mining leases and 1,474 (1,400) acres under prospecting licences at the close of the year.

In Bhandara 5 mining leases for manganese covering an area of 203.24 acres were granted during the year. Five prospecting licences for manganese were granted over an area of 286.28 acres.

In Nagpur-Wardha 7 (14) prospecting licences covering an area of 1,055.66 (2,646.98) acres and 4 (2) manganese leases covering an area of 143.41 (274.12) acres were granted.

A prospecting licence for mica over an area of 749 acres in B-I class forest in Ghot Range of South Chanda was granted to the Chanda Mining and Industrial Company, Chanda, for a period of one year from 13th April 1939.

- 109. Forest gardens.—The Karidongri forest garden in Bilaspur was maintained at a cost of Rs 8 (Rs. 16). The revenue derived from this garden was Rs. 60 (Rs. 27). The forest gardens at Kisli in Mandla and Sondhar in Balaghat were closed down under Government orders.
- 110. General.—With a view to accelerate the supply of timber to the Gun Carriage Factory arrangements were made for the visit of Divisional Forest Officers in the Eastern Circle to the Gun Carriage Factory at Jubbulpore, in order to enable them to get in touch with conditions and requirements.

CHAPTER IX.—PRESERVATION OF WILD LIFE

111. The effect of the Central Provinces Game Act, the Wild Birds and Animals Protection Act and the rules under the Indian Forest Act on the fauna of the forests is being closely watched. The object of these Acts and rules is to preserve game but forest officers are finding that the indiscriminate preservation of game and the management of forests under the rules of silviculture are not always compatible. The damage to forests by wild animals is mainly by deer and bison and is usually confined to areas in which young forest crop exist. These animals congregate in young forests, and it is becoming more and more clear that their presence in large numbers in young forests cannot be tolerated. In older forests, deer and bison appear to cause no damgae whatsoever to the standing crop.

The situation is being closely watched, particularly in the sanctuaries formed under the orders of Government.

CLASS I

112. Absolute Sanctuaries—Bori, 61 square miles (Hoshangabad division).—The sanctuary does not contain a large head of game, chiefly because it is very hilly and has a dense bamboo forest. The quality of grazing is poor. Malabar squirrels are plentiful, and Pangolins, a comparatively rare animal in this Province, are met with in this sanctuary.

The Maharaj Kumar Sir Vijaya of Vizianagaram who was granted special permission by Government to shoot 3 tigers in this sanctuary, succeeded in bagging only one.

Taroba, 46 square miles (North Chanda division).—The general condition of game is satisfactory in this sanctuary though poaching, it is suspected, still continues. The relaxation of restrictions for reducing the damage in regeneration areas by chital and other deer, has led to the destruction of eight hinds.

It is still too early to say to what extent the general public welcome the creation of this sanctuary, but there has been some increase in the number of visitors of late. The proposal to erect gates on the Moharli-Khadsingi road on either side of the sanctuary is still under consideration.

Supkhar, 25 square miles and not 158, (Balaghat division).— The condition of game is reported to be satisfactory on the whole. Chital and Barasingha are apparently on the increase. It is estimated that there are about 30 bison in this sanctuary. There has been no increase in the number of tigers during the year and special measures contemplated for their destruction do not seem necessary.

Banjar (Kanha), 99 square miles (Mandla division).—The state of the animals in this sanctuary is satisfactory. Chital, sambhar, bison and wild dogs are reported to be on the increase, while barasingha are apparently on the decrease. Tigers are reported to be stationary. Proposals for the development of this sanctuary into a National Park are still under the consideration of the Government.

CLASS II

113. Reserves where wild life has little or no effect on cultivation.—Game is reported to be on an increase throughout the province. A few cases of cattle-lifting by tigers have been reported from the Western and Eastern Circles specially in Nimar where as many as 62 forest village cattle and 4 men were mauled. Forest Ranger G. P. Tiwari succeeded in destroying a man-eater which was responsible for the death of 6 men in the Kinwat range. The man-eating panther, referred to in the last year's report, which killed a number of children on the borders of Betul and Hoshangabad, is reported to have been shot by a local shikari during November 1939 and human kills have ceased since then.

In the Allapilli block (73 square miles South Chanda Division) the number of bison, sambhar and chital is reported to have increased to such an extent that much damage to plantations has been caused.

A feature of the restoration of class I Fire Protection to the Allapilli block has been the increase in the number of tigers. The result of the benefit these carnivora do to the plantations by checking the increase in horned game will be watched with interest in future years.

CLASS III

114. Reserves which adjoin large cultural areas.—The campaign of unrestricted shooting in the Phiski reserve of the Yeotmal Division has resulted in the destruction of 1 panther, 5 chitals, 36 jackals and 40 pigs. A large number of wild cattle (deogai) and chital found in plentiful numbers in the Bhongaon

reserve of the West Berar Division continue to damage the agrisilvicultural plots and the adjoining fields. The right to catch these wild cattle in this division still continues. 18 cattle were trapped during the year and were auctioned for Rs. 221-8-0 and Government received Rs. 69-4-0 as its share of the sale proceeds.

946 wolves (including 688 cubs) were killed in the Saugor Division and a sum of Rs. 958 was disbursed as rewards by the Revenue authorities.

During the year chital have increased in numbers in the Western Circle especially in Nimar and are reported to be doing considerable damage to young crops and regenerated areas.

Pig and nilgai also damage field crops in many divisions considerably and proposals for unrestricted shooting in reserved forests surrounded on all sides by cultivation, similar to those in force in the Phiski reserve of Yeotmal have been submitted for Government sanction.

115. Poaching.—The number of poaching cases reported during the year compares as follows with those of the last year:—

	1938-3 9	1939-40
Eastern Circle	 36	5 8
Central Circle	 63	70
Western Circle	 28	12

It is satisfactory to note that poaching has appreciably decreased in the Western Circle, while it has increased to some extent in the other two circles. It appears that punishments inflicted on such offence are not deterrent.

CLASS IV

116. Legal Shikar.—The number of shooting permits issued during the year was 448 (468).

The following table shows the number of animals shot by permit holders:—

Saurica			Total in	
Species		1937-38	1938-39	1939-40
Tiger		112	115	93
Panther		72		85
Hyaena		7		ŤŐ
Wild dog		16	26	39
		3 7	29	31
Bison		15	18	10
Blue bull		70	10 i	78
Black buck, Chinkara barking-deer.	and	100	92	91
Barasingha				1
Sambhar			122	107
Chital	• •			iŏ2
Crocodile		6	3	ĩ
Wild pig		768	873	806
	Hyaena Wild dog Bear Bison Blue bull Black buck, Chinkara barking-deer. Barasingha Sambhar Chital	Tiger Panther Hyaena Wild dog Bear Bison Blue bull Black buck, Chinkara and barking-deer. Barasingha Sambhar Chital Crocodile	Tiger	Species 1937-38 1938-39 Tiger

The drop in the number of tiger and other animals killed is probably due to restrictions on leave on account of the war.

C. M. HARLOW,

NAGPUR: The 25th September 1940. Chief Conservator of Forests, Central Provinces and Berar.

APPENDIX A

Annual report of the Central Provinces and Berar Forest Benevolent Fund for the year ending 31st March 1940.

The fund started with an opening balance of Rs. 6,735-0-2 on 1st April 1939 which was held by the various Presidents of the Divisional Committees and the Secretary in the Postal Savings Bank Accounts and the Imperial Bank of India, Nagpur, respectively. In addition to this Government promissory notes to the face value of Rs. 3,000 bearing 3½ per cent interest were purchased during the year thus bringing the total amount of investments from Rs. 18,000 to Rs. 21,000 which has been kept in the custody of the Imperial Bank of India, Nagpur. The financial position of the fund continued satisfactory during the year and this enabled the Central Managing Committee to sanction benefits on a rather more liberal scale to relieve distress among the families of deceased subscribers. Two meetings of the Central Managing Committee were held during the year to consider various subjects concerning the fund and relief to the extent of Rs. 2,975 was granted in respect of 23 cases compared with 39 cases for relief in the previous year.

(2) The details of benefits granted to the dependants of various deceased subordinates are as given below:—

Statement showing the names of various deceased forest subordinates in whose cases benefits have been sanctioned during the year ending 31st March 1940.

Serial No.	Name of the deceased subordinates	Division	:	Amount of benefit sanctioned to the depen- dants		ity under anctioned
				Rs.		Committee's tion No.
1	Forest Guard Dhanraj Singh.	Chh indwara		150	9 (i)	d. 21-7-39
2	Forest Guard Kundanlal	Saugor		50	9 (ii)	Do.
3	Forest Guard Bhopal	Seoni	٠.	100	9 (iii)	Do.
4	Forest Guard Hamze Khan.	South Chanda	••	150	9 (iv)	Do.
5	Forest Guard Paikoo Venka.	Do.	••	150	9 (v)	Do.
6	Deputy Ranger Latif Hussain.	Do.	••	300	9 (vi) and 8-11-	d. 21-7-39 No. 5, d.
7	Forest Guard Manohar-lal.	Balaghat		150	9 (vii)	d. 21- 7-3 9.
8	Forest Guard Nanhu Singh.	Nimar	••	125	9 (viii)	Do.
9	Forest Guard Mathura Prasad.	Do.	•	50	9 (i x)	Do.

