

REPORT

ON THE

FOREST ADMINISTRATION

OF THE

CENTRAL PROVINCES

FOR THE YEAR

1918-19

Together with the Quinquennial Review for the period ending with the year 1918-19.

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Central Provinces Administration

FOREST DEPARTMENT

Nagpur, the 15th January 1920.

READ :—

Report by the Chief Conservator of Forests on Forest Administration in the Central Provinces for the year 1918-19 and quinquennial review for the period 1914-15 to 1918-19.

RESOLUTION.

The Chief Conservator of Forests has submitted a report on the working of the Forest Department during the year 1918-19, and also a short review of the quinquennium ending with the same year, and this Resolution deals with both.

2. Both the report and the review show in almost every paragraph how the activities of the Department have on the one hand been stimulated and on the other restricted by the War. With a very much reduced staff, it has been called on to meet fresh demands and at the same time has had to carry on its ordinary work, for which even its full strength is none too much, and the Chief Commissioner considers that the financial results shown in paragraph 12 of the review reflect great credit on the Chief Conservator and his officers. The average quinquennial income has risen from 26½ to nearly 34 lakhs and the surplus from under 9 to 15½ lakhs, while the percentage of the surplus to the gross expenditure has increased from 34 to 45. In paragraph 16 of the report the Chief Conservator endeavours to show that while the actual surplus during the last year was less than that of the previous year, it would have been greater if a royalty had been charged on the grass supplied to the Army and if the outstandings at the end of the year were added to the surplus. This does not appear to be correct, for in the previous year a larger quantity of grass was supplied to the Army without royalty, and that year also showed much greater outstandings at its close than the year under report. The fact is that the adverse circumstances of the year, of which the chief were the influenza epidemic, which caused the mortality among the staff to rise from 47 to 325, and the scarcity, which prevailed in many districts, have operated to produce a reduction in the net income made by the Department, but this result is only what was to be expected and is no reflection on the administration of the Department.

3. In paragraph 2 of the Resolution on the working of the Department in 1917-18 the Chief Commissioner summarised the work which it had done towards the prosecution of the War. In the year under report it undertook to supply a hundred thousand tons of fodder to the Director of Farms, and full arrangements were made for fulfilling the demand, but prolonged rain during the cold weather interfered seriously with the programme and the operations had to be curtailed, as much of the grass which it undertook to bale was spoiled by rain and therefore was not fit for despatch. In the end, however, over 62,000 tons was despatched, out of which the Director of Farms diverted over 10,000 tons to famine areas in Bombay, where the shortage of fodder was severe. The Chief Commissioner acknowledges the services of the Forest officers who laboured to meet this demand and also of Mr. Leftwich, late Director of Civil Supplies, who controlled the arrangements. In the current year the Army Department has asked for a much smaller amount, and it has been arranged to do all the work in four divisions. The majority of Forest officers will therefore be free to pay more attention to their ordinary duties, which were perforce to some degree interfered with by the heavy demand for fodder. In certain divisions, however, the cutting

of grass last year was most opportune. It afforded congenial and at the same time most useful work to labourers in some tracts, where the partial failure of the crops had restricted the amount of agricultural labour available.

4. Sir Benjamin Robertson has often laid stress on the necessity of improving forest communications, and he much regrets that during his term of office financial considerations and the lack of staff have seriously restricted the programme of road expansion. Something, however, has been done, and the figures which the Chief Conservator gives in paragraph 9 of his report prove its beneficial results. Mr. Osmaston tabulates the statistics for nine roads, which show how profitable this form of development is. All the roads have led to an immediate increase of income, and for some the total expenditure incurred has been more than recouped in one year in the increase of income, but to regard only the rise in revenue is to take a very restricted view of the matter. The object of the Forest Department is to place at the disposal of the public, with due regard to the needs of the future, the products of the forests, and an increase in income is merely an index of its success in making the produce so available. In the coming financial year very liberal provision has been made for productive expenditure, and the Chief Commissioner has no doubt that the money thus put into the forests will show increasingly beneficial results.