Serial No.	Name of the deceased subordinates	Division		Amount of benefit sanctioned to the dependants		ty under anctioned
10	Forest Guard Kaluram	Nimar		50	9 (x)	d. 21-7-39.
Ħ	Mr. G. V. Joglekar, Accountant.	Nagpur-Wardi	ha	600	8 (i)	d. 8-11-39.
12	Forest Guard Bans Gopal.	Saugor	• •	75	8 (ii)	Do.
13	Forest Guard Baboo Singh.	Hoshangabad	• •	75	8 (iii)	Do.
14	Forest Guard Nawab Khan.	Jubbulpore	٠.	150	8 (iv)	Do.
15	Forest Guard Hamid Mohammad.	Seoni	••	100	8 (v)	Do.
16	Forest Guard Chandan Singh.	Do.	٠.	100	8 (vi)	Do.
17	Forest Guard Moorat Singh.	Mandia	••	75	8 (vii)	Do.
18	Forest Guard Phundilal	Do.		25	8 (viii)	Do.
19	Forest Guard Ramcha- ran Pandey.	Yeotmai	• •	125	8 (ix)	Do.
20	Forest Guard Samaroo	Raipur		25	8 (x)	Do.
21	Forest Guard Sukhlal	Do.		150	8 (xi)	Do.
22	Forest Guard Rajaram	Chhindwara		150	8 (xii)	Do.
23	Forest Guard Wazir Khan.	Hoshangabad	••	50	Provin Berar	Forest evolent d's No. F-241, d.
		han a		0.075		

Total .. 2,975

(3) The fund has the following main sources of income:

(i) Donations (received mainly from sportsmen).

(ii) Fines (received from forest guards and other menial staff).

(iii) Subscriptions (received from forest subordinates and clerks).

(iv) Interest on investments.

Of these, the income from items (i) and (ii) is invested in the purchase of Government Promissory notes bearing 3½ per cent interest and that from items (iii) and (iv) is distributed to relieve distress among the dependants of deceased subordinate.

(4) Subscriptions as noted below were received from different grades of subordinates during the year under report:—

						-		-
	Tota	al	2,254	14	0	2,219	9	6
(iii)	Clerks	vaiits.	274	0	0	234	0	0
(ii)	Foresters, Forest		1,282	14	0	1,365	9	6
(i)	Rangers and Rangers.	Deputy	Rs. 698			Rs. 620		р. 0
			1938	8-39)	1939-4	0	

- (5) The annual statements of accounts for the year ending 31st March 1940 as passed by the Central Managing Committee are shown in the attached statement as an Appendix B to this report.
- (6) The accounts of the fund were examined and audited by the Examiner of Local Fund Accounts, Central Provinces and Berar, during the year and objections raised by him in his audit note were attended to.

With a view to sanction relief on a more liberal scale to the dependants of the forest guards it was decided by the Central Managing Committee to increase the rate of their annual subscription from Re. 0-8-0 to Re. 1 and an appeal to this effect was made to all the forest guards who are subscribers to the fund. The majority of the forest guards as well as all the presidents of the divisional committees were in favour of this increase and consequently the rate of annual subscription of this class of subordinates has been raised to Re. 1 with effect from the 1st April 1940. In future, this increase in the rate of annual subscription will enable the Central Managing Committee to sanction relief to this class of subordinates on a more liberal scale.

(7) The number of subscribers to the fund as it stood on 31st March 1940 is given below:—

Rank		1938-39	1939-40
Forest Rangers	••	76	63
Deputy Rangers		141	139
Foresters	• •	222	241
Forest Guards and orderlies, etc.		2,018	2,193
Clerks		143	133

The number of subscribers amongst Forest Rangers has decreased. This is due to the fact that present Forest Benevolent Fund gives no guarantee for a minimum benefit to the subscriber or to the surviving member of the family. The clerks have also the same objection to subscribing to the fund.

- (8) Donations to the extent of Rs. 635-11-5 were received during the year and the President takes this opportunity to thank all concerned for this generous response to a deserving cause. It includes a sum of Rs. 100 from Mr. C. E. C. Cox, C.I.E., I.F.S.
- Mr. C. E. C. Cox, C.I.E., I.F.S., President of the Central Provinces and Berar Forest Benevolent Fund, proceeded on leave preparatory to retirement during the year and Mr. C. M. Harlow, I.F.S., Chief Conservator of Forests, Central Provinces and Berar, succeeded him.

C. M. HARLOW,

President, Forest Benevolent Fund, Central Provinces and Berar.

APPENDIX B

Statement showing the financial position of the Central Provinces and Berar Forest Benevolent Fund for the year ending 31st March 1940.

irch 1940.		Amo	unt	
		Rs.	a.	D.
Balance brought forward		1 725		• -
Receipts during 1939	-40.			
(1) Donations		635	11	5
(1) Dollations	• •	2,219		6
(2) Subscriptions	• •	780	1	6
(3) Fines	• •	808	12	
(4) Interest	• •			
(5) Miscellaneous	• •		14	!U
Total receipts during 1939-40		4,445	2	3
Total		11,180	2	5
Payment during 19	3940.			
(1) Relief paid		5,127	0	0
(2) Advances made under F	ore st	57		Ő
Benevolent Fund Rule 7.				
(3) Purchase of Government missory Notes.	pro-	2,933	10	0
(4) Moneyorder commission		40	6	0
(5) Printing charges			Ŏ	
(6) Bank charges		2	ň	Ŏ
(7) Refund of fines	• • •	2 2	5	6
(8) Honorarium	• •	25	ó	
Total payment during 1939-40	٠.,	8,197	5	6
Closing balance on 31st March (With Divisional Forest O and in Imperial Bank of Rs. 2,635-1-7+Rs. 347-11-4	fficer India	s 2,982	12	11
Tota!		11,180	2	5

S. R. DAVER, Honorary Secretary, Forest Benevolent Fund, Central Provinces & Berar.

In the last year's (1938-39) annual statements of accounts closing balance on 31st March 1939 was shown Rs. 6,785-0-2 but the correct balance is Rs. 6,735-0-2 (vide correspondence on the subject in the Yeotmal Division file).

S. R. DAVER, Secretary.

ANNUAL STATEMENTS

CENTRAL PROVINCES AND BERAR FOREST

BENEVOLENT FUND, 1939-40

STATEMENT No. I

Investment account

Date	(a) Investments		Face value	ue	Cos	t price
On the 1st April 1939.	Investments in Government Promis		Rs. 18,00	0	Rs. 13,28	a. p. 33-0-4
	Notes bearing 3 cent interest.		2.000		2.02	. 10.0
1939-40	Invested during year.	tne	3,000) 	2,93 .	3-10-0
Balance or	n 31st March 1940		21,000) [6,21	6-10-4
(b) Ca	ash account (investm	ents).				
]	Rs.	a. p	
Bala	ince on 1st April 193	39	3	,072	?-7-4	
	ing 1939-40—					
(1) Don:	ations		. 635			
(2) Fine						
(3) Misc	cellaneous	•	. 0	14	10	
То	tal receipts 1939-40	•	1,416	12	9	
	Total	•	4,489	4	1	
Payments du	ring 1939-40					
(1) Puro	hase of Government	Pro	- 2,933	10	0	
(2) Refu	and of fine	•	. 2	5	6	
Tota	l payments, 1939-40		. 2,935	15	6	
(wit Offi	ce on 31st March th Divisional icers and in Imperial india).	Fores	t	4	7	
	Total	•	4,489	4	1	

STATEMENT No. II

Benevolence account

Cash	Amo	unt	
	Rs.	a.	p.
Balance on 1st April 1939	3,662	8	10
Receipts during 1939-40—			
(1) Subscriptions	2,219	9	6
(2) Interest	808	12	0
Total receipts during 1939-40	3,028	5	6
Total	6,690	14	4
Payments during 1939-40—			
(1) Relief paid	5,127	0	0
(2) Advances made under Forest Benevolent Fund Rule 7.	57	0	0
(3) Benefits already sanctioned but yet to be paid.	25	0	0
(4) Moneyorder commission	40	6	0
(5) Bank charges	2	0	0
(6) Printing charges	10	0	0
(7) Honorarium	25	0	0
Total payments during 1939-40	5,286	6	. 0
Closing balance on 31st March 1940 (with Divisional Forest Officers and Imperial Bank of India).		8	4
Total	6,690	14	 4

STATEMENT No. III

Forecast Budget for 1940-41.

Cash for benevolence	Amo	unt	t
	Rs.	a.	p.
Balance on 1st April 1940	1,404	8	4
Subscriptions estimated (received up to date Rs. 3,283+estimated Rs. 117.)	3,400	0	0
Interest estimated (on Government Promissory Notes of Rs. 21,000 at $3\frac{1}{2}$ per cent, Rs. 735; on Divisional Forest Officer's Bank balance Rs. 160-7-8.)	895	7	8
Total for distribution during 1940-41.	5,700	0	0

S. R. DAVER,

Honorary Secretary, Forest Benevolent Fund, Central Provinces and Berar.

GOVERNMENT OF THE CENTRAL PROVINCES AND BERAR



REPORT

ON THE

FOREST ADMINISTRATION

OF THE

CENTRAL PROVINCES & BERAR

FOR THE YEAR ENDING

31st MARCH 1940

STATEMENTS

NAGPUR
GOVERNMENT PRINTING, C. P. & BERAR
1941

[12-2-41]-2

[Note.-Appointments of all official Agents in the United Kingdom and on the Continent for the Sale of Government Publications have been terminated with effect from the 1st April 1925. All publications in future are obtainable either direct from the High Commissioner for India, India House, Aldwych, London, W. C. 2, or through any bookseller.]

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Annual Form No. 7.—Area of reserved forests, protected forests, unclassed or public forest land and leased forests, 1939-40.