5. In paragraphs 9 and 21 of the report, the Chief Conservator mentions the experiment which is being made in Chhattisgarh of supplying wood at cheap rates to encourage the use of firewood in the place of cowdung fuel among the people of the Chhattisgarh plain. It must be frankly admitted that the results so far have not been encouraging, and they afford a curious comment on the allegation sometimes made that the burning of cowdung as fuel is entirely necessitated by the lack of firewood. If the people of the Raipur district continue to burn cowdung, with 160,000 cubic feet of firewood stacked almost at their doors and offered to them at very cheap rates, immemorial custom and a preference for cowdung fuel must be assigned as the reasons for the continuance of the practice rather than the scarcity of wood fuel. The Chief Commissioner, however, would ask the Department not to be discouraged. When he ordered the inception of this experiment, he realised that the introduction of wood fuel would be a difficult task and that Government would not have to look for financial results in the earlier stages, and he hopes that the district staff will co-operate with the Forest officials in the uphill work of inducing the cultivator to incur a small initial cost in purchasing firewood for the sake of a greater return in the shape of heavier crops due to his manure being applied to his fields instead of being burnt.

6. In paragraphs 19 and 22 of the report Mr. Osmaston mentions that the large increase in receipts from minor forest produce in the Northern Circle is largely due to the departmental exploitation of lac. It would have been better if he had explained more fully what the Forest Department is doing in this work, which is of increasing importance, and Sir Benjamin Robertson hopes that it will be more fully mentioned in next year's report. The trebling of the receipts in one year, even if allowance be made for market fluctuations and climatic conditions, shows what can be done, and the Chief Commissioner has recently permitted Mr. Harlow, Deputy Conservator of Forests, to go on deputation under the Government of India for a comprehensive enquiry into the lac question for India as a whole. He hopes that Mr. Harlow, on his return to the Provinces, will be able to utilise the knowledge he has gained in this enquiry to establish the Department's lac activities firmly on the most up-to-date lines.

7. The total number of animals grazed in the forests and the total receipts from grazing both show a decline, which was to be expected in a year when influenza most seriously interfered with the normal activities of the people. The results also no doubt prove the truth of the statement made in the report that part of the decrease was due to inadequate check by the subordinate staff, which was natural under the circumstances of the year; but of the total decline out of the total decrease of 190,000 animals as much as 100,000 was among sheep and goats, which, as the Chief Commissioner has often said, is not to be deprecated. A recent debate in the local Legislative Council shows that the policy of Government in the matter of forest grazing is not yet understood. The idea that any decrease in the number of animals grazed is necessarily an evil still holds, and there is unfortunately little sign of the public realizing that unrestricted grazing means in the end not only the destruction of the forests but also of the grazing, though the truth of this statement can be tested by anybody who takes the trouble to examine an area where grazing is unrestricted.

8. The number of forest offences again shows a decline in the past year, though there is a rise in the quinquennial average, but the Chief Conservator expresses doubt whether the smaller figures in 1918-19 are not due to poorer detection, owing to the Forest staff being unusually busy with grass operations. Dislocation of work owing to influenza, with its accompanying heavy mortality among the staff, must also be held to have interfered with detection. Sir Benjamin Robertson realizes the difficulties of the past year, but he would like to have seen a more convincing analysis of the figures on a matter which so intimately affects the convenience of the people.

9. The Chief Commissioner has asked for the temporary services of one of the Forest Engineers whom the Government of India are engaging to advise on modern methods of exploitation. While much of the forest area in the Central Provinces is not such as to lend itself to advanced methods of exploitation, such as have been successfully practised in other countries, there are problems, such as the improvement of streams so as to make them suitable for the floating of timber and bamboos, on which it is advisable to get the best advice obtainable. The working of teak in the Ailapilli forests of Chanda is also a problem to be tackled, and the Chief Conservator is already taking steps to establish a tramway and a saw-mill on the spot for its better working.

10. During the year the Chief Commissioner submitted to the Government of India his views on the recommendations of the Public Services Commission on the Forest Department, and recently the first step towards improvement has been taken by placing the pay of the Imperial Branch of the Service on a satisfactory basis, and the Chief Commissioner trusts that the full orders of the Government of India on the proposals will not be long delayed. The pay of Forest clerks has recently been improved by the grant of temporary allowances pending thorough re-organization, and the serious question of increasing the pay of subordinates is coming up for solution with that of all other low-paid branches of Government Services. Apart from rates of pay, both the report and the review show the need of strengthening the staff throughout. The development of communications, silviculture, the revision of working plans and utilization all call for more men, yet in the past five years the effective strength of the Department has of necessity seriously declined and not advanced. Sir Benjamin Robertson is therefore glad to learn that the Chief Conservator of Forests is taking advantage of the present visit of the Inspector-General of Forests to consider with his help a full scheme of re-organization to be worked up to as men become available. Even though it may be impossible in the immediate future to recruit up to the full complement of staff required, it is necessary to lay down clearly what staff is needed to cope even with the present activities of the Department, which are much greater, judged by revenue, than was contemplated when the superior staff was last re-organized, and to meet the increasing demands of the future.