Division and	Civil district or	Name of forest	Area on 1s 1939		Added during the year	Excluded or trans- ferred to other heads	Area on 31st 1940		No. and date of notifica- tion of addition or transfer, etc. and remarks
Range	territory		Acres	Equi- valent in square miles	Acres	Acres	Acres	Equi- valent in square miles	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	. (10)
			Res	Eastern	circle				
Saugor— Khurai	Saugor	Whole range	115,174.88	180		54.20	115,120.68	180	Excluded. Notification No. 585-431-XI, dated the 13th July 1939 and No. 1101-1155-XI, dated the 27th October 1939.
Danioh	Do. ,.	Do	167,378.00	262	707	••	168,085.00	263	Added. Transferred from Jubbulpore division, vide Chief Conservator of Forest's No. 1844-G-18, dated the 12th July 1939.
		Remainder of the division.	748,373.20	1,169			748,373.20	1,169	
į		Total Saugor division	1,030,926.08	1,611	707	54.20	1,031,578.88	1,612	

Annual Form No. 7.—Area of reserved forests, protected forests, unclassed or public forest land and leased forests, 1939-40—contd.

Division and Range	Civíl district or territory	Name of forest	Area on 1		Added during the year	Excluded or trans- ferred to other heads	Area on 31s: 1940		No. and date of notifica- tion of addition or transfer, etc., and remarks
,	territory		Acres	Equi- valent in square miles	Acres	Acres	Acres	Equi- valent in square miles	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
*	,		Res	Eastern served fores					
Jubbulpore— Murwara	Jubbulpore	Whole range	137,393.89	215	707	1,043	137,057.89	215	Afforested, vide notification No. 490-563-XI, dated the 31st May 1939.
		Remainder of the division.	358,045.81	559		••	358,045.81	559	Excluded, vide notification No. 898-843-XI, dated the 2nd September 1939. Excluded, vide notification No. 897-843-XI, dated the 2nd September 1939. Excluded, vide Chief Conservator of Forests' No. 1844-G-18, dated the 12th July 1939.
		Total Jubbulpore division.	495,439.70	774	707	1,043	495,103.70	774	

Mandla— Jagmandal	Mandla	 Whole range	148,963.00	234		5	148,958.00	234	Excluded, vide notification No. 254-202-XI, dated the 21st March 1940.
Sarastal	Do.	 Do	157,472.00	246	••	1,694	155,778.00	243	Excluded, vide notification No. 396-97-XI, dated the
		Remainder of the division.	678,384.12	1,059			678,384.12	1,059	2nd May 1939.
		Total Mandla division	984,819.12	1,539		1,699	983,120.12	1,536	
Balaghat— Dhansua	Balaghat	 Whole range	140,377.18	220		2.8	140,374.38	220	Excluded, vide notification No. 925-917-XI, dated
		Romainder of the division.	456,738.00	713			456,738.00	713	the 8th September 1939.
		Total Balaghat division	597,115.18	933		2.8	597,112.38	933	
Bilaspur— Mahasamund	Raipur	 Whole range	71,844	112	34.36	38.53	71,839.83	112	Notification No. 1022s 1077-XI and No. 1023- 1077-XI, dated the 4th
North Laon	Do.	 Do	71,507	112	**	222.00	71,285.00	112	October 1939. Notification No. 615-628- XI, dated the 15th June
		Remainder of the division.	533,887	834	••	••	533,887.00	834	1939.
		Total Bilaspur division	677,238	1,058	34.36	260.53	677,011.83	1,058	
Raipur	Raipur	 Whole division	621,913.5	972	••		621,913.5	972	
		Total Raipur division	621,913.5	972	• •	4 +	621,915.3	972	
		Total Eastern circ'e	4,407,451.58	6,887	1,448.36	3, 05 9 .53	4,405,840.41	6,885	

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(J)

Annual Form No. 7.—Area of reserved forests, protected forests, unclassed or public forest land and leased forests, 1939-40—contd.

Civil Division and district or		Name of forest	Area on 1st April		Added during the year	Excluded or trans- ferred to other heads	Area on 31st March 1940		No. and date of notifica- tion of addition or transfer, etc., and remarks
Range	territory		Acres	Equi- valent in square miles	Acres	Acres	Acres	Equi- valent in square miles	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		İ		Centra	l circle				•
			Res	served fore	sts-A class				
Seoni— Whole divi- sion.	Chhindwara and Ho- shangabad.	Whole division	591,988	925	••	••	591,988	925	
		Total Seoni division	591,988	925			591,988	925	
Chhindwara— Whole divi- sion.	Chhindwara	Whole division	423,829	662			423,829	662	
		Total Chhindwara division.	423,829	662			423,829	662	
North Chanda- Mul	Character	Mul ,.	151,817	237	940*	••	152,757	239	*Secretariat No. 1259- 1200-XI, dated the 14th December 1939. Trans- ferred from B class to. A class.

ı	
•	•

Chanda	Do.		Chanda	103,522	162	3,479.30 (a)	••	109,587	171	(a) 425-373-XI, dated the 9th May 1939. Afforest-
Brahmapuri	Do.		Brahmapuri	79,137	124	8.4 (b) 981 (*)	7.4 (c)	80,119	125	ed. (b) 1274-1308-XI, dated the 20th December 1939. Afforested.
* Sindewahi	Do.		Sindewahi	113,727	177	2,126 (*)	••	115,853	181	(c) 1275-1308-XI, dated the 20th December 1939, Disforested.
Wairagarh	Dσ.		Wairagarh	80,674	126	28,337 (*)		109,011	170	
			Remainders	183,577	287	,,		183,577	287	
			Total A class	712,454	1,113	38,457		750,904	1,173	
				Re	served for	ests—B class				
Mul	Chanda	••	Mul	6,219	10		312 (a) 940 (b)	4,967	8	(a) 423-15-XI, dated the 9th May 1939. Disforested. (b) Secretairat No. 1259-1200-XI, dated the 14th December 1939. Transferred from B class to A class.
Chanda	Do.		Chanda	6,123	10		2,586 (b)	3,537	6	Class.
Brahmapuri	Do.		Brahmapuri	. 1,518	2		981 (b)	537	1	
Sindewahi	Do.	• •	Sindewahi	8,200	13	•••	157.58(c) 2,126 (b)	5,916	9	(c) 483-549-XI, dated the 29th May 1939. Dis- forested.
Wairagarh	Do.	••	Wairagarh	73,864	115		442.02 (d) 28,337 (b)	45,085	70	(d) 1133-1125-XI, dated the 4th September 1939. Disforested.
	1		Total B class	95,924	150		35,882	60,04	94	
			Total North Chanda division.	808,378	1,263	38,457	35,889	810,946	1,267	

Annual Form No. 7.—Area of reserved forests, protected forests, unclassed or public forest land and leased forests, 1939-40—contd.

Division and	Civil district o		Name of forest	Area on 1st April 1939		Added during the year	Excluded or trans- ferred to other heads	Area on 31st March 1940		No. and date of notifica- tion of addition or transfer, etc., and remarks
Range	territory			• Acres	Equi- valent in square miles	Acres	Acres	Acres	Equi- valent in square miles	
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
South Chanda—				Res	Central erved fore	circle sts—A class.				
Whole divi-	Chanda		Whole division ,.	623,286	974	• ••	.,	623,286	974	
aion.			Total A class	623,286	974			623,286	974	
				R	eserved for	ests—B class		٠		
Markhanda	Chanda	••	Markhanda	24,946	39		1,277	23,669	37	No. 578-675-XI, dated the 12th July 1939. Dis- forested.
		i	Remainders	133,377	209	• •		133,377	209	ioresteu.
,	1		Total B class	158,323	248		1,277	157,046	246	
,			Total South Chanda	7 81,60 9	1,222	٠,	1,277	780,332	1,220	
Nagpur-Wardha				Res	served fore	sts—A class			·	
Kondhali	Nagpur	٠.	Kondhali	52,524	82	185.19		52,709	82	700-562-XI, dated the 18th July 1939. Afforested,
•	1		Remainders	403,933	631			403,933	631	July 1737. Altorested,
			Total Nagpur-Wardha	456,457	713	185.19		456,642	713	

Bhandara— Bhandara ⊳	Bhandara	Bhandera	80,447	125		18,643*	61,804	97	*1112-1036-XI, dated the 31st October 1939. Transferred to newly reconstituted Wainganga range.
Tirora	Do	Tirora	52,983	83	21,476		74,459	116	range.
Wainganga	Do	Wainganga			44,452		44,452	69	•
Partabgarh	Da	Partabgarh	129,021	20 2		25,80 9*	81,685	128	* 1112-1036-XI, dated the 31st October 1939 Transferred to newly re- constituted Wainganga
			:			21,476*	••	••	range. *Transferred to Tirora range on account of re-
						51*		••	vival of Waingange range. *134-56-XI, dated the 12th February 1940, Dis-
Bawantheri	Bhandara and Bala-	Bawanthari	92,484	145			92,484	145	forested.
	ghat,	Total A class	354,935	555	65,928	65,979	354,884	555	
			Rese	rved fores	ts-B class.				
Whole divi-	Bhandara	Whole division	2,978	4		••	2,978	4	
5 15111		Total B class	2,978	4			2,978	4	
		Total Bhandara divi- sion.	357,913	559	65,928	65,979	357,862	559	
		Total A and B class	3,420,174	5,344	104,570	103,145	3,421,599	5,346	
				Abstr	act.		**************************************		•
		Total A class	3,162,949	4,942	104,570	65,986	3,201,533	5,002	
		Total B class	257,225	402		37,159	220,066	344	
		Total Central circle	3,420,174	5,344	104,570	103,145	3,421,599	5,346	

Annual Form No. 7.—Area of reserved forests, protected forests, unclassed or public forest land and leased forests, 1939-40—contd.