11. Paragraph 18 of the review shows how severely the Department has suffered during the quinquennium by short recruitment, the temporary loan of officers to the Army and by casualties. In particular the Chief Commissioner expresses his deep regret at the untimely death during 1918-19 of Mr. McCrie, just as he attained Conservator's rank. Mr. M. Hill, C.I.E., retired in 1919 after holding charge of the Chief Conservatorship throughout most of the quinquennium, and Sir Benjamin Robertson places on record his acknowledgment of his services during a period of great difficulty. He welcomes Mr. Osmaston to the head of the Department and trusts that his term of office will be marked by a development of the Department which returning peace conditions should render possible.

ORDER.—Ordered that a copy of this Resolution be submitted to the Government of India, Revenue and Agriculture Department, and that a copy be forwarded to the Chief Conservator of Forests and to the Conservators of Forests, Northern, Southern and Berar Circles, for information and guidance; also, that it be published in the Supplement to the *Central Provinces Gazette*.

J. F. DYER,

Third Secretary to the Chief Commissioner,

Central Provinces.

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REPORT ON THE FOREST ADMINISTRATION OF THE CENTRAL PROVINCES FOR THE YEAR 1918-19.

CHAPTER I.

Constitution of State Forests.

1.—ALTERATION IN AREA.

1. The total area of the forests at the beginning and close of the year compares as follows:—

—				July 1918.	June 1919.
				Sq. miles.	Sq. miles.
Central Provinces proper	{	A Class	...	15,705	15,704
		B Class	...	622	619
Berar proper	{	A Class	...	2,495	2,495
		C Class	...	827	827
Total			...	19,649	19,645

There was a total loss of 4 sq. miles due to—

—				Gain in acres.	Loss in acres.
Afforestments and disforestments	...	...	...	...	2,087
Correction of area	...	...	...	...	7
Exchange of area	...	...	72	...	...
				72	2,161
Net loss				2,089 acres.	

The proportion of the total area of forest to that of the Province remained the same, *viz.*, one-fifth.

The area under the management of the Public Works Department remained the same, while that under the Irrigation Branch decreased by 2 sq. miles due to corrections.

2.—FOREST SETTLEMENTS.

2. The area under settlement was 3,059 sq. miles at the commencement of the year, to which was added 5,159 sq. miles during the year raising the total to 8,218 sq. miles, of which 1,046 sq. miles was finally settled leaving 7,172 sq. miles for settlement at the close of the year.

As the settlement operations were carried out by District Officers, no expenditure was incurred.

3.—DEMARICATION.

3. The total expenditure incurred on demarcation during the year was Rs. 14,466 against Rs. 16,676 in the preceding year, Rs. 462 being spent on "New Work" and Rs. 14,004 on repairs.

The work done during the year comprised the repair of all pillars over 4,942 miles of boundary line, the checking with the survey maps of 2,799 miles and the clearance, without reference to fire protection, of 7,620 miles.

The total length of boundaries at the close of the year was 34,537 against 34,587 miles at the commencement of the year. In the Southern Circle there was a reduction of 113 miles, which was partly counterbalanced by an addition of 52 and 11 miles in the Northern and Berar Circles respectively.

The five years' scheme of demarcation for all Divisions has been drawn up for systematic comparison of boundaries with the 4" map, and it is hoped that all discrepancies will shortly be brought to light and unnecessary pillars removed, the original number of pillars remaining unaltered. The work was hindered by grass operations and by influenza.

4.—SURVEYS.

4. No survey operations were undertaken during the year by the Survey of India Department, but in the North Raipur Division of the Southern Circle two forest villages were surveyed by local officers.

The Forest Map Office, Dehra Dun, has made good progress on the maps of this Province, a sum of Rs. 2,741 having been spent in the Berar Circle. A special map of the Central Provinces and Berar showing forest reserves, scale 1"=16 miles, prepared last year, was finally printed and published during the year.

5.—CONSTITUTION OF STATE FORESTS.

5. The total expenditure incurred under "Constitution of State Forests" was Rs. 31,265 against Rs. 32,172 in the previous year.

This represents, for the most part, the cost of maintaining the 31,421 miles of forest boundary, and any straightening or shortening of the latter results in a reduction in the cost of maintenance.

CHAPTER II.

1.—MANAGEMENT OF STATE FORESTS.

6. (a) *Preparation and control of regular Working Plans.*—No new working plans were undertaken during the year. In the Southern Circle orders were received on the working plans of the North and South Raipur Divisions to the effect that their prescriptions for the present were to be followed. It is, however, likely that with the opening out of roads and the demand for cheap fuel in the Chhattisgarh plains, it will shortly be found necessary to revise some of the felling series.

The area covered by sanctioned working plans is 16,545 square miles or practically the same as last year, and this represents 85 per cent of the total area of the reserves.

The provisions of the existing working plans were acted up to as far as circumstances permitted except in the Balaghat sal forests, where three out of nine compartments of the Baihar Range, in which felling of sal trees was allowed in the previous year to provide sleepers for the Munitions Board, were reopened and the remaining marked trees were felled. A revised table of fellings has been drawn up and sanctioned, which will come into force from 1st July 1921, when the Bengal Timber Trading Company's lease expires. The regular fellings by the Bengal Timber Trading Company in both the Baihar and the Raigarh Ranges are in arrears of the prescriptions, but the Company have been displaying greater activity and will possibly make up these arrears before their lease expires.

Many of the existing old plans, especially in the Northern Circle, urgently require revision, and until such time as officers are available to do this work, it is proposed to draw up working schemes in cases where the old working plans are out of date and unworkable. In view of the opening up of the district by road and railway communications, it is especially necessary that the Betul Division plan should be revised as soon as an Imperial Officer is available to undertake the work.

7. (b) *Preliminary Working Plan reports.*—The preliminary plan for the Sironcha forests of the South Chanda Division was sanctioned in the previous year and the draft working plan is now ready. The Local Administration has been asked to depute a Revenue Officer to examine it during the present cold weather.

8. (c) *Plans of Operations.*—These were prepared as usual for all divisions and were acted up to as circumstances permitted. Owing to the prevalence of scarcity it was found necessary to extend the sanctioned plans of operations to include enlarged schemes of road works, especially in the Melghat, Amraoti and Betul Divisions.

2.—COMMUNICATIONS AND BUILDINGS.

9. (a) *Roads and Bridges.*—The expenditure incurred on new works and repairs was Rs. 1,26,158 against Rs. 98,060 in 1917-18. The cost of new roads was Rs. 65,942 against Rs. 53,997:—

	Miles.	Cost. Rs.
New roads, including causeways ...	170	63,869
Bridle paths ...	50	498
Others ...	157	1,575
	<u>377</u>	<u>65,942</u>

During the year a good deal of attention has been paid to the improvement of roads, of which the Kurud-Mohdi section of the Kurud-Nagri road and the Dhamtari-Sihawa road in the South Raipur Division may be specially mentioned. These roads when completed will be the chief lines of export from the extensive forests of the South Raipur Division and will greatly assist in the supply of firewood at cheap rates to the people of the Chhattisgarh plains. It is the custom of these people at present to burn cowdung, and it will no doubt be somewhat difficult to induce them to change their habits and burn wood. It is hoped, however, to effect this most desirable change and with this object in view practical demonstrations of the value of cowdung for manurial purposes are about to be undertaken by the Agriculture Department in the vicinity of our fuel depôts. Should these prove successful we shall have made a great step forward both in the improvement of the agricultural outlook and in creating a market for the large quantities of inferior and badly grown wood only fit for fuel. Again, money invested in roads is certain to come back in increased receipts, and that this is the case may be gathered from the following tabular statement of a number of roads recently constructed which have resulted in higher prices being paid for the timber exploited by their agency:—

Roads.	Cost.	Revenue.		
		Before construction.	After construction.	
	Rs.	Rs.	Rs.	
Northern Circle ...	Rukher-Chandrapur ...	2,700	9,500	11,500
	Sakata-Sarekha ...	866	510	1,850
	Rukher-Satadehi ...	507	1,750	2,600
	Ambari-Tikhari road ...	2,199	1,275	1,600
Southern Circle ...	Maharaji-Girod ...	5,764	4,009	9,047
	Kewradih Ghat road ...	894	1,160	3,150
	Dugli-Jawarra ...	1,867	11,500	13,500
Berar Circle ...	Karwani-Sonarbadi ...	696	6,000	7,000
	Nanda-Bhaisdehi ...	25,650	6,000	18,000
Total ...	41,143	41,704	68,227	

The above figures show that in the majority of instances the cost of such export roads is more than paid for by the increased receipts *in a single year*.