Division a	nd	Civil district or	istrict or Name of forest		Area on 1st April Added or during f		Excluded or trans- ferred to other heads	Area on 31st 1940		No. and date of notifica- tion of addition or transfer, etc. and remarks	
Range	nge territory		Acres	Equi- valent in square miles	Acres	Acres	Acres	Equi- valent in square miles			
(1)		(2)	1	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
					Timber		n circle reserve—A c	lass.		•	
Amraoti— Chikalda	.,	Amraoti		Chikalda	23,089	36		•	23,089	36	28th August 1939. Dis- forested .38 acre but area not accounted for being
Do. Do.	••	l		Hathighat Other A class grass ramna, Ellichpur taluq.			3,592 124	::	3,592 124	6	less than 1 acre. Transferred from Sawalmendha to Chikalda range as a result of amalganiation of
Do.	••	Do.	• •	Various Babul Bans in Ellichpur and Darya- pur taluqs.			1,291		1,291	2	Amraoti and Melghat divisions.
. Morsi	••	Do.	••	36.1	9,598	15	120	59	9,659	15	403-1347-XI, dated the 4th May 1939. Transferred from "C" to "A" class, 119 acres 32 gunthas. 402-1347-XI, dated the 4th May 1939. Trans- ferred from "A" to "C" class, 59 acres.

 $\boldsymbol{\alpha}$

Do	Do.	Shekdari .	6,649	j 11	3	3	6,649	11	1191-1248-XI, dated the 25th November 1939. Afforested, 3 acres 8 gunthas. 1192-1248-XI, dated the 25th November 1939. Disforested 3 acres 8 gunthas.
Do.	Do.	Various Babul Bans	3,599	6	8	8	3,599	6	208-222-XI, dated the 10th May 1939. Afforested 8 acres 2 gunthas. 209-222-XI, dated the 10th May 1939. Disforested 8 acres 2 gunthas.
All ranges	Do.	All forests	765,647	1,196	٠.	5,007	760,640	1,188	o acres 2 gunthas,
	1	Total Amraoti division	808,582	1,264	5,138	5,077	808,643	1,264	
Yeotmal— Ghatanji	Yeotmal	Aite	2,379	4	23		2,402	4	1136-1156-XI, dated the 4th November 1939. Afforested 22 acres 21 gunthas.
Do	Do.	Nidba	11,866	19	••	10	11,856	19	1137-1156-XI, dated the 4th November 1939.
All ranges	Do.	All forests	484,315	756	• •	••	484,315	756	4th November 1939, Disforested 10 acres.
		Total Yeotmal division	498,560	779	23	10	498,573	. 779	
West Berar-All ranges	Akola ar Buldana.	d All forests	303,541	474			303,541	474	
		Total West Berar division.	303,541	474	• •		303,541	474	
		Total A class Berar	1,610,683	2,517	5,161	5,087	1,610,757	2,517	

Annual Form No. 7.—Area of reserved forests, protected forests, unclassed or public forest land and leased forests, 1939-40—contd.

Division and district or Range territory		Name of forest	Area on 1st April during		Added during the year	Excluded or trans- ferred to other heads	Area on 31st March 1940		No. and date of netifica- tion of addition or transfer, etc., and remarks			
			Acres	Equi- valent in square miles	Acres	Acres	Acres	Equi- valent in square miles				
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
					Timber	Western	circle	lass.				5
Amraoti— Chikalda		Amraoti		All forests	16,482	25			16,482	25		
Khirpani	٠.	Do.		Chinchona and Nim- khera.	2,368	4	••		2,368	4		
Amraoti		Do.	• •	(All forests) Amraoti taluq.	44,683	70		30	44,653	70	463-533-XI, dated the 23rd May 1939. Dis- forested 25 acres 30 gunthas.	
											990-1013-XI, dated the 21st September 1939. Disforested 4 acres 20 gunthas.	
Morsi		Do.	• • •	All other taluqs	30,131	47	59	120	30,070	47	402-1347-XI, dated the 4th May 1939. Trans- ferred from "A" to "C" class 59 acres.	

									403-1347-XI, dated the 4th May 1939. Trans- ferred from "C" to "A" class 119 acres 32 gunthas.
		Totel Amraoti division	93,664	146	59	150	93,573	146	
Yeotinal— Umerkhed	Yeotmal	(All forests) Pusad taluq.	42,653	67		60	42,593	67	199-125-XI, dated the 4th March 1940. Dis- forested 2 acres 20 gunthas.
		 							219-118-XI, dated the 9th March 1940. Dis- forested 57 acres 29 gunthas.
All ranges	Do	All other taluqs	207,790	324			207,790	324	
		Total Yeotmal division	250,443	391		60	250,383	391	=
West Berar— Chikhli	Buldana	(All forests) Malkapur taluq.	38,062	60		10	38,052	60	935-756-XI, dated the 11th September 1939. Disforested 10 acres.
All ranges	Akola and Buldana.	All other taluqs ,	138,586	216	••		138,586	216	
ļ		'Potal West Berar division.	176,648	276		10	176,638	276	
		Total C class Western circle.	520,755	813	59	220	520,594	813	
		Grand Total A and C class Berar.	2,131,438	3,330	5,220	5,307	2,131,351	3,330	

Annual Form No. 7.—Area of reserved forests, protected forests, unclassed or public forest land and leased forests, 1939-40—contd.

Division and Range	Civil district or territory	Nume of forest	Area on 1st April 1939		Added during the year	Excluded or trans- ferred to other heads	Area on 31st March 1940		No. and date of notifica- tion of addition or transfer, etc. and remarks
	·		Acres	Equi- valent in square miles	Acres	Acres	Acres	Equi- valent in square miles	•
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Amraoti		·	£	Western 1 class C.					
Sawalmendha	Betul	All forests	69,310	108		69,310	, ,		853-858-XI, dated the
Dabkя ,,	Do	Do	77,396	121	• •	77,396		••	25th August 1939. Transferred to Betul division.
Nimar— Mandwa	Nimar	Mandwa	47,218	74	• •	-	47,217	74	1050-1058-XI, dated the 11th October 1939, Disforested I acre.
Singaji	Do	Agni	5,018	8	••	15	5,003	8	Conservator of Forests, Western Circle, memo- randum No. 121-9-C-5, dated the 11th January 1940. Excluded by cor-
All ranges	Do	All forests	1,024,390	1,600			1,024,390	1,600	rection 15 acres,
		Total Nimar division	1,076,626	1,682	•••	16	1,076,610	1,682	

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v

Betul— Tapti	Betul	All forests	162,758	254	•••	25,095	137,663	215	Chief Conservator of Forests, memorandum No. 3078-G-364, dated the 7th November 1939. Transferred to Sawalmenths range.
All ranges	Do	Do	435,716	681			435,716	681	
Sawalmendha	Do	Do			69,310		69,310	108	
Do	Do	Manjarwani, Raksi Nilgarh and Kun- kheri Blocks 33 to 36.		••	25,095		25,095	39	· ·
Dabka	Do	All forests		••	77,396		7,396	121	
		Total Betul division	598,474	935	171,801	25,095	745,180	1,164	
Hoshangabad— All ranges	Hoshang- abad.	All forests	655,753	1,025			655,753	1,025	
		Total A class Nimar, Betul and Hoshang- abad divisions.	2,477,559	3,871	171,801	171,817	2,477,543	3,871	
		Grand Total Western Circle.	4,608,997	7,201	177,021	177,124	4,608,894	7,201	
		Grand Total C. P. & Berar.	12,436,622.58	19,432	283,039.36	283,328.53	12,436,333.41	19,432	

Annual Form No. 7.—Area of reserved forests, protected forests unclassed or public forest land and leased forests, 1939-40—contd.

Division and	Civil district or	Name of forest	Area on 1s 1939		Added during the year	Excluded or trans- ferred to other heads	Area on 31st 1940		No. and date of notifica- tion of addition or transfer, etc., and remarks
Rang€	territory		Acres	Equi- valent in square miles	Acres	Acres	Acres	Equi- valent in square miles	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		Reserved forest unde		astern ci nt of the F		and Irriyatio	on Departments	' '•	
Saugor Banda and Damoh.	Saugor	••	427.30	1	••	••.	427.30	1	
Jubbulpore— Murwara and Jubbulpore.			885.24	1		••	885.24	1	
Balaghat— Sonawani, Baihar and Supkhar.	Balaghat		1,038.94	2			1,038.94	2	
Bilaspur— Kota, Lormi and Baloda.	Bilaspur		10,426.52	16			10,426.52	16	
North Laon	North Rai-		12.67				12.67	••	

Raipur— Balod and Dhamtari. w	Raipur]	1,311	2			1,311	2		
ű		Total .	14,101.67	22			14,101.67	22		
		Reserve	ed forest under t	he manage	ment of Road	i Is and Build	ings.			
Balaghat— Sonawani, Lemta and Balhar,	Balaghat		228.00				228.00	••		
Bilaspur— Baloda	Bilaspur		4.15			.,	4.15	••		
		Total .	. 232.15			, .	232.15			15
		Reserved for	est transferred to	Public W	' 'orks Depart	nent for met	' al quarry.			
Bilaspur— Mahasamund	Raipur		3.67	 I			3.67	••		
		Total .	3.67		• •	.,	3.67			
		Reserved	forest under the	managem	ent of Veter	inary Depart	ment.		<u> </u>	
Saugor— Khurai	Saugor	Block No. 85 Dewal					3,614	6	Formal notification is under issue.	
		Total .					3,614	6		

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Annual Form No. 7.—Area of reserved forests, protected forests, unclassed or public forest land and leased forests, 1939-40—concld.