The value of forest produce depending almost entirely on its accessibility, the policy of pushing on the construction of export roads is evidently one to be supported and developed to the utmost. Money spent on such road works could scarcely be better invested, and it must also be borne in mind that the

longer the execution of such works is deferred, the more will they cost owing to the steady rise which is taking place in labour rates.

The construction and improvement of roads were undertaken as famine relief in—

			Miles.
Northern Circle ...	Jubbulpore and Mandla Divisions ...	24,400	
Southern Circle ...	Raipur, Bilaspur and Balaghat Divisions ...	18,270	
Berar Circle ...	Melghat, Amraoti and Betul Divisions ...	9,043	

Extensive repairs were carried out on forest roads and bridges, the cost of which amounted to Rs. 60,216 against Rs. 47,135 in the preceding year, an increase of Rs. 13,081.

10. (b) *Buildings*.—The amount spent was Rs. 65,503 against Rs. 86,896 in 1917-18, the outlay on new works being Rs. 30,846 against Rs. 51,773 of the previous year. The greater part of this was incurred on the construction of houses for the subordinate establishment. Much still remains to be done towards constructing suitable quarters for subordinates in the Northern and Berar Circles, as it is essential that they should be properly housed, especially in unhealthy tracts. The expenditure on repairs was Rs. 43,657 against Rs. 43,854 in 1917-18. It is hoped that better quarters with a large compound for growing vegetables, etc., will attract a better class of men as Forest Guards, as at present it is difficult to obtain good men.

11. (c) *Miscellaneous Works*.—The total expenditure on tanks, wells and other works amounted to Rs. 33,136 as compared with Rs. 21,082 in 1917-18. The amount spent on new tanks was Rs. 8,763 and on new wells Rs. 12,555, the expenditure on repairs being Rs. 1,848 and Rs. 4,615 respectively. In consequence of the allotment of relief funds amounting to Rs. 17,200 with a view to provide work for the people affected by scarcity in certain parts of the Chhattisgarh Division, a good deal of useful work was done under this head and the Divisional Forest Officers, North and South Raipur Divisions, showed commendable activity under arduous conditions in pushing on the work of construction and improvement of tanks. In Berar Circle steps were taken to relieve scarcity by the construction of new wells, temporary bunding of nallas and digging of jhiras. A special grant of Rs. 3,640 was sanctioned in this connection. The question of improving the water-supply in grazing grounds by the construction of temporary bunds across suitable nallas received considerable attention during the year and steps have been taken to further systematize this work in future.

3.—PROTECTION OF FORESTS.

12. (a) *General Protection*.—The following is a detail of new cases of the year:—

	1918-19. New cases.	Average of past three years.
(1) Injury to forests by fire ...	215	296
(2) Unauthorised fellings or removal ...	4,463	5,665
(3) Unauthorised grazing ...	6,087	7,046
(4) Other offences ...	565	648
Total ...	11,330	13,655

The decrease under each head has been shared by all Circles and is attributed to (1) the staff being occupied on grass operations, etc., (2) heavy mortality due to the influenza epidemic, and (3) the famine concessions granted during the year. It seems a little doubtful whether there was actually a falling off in the number of offences committed or whether the reduction was not merely in the number of cases detected, the forest staff being unusually busy over grass

operations. There were no cases of importance except that under "unauthorised fellings"; numerous thefts of teak poles occurred in the Bargi Range of the Jubbulpore-Narsinghpur Division. One Forester was given a reward for detecting seven cases involving 375 poles worth Rs. 174. A daring theft of teak timber occurred again in the Bachai Range of the Jubbulpore-Narsinghpur Division, and Rs. 150 compensation was recovered from the offenders, while under "unauthorised grazing" a smart capture was effected by the Range Officers of Yeotmal and Darwha Ranges; Yeotmal Division, who, acting in concert with their staff, rounded up a herd of 1,764 sheep and goats, the owners of which had evaded taking out passes and resisted attempts at seizure. Compensation to the value of Rs. 782-4-0 in addition to Rs. 866, grazing dues, was recovered from the offenders.