Division and Range	Civil district or territory	Name of forest	Area on 19		Added during the year	Excluded or trans- ferred to other heads	Area on 31st 1940		No. and date of notifica- tion of addition or transfer, etc., and remarks
			Acres	Equi- valent in square miles	Acres	Acres	Acres	Equi- valent in square miles	
(1)	(2)	(3)	(4)	(5)	, (6)	(7)	(8)	(9)	(10)
Seoni-	:	_		· ·	-	igation Depa			
Whole divi- sion.	Chhindwara	A class	92.42	_		}	92.42		
		Total Seoni division	92.42		• •		92.42		
Chhindwara— Whole divi- sion.	Chhindwara	A class	••						
North Chanda— Whole divi- sion.			7,877.76				7,877.76	12	
Do	Do	B class	549.65	5 1	• •		549.65	1	
		Total North Chanda	8,427.41	13			8,427.41	13	
outh Chanda— Whole divi- sion.	Chanda	B class	13	3			13		
SIOIL.		Total South Chanda	13				13		

N a g p u r Wardha— Whole divi sion.	Nagpur and Wardha.	A class						
Bhandara— Whole divi- sion.	- Bhandara	A class	2,842	4			2,842	4
		Total Bhandara , .	2,842	4		• •	2,842	4
		Reserved for	es t un der the me	magement	of the Public	c Works Dep	artment.	
Seoni— Whole divi- sion.	Chhindwara				.,		··.	
Chhindwara— Whole divi- sion.	Chhindwara				••			••
North Chanda— Whole divi- sion,	Chanda	A class	298		••		298	
South Chanda— Whole divi- sion.		A and B class	410				410	
N a g p u r- Wardha— Whole divi- sion.		A class	· 147				147	
Bhandara— Whole divi- ison.	Bhandara	A class	108				108	
		Total	963	2		••	963	2
		Total Central circle	12,338	19	• •		12,338	• 19

Form No. 8.—Progress made in forest settlements during the year 1939-40.

			Are	a in square :	miles	Cost duri	ng the year		Government of set	nt notification
Circle	Civil district or territory	Name of forest	Finally settled during the year	In hand at commence- ment of year	Taken in hand during the year	In forest	In other	Entire cost per square mile of areas finally settled	No.	Date
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
		.								
Eastern circle			••		.25					
Central circle .	•		5.74	5. 73	.01			••		
Western circle .			.05	.10	.21	••				
			·····						Í	
		Total Central Provinces and Berar.	5.79	5.83	.47	••		••		

Form No. 9.—Record of demarcation and maintenance of boundaries, 1939-40

		***	Length of boundaries artificially	Length of previously	Length of previously		Length of boundaries still to be		Total length of boundaries	demai during	liture on reation the year	
	Circle		demar- cated during the year	existing boundaries repaired	boundaries	boundaries at close of the year	demar- cated at close of the year	not requiring artificial marks	at the close the year	On new work	On repairs	Remarks
	(1)		(2)	(3)	′4)	(5)	(6)	(7)	(8)	(9)	(10)	. (11)
_			Miles	Miles	Miles	Miles	Miles	Miles-ch	Miles	Rs.	Rs.	
En	stern circle		5	1,788	7,281	9,074		1,467-10	10,541		3,531	
Сет	ntral circle	•	28	1,438	5,997	7,463		896-0	8,359	310	2,620	
We	stern circle		31	1,837	12,234	14,102		1,371-0	15,473	148	4,502	
	al Central ices and Ber		64	5,063	25,512	30,639		3,734-10	34,373	458	10,653	

N. B.—Boundaries include besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of sub-divisions, such as compartments and coupes, etc.

5

Form No. 10.—Statement showing forest areas surveyed and under survey by the Survey of India Department during the year 1939-40.

		Topographical Surveys Special surveys paid for by Forest Department.							ary surveys not paid y Forest Department.			ndary veys		Area	- Total	
Circl e	Prev	ious.	Of th	e year		Cost.	Pre	vious.	Of th	ne year			Total area surve- yed.	ining	Area as per	Remarks
	4" = 1 mile	2"=1 mile	4"=1 mile		Incur- red during year	Total to the end of year	2" = 1 mile	Smal- ler scales	mile	Smal- ler scales	Pre- vious	Of the year.	-	yed.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
·Eastern circle	Sq. m. 6,805	Sq. m.	Sq. m.	Sq. m.	Rs.	Rs. 6,41,599	Sq. m. 26	Sq. m. 1,474 (a)	Sq. m.	Sq. m.	L. m.	L. m.	Sq. m. 6,829	Sq. m. 56	Sq.m 6,885	(a) 1,474 square miles of the Govt. forest
Central circle	5,311			••		3,17,871							5,311	35	5,346	of the Raipur and Bilaspur Divisions were survey-
Western circle	3,922	1,232				3,11,565	1,314	725	••				7,193	8	7,201	ed by the Survey of In- dia No. 5 Party, Eastern Circle, Shillong between 1933-
Total Central Provinces and Berar	16,038	1,232		• •		12,71,035	1,340	2,199		••			19,333	99	19,432	34 to 1937-38 for which no p a y m e n t was made by the Forest Department.

Note.—Columns 2, 3, 4, 5, 8, 9, 10 and 11 should show the work up to date. The total added to column 15 should equal the total forest area in column 16.

	Area	under sa	anctioned	working	plans		ea not un orking pl				Revision			
				At close	of year		Plans not under preparation		Total forest area in			Re-	Expen-	
Circle	At com- mence- ment of year	Added during year	De- ducted durin g year	Actual area	Per- centage of total forest area (as shown in column (10)	Plans under prepara- tion	quired at	Not required at present	form No. 76 (total of columns			vised plans sanc- tioned	on working plans during the year	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Per cent	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m	. Rs.	
astern circle	6,882	1	3	6,880	100		5	• •	6,885	933				
Central circle	4,919	31	••	4,950	93		60	336	5,346			1,221	4,892	t
Vestern circle	6,331	229	229	6,331	88	15	5	850	7,201	1,494	1,494		2,460	
otal Central Prov- inces and Berar.	18,132	261	232	18,161	93	15	70	1,186	19,432	2,427	1,494	1,22	7,352	

⁽i) No entries referring to revisions of sanctioned plans will be made in columns 2 to 9.

⁽ii) Notes will be made in column 15 to explain whether entries in columns 3 and 4 refer to new work, to corrections of area or to abandonment of working plan prescriptions.

⁽iii) No entries will be made in column 4 regarding temporary suspensions pending revision.

⁽iv) New areas included in or areas thrown out during revisions, will be shown in columns 3, 4 and 7 and not in columns 12 and 13.

⁽v) Honoraria granted for the compilation of working plans will be shown in the remarks column only,

Form No. 12.—Statement showing communications and buildings during the year 1939-40.

					New	works un	dertaken	during	the ye	ar					
		• - •••	Buildings	***************************************	** ***			R	oads ar	nd path	s			Other works	печ
Circle		Expend	liture on		diture	Cart-	roads	Bridle	-paths	Otl	ers	paths	liture	urred	ire on
	Headqua r t e r houses	Rest-houses	Houses for subordina te e s t a b lish-	Others	Total expenditure incurred	Length	Cost	Length	Cost	Length	Cost	Total length of or roads.	Total expenditure incurred	Expenditure incurred	Total expenditure works
(1)	(2·a)	(2-b)	(2-c)	(2-d)	(3)	(4-a)	(4- <i>b</i>)	(4-c)	(4-d)	(4 e)	(4-f)	(5)	(6)	(7)	(8)
	Rs.	Rs.	Rs.	Rs.	Rs.	M. ch.	Rs.	M. ch.	Rs.	M. ch.	Rs.	M. ch.	Rs.	Rs.	Rs.
Eastern circle			4,171	.,	4,171	7-0	2,249	· · ·		į		7-0	2,249	1,422	7,842
Central circle	• •		1,065	400	1,465		3						3	1,649	3,117
Western circle			929		929	8-42	7,620		•••		, ,	8-42	7, 620	552	9,101
,				of a second had approximately			man fritzman sauce.				,				
Total Central Provinces and Berar.	••	•••	6,165	400	6,565	15-42	9,872		•••		• •	15-42	9,872	3,623	20,060

						Repairs e	xecuted o	during t	he year	r		_				
:			Buildings		,			R	oads an	d paths				Other works	rred	
Circle		_	iture on	-	diture	Cart-	roads	Bridle	-paths	Oth	ers	paths	diture	liture	re incu	
	Headqua r t e r houses	Rest-houses	Houses for subordinate establishment	Others	Total expenditure incurred	Length	Cost	Length	Cost	Length	Cost	Total length of or 10ads	Total expenditur incurred.	Total expenditure incurred	Total expenditure incurred	
(1)	(9-a)	(9-6)	(9-c)	(9-d)	(10)	(11-a)	(11-b)	(11-c)	(11-d)	(11-e)	(11 <i>-f</i>)	(12)	(13)	(14)	(15)	2
	Rs.	Rs.	Rs.	Rs.	Rs.	M. ch.	Rs.	M. ch.	Rs.	M. ch.	Rs.	M.	Rs.	Rs.	Rs.	
Eastern circle	902	7,936	14,501	1,703	25,042	3,236	37,640			41	364	3,277	38,004	3,478	66,524	
Central circle	92	7,166	8,547	1,256	17,061	2,594	31,551			6	36	2,600	31,587	2,650	51,298	
Western circle	872	6,897	17,664	752	26,185	4,610	41,251	43	70	4	378	4,657	41,699	4,414	72,298	
Total Central Provinces and Berar.	1,866	21,999	40,712	3,711	68,288	10,440	1,10,442	43	70	51	778	10,534	1,11,290	10,542	1,90,120	

N

N. B. - A means cases taken to court B means cases disposed of under section 67 of the Indian Forest Act, 1878. C means undetected cases.