The statement of offences of the three circles shows the following results :—

I.—Cases taken into Court, 1918-19	...	...	153
Do. do. 1917-18	...	...	215
II.—Cases compounded and let off with warning, 1918-19	...	...	11,976
Do. do. 1917-18	...	...	12,974
III.—Undetected cases, 1918-19	...	...	559
Do. do. 1917-18	...	...	608
		Total 1918-19	12,688
		Total 1917-18.	13,797

The total number of cases fell by 1,109. Out of the 153 cases taken into Court 107 resulted in convictions, 30 in acquittals and 16 remained pending at the close of the year, the percentage of conviction being 70. The average compensation per case compounded was Rs. 9 and per person Rs. 3-4-0. Suitable rewards were given in important cases of a serious nature in the detection of which special tact and honesty had been displayed. The rewards paid were Rs. 467 against Rs. 741 in 1917-18. The Conservator, Southern Circle, remarks that the Divisional Forest Officer, South Raipur, justifies the grant of rewards in carefully selected cases on the ground that in Chhattisgarh the bribing of detecting officers is frequently attempted. This constitutes a striking criticism on the morality of a class which can be moved by money to do its duty or neglect it.

13. (b) *Protection from fire.*—The season was more favourable for fire conservancy than last year owing to rain during the hot months.

The results of fire protection during the last three years compare as follows :—

		Square miles.
Area attempted	1916-17	10,336
	1917-18	9,472
	1918-19	9,700
Failures	1916-17	92
	1917-18	159
	1918-19	141
Area successfully protected	1916-17	10,244
	1917-18	9,312
	1918-19	9,559
Total cost of protection	1916-17	Rs. 94,085
	1917-18	" 85,862
	1918-19	" 84,237
Average cost of protection per square mile.	1916-17	Rs. 9-1-0
	1917-18	" 9-1-0
	1918-19	" 8-11-0

The area under protection rose from 9,472 square miles to 9,700. There was an increase of 275 square miles in the Southern Circle and 339 square miles in Berar Circle, which was largely counterbalanced by a decrease of 386 square miles in the Northern Circle. Early burning in certain divisions was responsible for the reduction, whereas the temporary abandonment of early burning in some divisions and the bringing under systematic protection of more areas to meet the anticipated supply of fodder for the Military Department is responsible for the increase. The cost of protection was a little less than last year, *i. e.*, Rs. 8-11-0 against Rs. 9-1-0 per mile. The area burnt was 141 square miles against 159 square miles and was made up of 210 fires against 234. The largest number of

fires occurred in Damoh, Chhindwara, Bhandara and Nimar. It is of interest to note that only 1,085 acres against 15,517 last year were burnt in the Bilaspur Division. Great credit is due to the Divisional Forest Officer, Mr. Anthony, for the results obtained, as the Pantora Range was notorious in the past for repeated fires over extensive areas.

The origin of the fires was as follows:—

		Number of fires.	Area burnt.
			Acres.
A.	Burning fire lines ...	37	10,423
B.	Crossing exterior lines...	28	34,492
C.	Persons in forests (accidents) ...	22	5,533
D.	Do. (incendiary) ...	18	3,877
E.	Railway engines ...	9	394
F.	Lightning ...	3	1,147
G.	Causes unknown ...	93	34,522
Total ...		210	90,387

14. (c) *Protection from Cattle.*—The following table shows the areas open and closed to grazing:—

		1918-19.	1917-18.
		Sq. miles.	Sq. miles.
Area closed to animals—			
	Whole year ...	3,123	3,168
	Part of the year ...	238	193
While the area open to animals stood at—			
	Whole year ...	5,560	5,091
Closed to browsers—			
	Whole year ...	10,678	11,197
	Part of the year ...	47	...

In the Jubbulpore-Narsinghpur Division, all areas except the coupes most recently felled over were thrown open to free grazing in December 1918 as a concession to the people in time of distress, due to the failure of the kharif crops.

In the Yeotmal Division cattle were again admitted during the hot weather months into coupes reserved for fodder grass where the demand for grass was small. This concession was highly appreciated and has also proved beneficial by the removal of considerable quantities of inflammable materials, thereby minimizing the danger from fire. All grass reserves in the Berar Circle were thrown open to grazing after the standing grass had been cut and removed, *i. e.*, from February to May.