(b) Includes one case in Betul not shown last year.

Form No. 13 - Statement showing register of breaches of forest rules during the year 1939-40—concld.

						Disp	osed of	during	the ye	ar								
		Conv	ictio	ns		Acqu	ittals				То	otal					iding at of year	
Circle	C	Cases	Pe	ersons	С	ases	Pe	rsons		Cases			Person	3				Remarks
	A	В	A	В	A	В	A	В	A	В	All	A	В	All	A	В	All	
(1)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	. (33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)
Eastera circle	63	7,882	140	20,684	(a)52	686	75	1,582	115	8,568	8,683	215	22,266	22,481	34	688	722	(a) Includes 28 cases withdrawn
Central circle	65	5,134	255	14,379	19	758	94	2,078	84	5,892	5,976	349	16,457	16,806	35	430	465	and com pounded.
Vestern circle	94	8,408	204	19,858	(a) 32	1,482	81	3,309	126	9,890	10,016	285	23,167	23,452	31	2,474	2,505	(a) Include 16 case withdrawn
ot l Central Provinces	222	 21,424	599	54,921	03	2,926	250	6,969	325	24,350	24,675	849	61,890	62,739	100	3,592	3,692	and cor pounded,

N. B.—A means cases taken into court. Theans cases disposed of under section 67 of the Indian Forest Act, 1878.

(a) Includes 44 cases withdrawn and compounded.

Form No. 14.—Area of forest tracts protected from fire during the year 1939-40.

Circle	For	est range	Year in which protection commenced	to be pro-	Area actually pro- tected in * 1938-39	Area attempted to be pro- tected in 1939-40	Failures	Area actually pro- tected in † 1939-40	Cost	Remarks
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	No. of fires.
Sastern circle		••		3,450,529	3,290,484	34,76,8 60	153,807	3,323,053	19,913	574
Central circle	٠.		••	2,347,577	2,261,573	23,67,928	123,498	2,244,430	16,865	500
Nestern circle	••			4,076,915	3,941,106	40,76,912	221,637	3,855,275	23,415	447
Total Central Prov and Berar.	inces	••	• •	9,875,021	9,493,163	99,21,700	498,942	9,422,758	60,193	1,521

[•] Year previous to that of current report.
† Year dealt with in current report.

the second secon							(C) Fire	es beginni	ing inside t	he reserve	or fire-trac	ed area	
		(A)		(B)			Owi	ng to carele	ssness or	accident		
Circle		Fires c accident areles	aused by or through ssness in fire lines	Fires en forest b	tering the y crossing fire-traces	emp of fores purchase produc	orkmen red in the sts, by rrs of forest- re and by cutters	travelle passing	illagers, ers, etc., through forests	By Railw	vay engines	•	ghtning or e baloons
		No. of fires	Area burnt in acres	No. of	Area burnt, in acres	No. of fires	Area burnt, in acres	No. of fires	Area burnt, in acres	No. of fires	Area burnt, in acres	No. of	Area burnt, in acres
(1)	I	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Eastern circle	• 1	15	727	96	21,247	18	3,568	67	16,164	8	3,201		
Central circle	••	26	2,642	81	23,786	14	1,473	33	5,212	9	6,306		
Western circle	••	36	7,720	85	84,019	11	11,600	72	21,277	7	1,487	1	74
Total Central Provinces Berar.	and	77	11,089	262	129,052	43	16,641	172	42,653	24	10,994	1	74

				(C) F	ires beginni	ing inside	the reserve	or fire-t	raced area				and the production of the second seco
		-		By intent	ional firing			,					
Circle			to obtain grass	turn ou	rder to t game or ice cover	Malicio	usly fired	r	otal	Causes	unknown		Total () and (C)
(1)		No. of fires	Area burnt, in acres	No. of fires	Area burnt, in acres	No. of fires	Area burnt, in acres	No. of fires	Area burnt, in acres	No. of fires	Area burnt, in acres	No. of fires	Area burnt, in acres
(1)		(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
Eastern circle	••			4	722	24	4,536	121	28,191	342	103,642	574	153,807
Central circle			••		.,	`29	7,048	85	20,039	308	77,031	50 0	123,498
Western circle	••		••			2	68	93	34,5 06	233	95,392	447	221,637
Total Central Provinces Berar.	and		••	4	722	55	11,652	299	82,736	883	276,065	1,521	498,942

[Area in square miles]

				Open to	grazing	
Circle	Closed to	all animals	Of all	animals	Of all animals e	xcept browsers and goats;
	Whole year	Part of year	Whole year	Part of year	Whole year	Part of year
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	and Management of the particular					
Eastern circle	536	53	1,436		4,860	2
Central circle	566	20	. 335		4,425	20
Western circle	658	. 117	836		5,590	92
	materials - Materials difference - Managing Africa	Z CHANGE OF THE SECOND OF THE SECOND	rm www.eden.com.com	Manager and the second of the second	al franchis again in annual	
Total Central Provinces and Berar	1,760	•190	2,607		14,875	114

*114 sq. miles common.

1			Graz	ing on p	ayment						Nun	nber of a	nimals		
			I	At full ra	tes						At pr	ivileged :	rates		
Circle		Cow								Cows			1	Fees	received
	Buffa- loes	and b lock		Goats	Sheep	Other animals		ees eived	Buffa- loes	and bul- locks	Goats and sheep	Camel	o Other animal		Value at full rates
(1)	(2)	(3)		(4)	(5)	(6)		(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Eastern circle Central circle Western circle	44,88 20,80 124,22	4 64,3	354	1,808 20,002 42,714	1,383 17,014 66,254	470 105 3,046	1,2 1,0	Rs. 6,697 1,845 1,902	57,897 29,983 15,656	6,85,850 5,22,980 5,07,904				Rs. 1,17,975 1,02,864 ,26,035	Rs. 6,09,908 5,36,056 4.45,437
Total Central Provin- ces and Berar	189,91	2 469,8	360 1	64,524	84,651	3,621	6,4	0,444	1,03,536	17,16,734				3,46,874	15,91,401
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Grazi	ing free				 I		Nur	nber of a	nimals			
		В	right u	nder sett	lement			D	uring plea	sure Gove than under	rnment, o settlemen	r otherw t	ise	Total	Grand total of
Circle	Buffa- loes	Cows and bul- locks	Goats and sheep	Camel	Othe anima		t full	Bu a- loes	Cows and bul- locks	Goats		animals	Value of fees at full rates	value of fees at full rates	value at full rates
(1)	(15)	(16)	(17)	(181)	(19)	(2)	0)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
Castern circle Central circle Western circle	1	375					•	671 332 1,482	33,620 14,764 189,315	2,570 20 1,651		69 70 158	30,065 14,045 ,25,321	Rs. 30,065 14,045 1,25,696	Rs. 7.66,670 6,51,946 9,83,035
Votal Central Provin- ces and Berar.		375				-	375	2,485	237,699	4,241	}	297	,69,431	1,69,806	24,01,651

Form No. 17.—Return of grazing in the state forests of the Central Provinces and Berar during the year 1939-40.

		Natural re	generation	Artificial re	generation		Cost		
Locality.		Concentrated regeneration (High forest)	Regeneration mainly by coppice (low forest)	In existing tree forest	Afforestation	Natural regeneration	Artificial regeneration	Total	Remarks
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Acres	Acres	Acres	Acres	Rs.	Rs.	Rs.	
Eastern circle	••	2,950	26,568	166	10	10,254	934	11,188	
Central circle	.,	5,521	26,077	407	••	18,347	2,525	20,872	
Western circle		12,469	19,228	2 56		45,848	2,142	47,9 90	
Total Cential Pro and Berar.	vinces	20,940	- 71,873	829	10	74,449	5,601	80,050	

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Form No. 19.—Outturn (in thousand cubic feet, solid) of timber and fuel during the year 1939-40 and agency of exploitation.

			Timbe	r in th	e rou	gh; logs		Т	imber ir	the ro	ugh; pole	es		Sawn c	r squar	e timber	
Circle	-	Govern- ment	Pur- chasers	Fre		Righ t- holders	Total	Gove rn- ment	Pur- chasers	CTTL STATE		Total	Govern- ment	Pur- chaser	grant	Right- hol- ders	Total
(1)		(2)	(3)	(4	,)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
hastern circle		C. ft. 338	C.ft.		.ft. 59	C.ft.	C.ft. 1,413	C.ft. 494	C.fr 1,137			C.ft. 1,754	C.ft. 362	C.ft,		. C.ft.	C.ft. 404
Central circle		1,482	1,492		9	• •	2,983	412	1,261	61		1,734	100				100
Western circle		839	189		40		1,068	1,055	716	5 50		1,821	241	8	4	\	325
Total Central I	Provinces	2,659	2,697		108		5,464	1,961	3,114	234		5,309	703	12	6		829
			Misc	ellaneo	us			Tot	al timbe	r				Fuel			
Circle		Gov- ern- ment		Free gran- tees	Right hol- ders	Total	Govern- ment	Pur- chasers	Free gran- tees	Right- hol- ders	T otal	Govern- ment	Pur- chasers	Free gran- tees	Right- hol- ders	Total	Total outturn
(1)		(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
		C.ft.	C.ft.	C.ft	C.ft	. C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.
Eastern circle		.	13	2		15	1,194	2,208	184		3,586	1,301	10,592	222		12,115	15,701
Central circle		. 29	53			82	2,023	2,806	70		4,899	2,378	9,609	235]]	12,222	17,121
Western circle		. 423	151	28	٠.	602	2,558	1,140	118		3,816	4,330	3,803	623	118	8,874	12,690
Total Central and Berar.	Province	452	217	30		699	5,775	6,154	372		12,301	8,009	24,004	1,080	118	33,211	45,512

and the same and t	1	المحافظة الدائية - ومراجعت على الدائية		Pro	oduce remo	ved or utiliz	ed	a may panggan digung sa ma maran an ilik di 1900 km			an and an and an and an
	By Gov	ernment ncy.	By pur	chasers	By free	grantees	By right	-holders	То	tal	
Circle	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Remarks.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
		Rs.		Rs.		Rs.		Rs.		Rs.	
]	ļ	Reserved fo						
Eastern circle		43,847	••	4,24,848	••	47,325	,.	• •	••	5,16,020	
Central circle		11,893		3,60,886		26,688			••	3,99,467	
Western circle		4,888	••	7,85,497		1,51,574		2,775		9,44,734	
Total Central Provinces and Berar.		60,628		15,71,231		2.25,587		2,775		18,60,221	

Form No. 21.—Account of timber and other produce cut or collected by Government agency and brought to depôts, soldllocally, or otherwise disposed of, during the year 1939-40.

Name of circle	Balance at commence- ment of the year in forest and sale depôts	Received during the year	Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depôts
(1)	(2)	(3)	(4)	(5)	(6)
Timber	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.
Eastern circle	600,922	1,194,266	1,795,188	1,138,988	656,200
Central circle	755.796	2,023,238	2.779,034	2,095,252	683,782
Western circle	697,325	2,557,636	3,254,961	2,518,716	736,245
Total Central Provinces and Berar.	2,054,043	5,775,140	7,829,183	5, 752,956	2,076,227
Fuel					}
Eastern circle	727,865	1,309,844	2,037,709	1,223,414	814,295
Central circle	365,700	2,378,314	2,744 ,01 4	2,464,920	279,094
Western circle	1,893,559	4,330,281	6,223,840	4,100,269	2,123,571
Total Central Provinces and Berar.	2,987,124	8,018,439	11,005,563	7,788,603	3,216,960
Minor Forest Produce value					
	Rs.	Rs.	Rs.	Rs.	Rs.
Eastern circle	7,418	43,847	51,265	47,044	4,221
Central circle	4,251	11,893	16,144	11,943	4,201
Western circle	4,278	5,397	9,675	7,256	2,419
Total Central Provinces and Berar.	15,947	61,137	77,084	66,243	10,841

Form No. 22.—Abstract showing the value of timber and other produce at sale depôts for the year 1939-40.

		hand at comment of the			On hand at of the y			ence in
Circle	No.	C.ft.	Value	No.	C.ft.	Value	In fav- our of the year	Against the year
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Timber			Rs.			Rs.	Rs.	Rs.
Eastern circle Central circle Western circle	 	84,955 70,984 38,791	81,757 35,831 26,562	 	118,863 40,454 54,748	80,842 17,699 37,640	11,078	915 18,132
Total Central Provinces and Berar.	 	194,730	1,44,150		214,065	1,36,181	11,078	19,047
Fuel								
Eastern circle Central circle Western circle		2,412 	7,813		30,146	10,808	2, 9 95	
Total Central Provinces and Berar.		2,412	7,813		30,146	10,808	2,995	
Minor Forest			-	_				
Produce Eastern circle Central circle Western circle			2,368			1,727	···	641
Total Central Provinces and Berar.			2,368			1,727		641
Sleepers and scantlings Eastern circle Central circle Western circle		13,499	19 545		10,807	21,598	2,053	
Total Central Provinces and Berar.		13,499	19,545		10,807	21,598	2,053	
Ballies and bamboos		-		1-				
Eastern circle Central circle Western circle			1,558 		 	2,429	871	
Total Central Provinces and Berar.			1,558			2,429	871	••
Grand total for Cen- tral Provinces and Berar.			1,75,434		••	1,72 743	16,997	19,688

Form No 23.—Abstract showing the value of live and dead-stock for the year 1939-40.

Circle		comme	nand at ncement nce year	close	and at of the ear	Difference in value		
		Number	Value	Number	Value	In favour	Against the year	
(1)		(2)	(3)	(4)	(5)	(6)	(7)	
Elephants			Rs.		Rs.	Rs.	Rs.	
Eastern circle		4	4,454	3	2,910	••	1,544	
Central circle		9	15,607	9	13,366	3,375	5,616	
Western circle		6	9,061	6	8,546		515	
Total elephants		19	29,122	18	24,822	3,375	7,675	
Other Live-stock								
Eastern circle		11	363	11	345		18	
Central circle		30	968	31	1,151	299	116	
Western circle		34	686	30	636		50	
Total other Live-stock		75	2,017	72	2,132	299	184	
Dead-stock								
Eastern circle			3,31,674		*3,73,617	41,943	••	
Central circle	• •		2.54,129		2,40,599	••	13,530	
Western circle	••		4,63,342		4,54,689		8,653	
Total Dead-stock		••	10,49,145		10,68,905	41,943	22,183	
Grand total for Center Provinces and Berar.	tral		10,80,284		10,95,859		30,042	

^{*}The increase is due to the value of buildings in the Balaghat Division having been recalculated as the value given previously was incorrect.

FORM No 24

X.—Forest—Revenue	Gener directi	on circle	Western circle	Eastern circle	Raipur Forest Tramway	Total
(1)	divisi (2)	(3)	(4)	(5)	(6)	(7)
1.—Timber and other produce removed from the forests		Rs. Rs.	Rs.	Rs.	Rs.	Rs.
Government agency—			~			
(a) Timber		5,52,340	7,36,775	4,26,093		17,15,208
(b) Firewood and charcoal		55,052	60,874	32,166		1,48,092
(c) Bamboos		1,536	2,281	38,117		41,934
(d) Lac		6,676	87	4,471		11,234
(e) Grass and other minor produce		1,062	1,118	1,015		3,195
Total		6,16,666	8,01,135	5,01,862		19,19,663
II.—Timber and other produce removed from the forests consumers or purchasers—	by					
(a) Timber		3,53,154	1,88,108	1,54,507	··	6,95,769
(b) Firewood and charcoal		1,38,410	1,06,493	1,82,652		4,27,555
(c) Bumboos		55,389	1,11,448	63,202		2,30,039
(d) Grazing and fodder grass		2,18,087	6,27,048	2,74,960		11,20,095
(e) Other minor produce		83,354	45,731	79,499		2,08,584
(f) Other items			• •	7,794	.,]	7,794
(g) Commutation fees		4,056	1,270	16,464		21,790
Total		8,52,450	10,80,098	7,79,078		27,11,626

v		
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III.—Drift and waif wood and confiscated forest produce .		1,792	117			2,040	
[V.—(a) Revenue from forests not managed by Governmen	t	••	• •	••		• •	
(b) Revenue from shared and private forests		4,773	2,163			6,936	
Total		4,773	2,163		••	6,936	
V.—Miscellaneous—							
(a) Fines and forfeitures		545	368	721		1,634	
(b) Other receipts	815	54,926	1,02,684	59,246	••	2,17,671	
(c) Refunds		62	28		1	90	39
(d) Receipts of Raipur Forest Tramway					1,89,971	1,89,971	
(e) Contribution for leave salary, etc., of officers lent on Foreign Service.	84	••		679		763	
(f) Contribution from District Council for the maintenance of forest roads used by public.		235	385	480		1,100	
Total	899	55,768	1,03,465	61,126	1,89,971	4,11,229	
Deduct—Refunds	••	-5,884	-638	——————————————————————————————————————	·	7,706	
Total—Revenue	899	15,25,565	19,86,340	13,41,013	1,89,971	50,43,788	

Form No. 24.—Statement of Expenditure for the year 1939-40.

10.—Forest—Expenditure (1)			General direction division (2)	Central circle (3)	Western circle (4)	Eastern circle (5)	Raipur Forest Tramway (6)	Total
General Direction —Pay of Officers—			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Charged.								
(a) Chief Conservator			40,797			••		40,797
(b) Superior Officers			80,848		••	••		80,848
Voted.	•							
(c) Superior Officers			7,175			**		7,175
	Total	••	1,28,820		••	••		. 1,28,820
I.—Pay of Establishment—								
(a) Rangers and Deputy Rangers		••	2,517		••	••		2,517
(b) Clerks			42,875	69	••	• •		42,944
(c) Servants			4,664		. 87	••		4,751
(d) Elephant establishment		••		30		378		408
(e) Temporary establishment		••	144					144
	Total		50,200	99	87	378		50,764

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(a) Expenditure in connection with the training	g of	3,974	1	1			2074
students in Forest Colleges.	8 01	3,714	••	••	"	••	3,974
(b) Dear district and other allowances		657		10		• •	667
(c) Grain compensation allowance	••					••	1
(d) Travelling allowance—				}			
(i) Travelling allowance—Charged		6,785				••	6,785
(ii) Cost of passages granted under the Super Civil Services Rules of 1924—Charged.	rior 	2,064	• •	• •		••	2,064
Total		8,849				••	8,849
(iii) Superior Officers—Voted		969	• •				969
(iv) Establishment		2,674		15	77	••	2,766
Total		3,643	• •	15	77	• •	3,735
7.—Contingencies—Charged—Rates and taxes—						.,	
Contingencies—Voted		11,973	69	116	625	••	12,783
Establishment charges payable to or recoverable frother departments, etc.	rom ·	8,240		.	••	••	8,240
Contribution to Forest Map Office, Dehra Dun	•-			••		••	
Total—General Direction		2,16,356	168	228	1,080		2,17,832

Form No. 24.—Statement of Expenditure for the year 1939-40—contd.

10.—Forest—Expenditure	General direction division	Central circle	Western circle	Eastern circle	Raipur Forest Tramway	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
A Conservancy and Works	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
J.—Timber and other produce removed from the forests b Government agency—	у					
(a) Timber	. 44	1,63,273	3,21,931	1,90,622		6,75,870
(b) Firewood and charcoal		1,066	8,392	4,848		14,306
(c) Bamboos		1,597	1,966	8,458		12,021
(d) Lac		1,785	40	1,424		3,249
(e) Grass and other minor produce		419	442	1,653	<u> </u>	2,514
Total .	. 44	1,68,140	3,32,771	2,07,005		7,07,960
II.—Timber and other produce removed from the fores by consumers or purchasers.	ts	36,670	58,584	44,936		1,40,190
IIIMaintenance, repairs and renewals-						
(a) Feed and keep of cattle		7,224	4,503	1,913	••	13,640
(b) Renewals or replacements of stores, tools as plant.		2,577	8,886	7,519		18,982
(c) Roads and bridges		31,590	47,437	40,253		1,19,280
(d) Buildings		18,526	27,114	29,213		74,853
(e) Other works		4,299	4,349	4,900	••	13,548

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	Total		••	64,216	92,289	83,798	••	2,40,303
WConservancy and regeneration-								
(a) Maintenance of boundaries		•• }	}	2,620	4,649	3,530	••	10,79
(b) Regeneration				4,863	4,210	3,627	••	12,70
(c) Fire protection			78	16,865	23,415	19,913	••	60,27
(d) Compensation for land and rights]			15,730	59	••	15,78
(e) Other works			378	25,459	34,158	14,776	••	74,77
(f) Working plans		·	137	1,035	2,460	55	••	3,68
	Total		593	50,842	84,622	41,960	* •	1,78,01
V.—Miscellaneous—								,
(a) Drift and waif wood and confis produce.	cated f	orest	••	47	23	7	••	:
(d) Law charges			••	638	204	124	••	9.
(f) Clothing			,	5,504	8,370	7,578	• •	21,4
(g) Other charges		••		324	1,553	1,457	••	3,33
	Total			6,513	10,150	9,166		25,8

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10.—Forest—Expenditure	General direction division	Central circle	Western circle	Eastern circle	Raipur Forest. Tramway	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Rs.	Rs.	Rs.	· Rs.	Rs.	Rs.
A Conservancy and Works -concld.					[
I.—Suspense—						
Suspense—Work advance		1,083	••	••		1,083
Deduct—Recoveries		1,037	••	49	••	-1,086
Total	• •	46		-49	***************************************	
III.—Raipur Forest Tramway—	,					
(a) Working expenses	••				1,01,401	1,01,401
(b) Appropriation to depreciation fund	••	••	••	••	29,826	29,826
(e) Renewals and replacements from the depreciation fund.					10,549	10,549
Deduct—Expenditure met from the depreciation fund.	••	••	• •	••	-10,549	-10,549
III.—Forest village schools	••	2,382	4,222	3,385		9,989
Total—A.—Conservancy and Works	- 637	3,28,809	5,82,638	3,90,201	1,31,227	14,33,512

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D. F-4-blishment				١	[]
B.—Establishment		}						
I,—Pay of Officers—Charged—					72.100	20.742	•	1 02 170
(b) Superior Officers		··i	••	81,230	72,198	39,742	••	1,93,170
(c) Travelling allowance—		1						1
(2) Superior Officers		··	164	7,003	7,803	3,541	••	18,511
(d) Cost of passages granted un Civil Services Rules of 1924	der the Superi	or	••	4,451		267	••	4,718
	Total		164	92,684	80,001	43,550		2,16,399
Voted,		_	-					
(f) Superior Officers		}	••	32,027	61,005	79,938	••	1,72,970
	•							
,	Total	··		32,027	61,005	79,938		1,72,970
II.—Pay of establishment—								
(a) Subordinate estabishment—								
(1) Permanent			• •	2,41,541	3,08,807	3,00,230	• •	8,50,578
(2) Temporary			••	3,860	2,336	4,651	••	10,847
(b) Office establishment—		/						
(1) Permanent		.	37	64,005	77,301	71,721	••	2,13,064
(2) Temporary	1	\cdot	••	6,487	4,869	3,814	••	15,170
		-						
	Total	4	37	3,15,893	3,93,313	3,80,416	••	10,89,659

Form No. 24.—Statement of Expenditure for the year 1939-40—concld.

10.—Forest—Expenditure		General direction division	Central circle	Western circle	Eastern circle	Raipur Forest Tramway	Total
(1)		(2)	(3)	(4)	(5)	(6)	(7)
B.—Establishment—concld.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
III.—Allowances and Honoraria—							
(a) Expenditure in connection with the training students in Forest Colleges.	g of		40	68	12,547		12,655
(b) Dear district and other allowances			485	1,940	200		2,625
(d) Travelling allowance—	Ī					1	-,
(ii) Superior Officers			2,967	8,387	8,940		20,294
(iii) Subordinate forest establishment			36,204	52,036	44,138		1,32,378
(iv) Office establishment			3,223	4,476	3,909		11,608
Total		4 3	42,919	66,907	69,734		1,79,560
IV.—Contingencies—	-						-
(a) Stationery		•	455	1,032	607		2,094
(b) Carriage of tents and records			12,053	17,009	10,915		39,977
(c) Rents			1,729	3,507	2,526		7,762
(d) Official postage			5,031	7,234	6,890		19,155
(e) Other contingencies			8,169	10,264	15,773		34,206

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(g) Losses	1	1 86	1		1	86	
Total .		27,523	39,046	36,711		1,03,280	
V.—Contingencies—Rents and taxes—Charged—							
Establishment charges payable to or recoverable from other Government departments, etc.	n		•			•	
Deduct—Establishment charges recoverable of account of cost of management of fores leased to Government—	n ts				,		
Charged		2,287	.	·		2,287	
Voted		8,114		. ••	••	8,114	
Total—B.—Establishment	201	5,00,645	6,40,272	6,10,349	••	17,51,467	
C.—Interest on Capital Outlay		、			71,953	71,953	
D.—Loss by exchange on leave allowances, etc excluding stores—Charged.	273			τ		274	
E.—Loss by exchange on leave allowances, etc. excluding stores—Voted.	6				••	6	
Totel—B. F.—General Direction	. 2,16,356	168	228	1,080		2,17,832	
Total—B. F.—AConservancy, etc.	637	3,28,809	5,82,638	3,90,201	1,31,227	14,33,512	
Charges in England paid by the High Commissioner for India—Charged—	or		,			Anythred Tr. An editorial designation or	
(i) Leave salary and deputation pay-Charged	. 28,322				. .	28,322	
(ii) Leave salary and deputation pay—Voted	. 987					987	
(iii) Sterling overseas pay—Charged	. 32,228					32,228	
Grand TotalForest	2,79,010	8,29,622	12,23,138	10,01,631	2,03,180	35,36,581	

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Form No. 26.—Revenue received and outstandings on account of revenue during the year 1939-40.

Circle	Particulars	Outstandings at commencement of the year	Value of sales and other revenue during the yea	Total	Amount realised during the year	Balance due to the department at end of the year	Remark
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		Rs.	Rs.	Rs.	Rs.	Rs.	
Eastein Circle	••	47,898	13,39,032	13,86,930	13,41,013	45,917	
Central Circle	••	81,760	15,57,864	16,39,624	15,25,565	1,14,059	
Western Circle	••	86,258	20,38,402	21,24,660	19,86,340	1,38,320	
Total		2,15,916	49,35,298	51,51,214	4,88,52,918	2,98,296	
Add—G e n e r a l Direction Division including Raipur Forest Tramway.	i		1,90,870	1,90,870	1,90,870		
Grand Total— Central Province and Berar.		2,15,916	51,26,168	53,42,084	50,43,788	2,98,296	

Form No. 27.—Outstandings and liabilities on account of contractors and disbursers for the year 1939-40.

		Department d	ebtor	D	Department creditor			due
Circle	Opening balance	Recoveries in cash and value of supplies and work done during the year		Opening balance	Payments made during the year	Total	To department (outstandings)	By department (liabilities)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Eastern Circle		8,19,948 7 2	8,19,948 7 2	5,285 8 11	8,18,462 4 11	8,23,747 13 10	3,799 6 8	••
Central Circle		6,72,458 8 1	6,72,458 8 1	19,755 15 0	6,68,280 11 10	6,88,036 10 10	15,578 2 9	
Western Circle		11,43,219 5 2	11,43,219 5 2	21,662 9 7	11,41,360 12 5	11,63,023 6 0	19,804 0 10	
Total		26,35,626 4 5	26,35,626 4 5	46,704 1 6	26,28,103 13 2	26,74,807 14 8	39,181 10 3	
Add—General Direction Divi- sion.		62,406 6 0	62,406 6 0	209 11 6	62,440 13 3	62,650 8 9	244 2 9	
Grand TotalCen- tral Provinces and Berar.		26,98, 0 32 10 5	26,98,032 10 5	46,913 13 0	26 90 544 10 5	27,37,458 7 5	39,425 13 0	

TABLE II.—Forest area by ownerships (in square miles).

			The state		İ			
Province	Type of forest	Dedicated to timber production	Other forests	Total	Corporate bodies	Private individuals	Total [columns (5)+(6)+(7)]	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
entral Provinces and Berar.	Merchantable	12,403	3,333+2,494 Ryotwari forests.	18,230	••	15,274	33,504	
	Unprofitable or in- accessible.	2,040	1,656+1,148 Ryotwari forests.	4,844		9,092	1.,936	-
	Grand Total	14,443	8,631	23,074	••	24,366	47,440	