The total number of cattle impounded during the year was 10,685 against 10,932 with a difference of 247 animals in favour of the year. The Conservator remarks that the Divisional Forest Officer, Nagpur-Wardha, does not approve of allowing Forest Guards to impound cattle, as it puts too great a power into the hands of low-paid subordinates. There would seem to be a good deal in favour of this view, and the Chief Conservator intends discussing this question at the next Conservators' Conference.

15. (d) *Protection against injuries from natural causes.—Frost.*—The effects of frost during the year were slight in a few Divisions of the Northern Circle, whereas the Southern and Berar Circles entirely escaped damage.

Considerable local damage to tree growth is reported to have been caused by wind in Jubbulpore-Narsinghpur, Bilaspur and South Raipur Divisions, whereas hail was responsible for damage to tree growth as well as to grass in Yeotmal.

Insects.—No serious cases of damage from insects were observed in the Northern Circle.

In the Balaghat sâl areas borers were not noticeable, but attacks of fungus render much of the timber unsound.

Teak defoliators were noticed in a few isolated localities in the Yeotmal Division and in the Tapti Valley of the Betul Division. In the latter division the larvæ of the bug (*Phromnia marginella*) was again observed killing jamrasi (*E. Glaucum*) trees down to the ground level. This bug does not appear to attack other trees.

Drought.—In Damoh the excessive heat during May 1919 killed about 20 per cent of the lac crop. There is still, however, an abundant crop of seed lac on the trees and provided favourable conditions continue, next year's crop should be better than that of the present year. Drought was particularly bad this year in Nimar and Betul, whereby the growth of seedlings and coppice shoots was retarded.

Loranthus is reported to have been removed from 174 mohwa, achar and tendu trees in North Mandla, 3,805 trees in Jubbulpore and 2,886 in Damoh at a cost of Rs. 41.

Wild Animals.—Some damage from nil-gai and chital browsing on the coppice shoots is reported in the South Raipur Division in the areas recently felled and closed to grazing, more particularly in the North Sihawa Range.

Climbers.—Good progress was made in the cutting of climbers in all circles. The *ironi* creeper which is abundant in the Southern Circle was destroyed in large quantities by the method referred to in last year's report.

4.—NATURAL REPRODUCTION.

16. (i) *State of existing reproduction.*—The outstanding feature of the year is the seeding of the katang bamboo, which was general in the Northern and Southern Circles. The last recorded general flowering of this bamboo in the Central Provinces was in 1885, which fixes the life of this species at about 34 years.

Reproduction from seed is reported to be generally satisfactory in the Northern Circle. In the South Mandla Division the seeding of sal and teak was satisfactory and of other species fair. In Saugor the year was characterised by a very profuse and general seeding of tendu.

In the Southern Circle the heavy seeding of sal in 1918 resulted in a good crop of seedlings, which owing to the rain in February and March remained green throughout the year. In South Chanda the bijasal also seeded well, and this was followed by successful germination. In the Telinkheri plantation in Nagpur sandal have established themselves under the bamboo, and it will be interesting to note whether these sandal will survive the death of the bamboo. Coppice reproduction was as usual excellent.

In the Berar Circle owing to the scanty rainfall natural regeneration was very poor, seedlings being unable to establish themselves before the dry season commenced.

(ii) *Measures for inducing or aiding reproduction.*—Reproduction from coppice was good in North Mandla, Seoni, Chhindwara and moderate in Jubbulpore-Narsinghpur and Saugor, where it was affected by the short rainfall. The species which coppiced best were teak, saj, aonlia and lendia. A certain amount of broadcast sowing was done in blanks of coupes recently worked in the Jubbulpore-Narsinghpur Division, but the results have not yet made themselves apparent. Freeing of teak seedlings and coppice shoots was done in all divisions where cutting back operations were carried out. The sowing in South Raipur which was done in 1916 has begun to show a fair number of seedlings chiefly jamun, teak, sal, bija, harra and *Wendlandia exserta*. The teak and anjan sowings made in Allapilli have not so far been successful, but the failure of the rains probably accounts for this and it is not unlikely that next year may show some results, as teak seeds sometimes take two years to germinate.

Tending operations in natural crops.—The cutting back, thinning and other operations for the improvement of the growing stock were carried out over an area of 36,104 acres as against 32,263 acres in the previous year.

It is satisfactory to observe that these important operations are receiving year by year greater attention. As was to be expected little could be done where grass operations were in progress.

5.—ARTIFICIAL REPRODUCTION.

17. I.—*Regular Plantations*.—At the beginning of the year the total area under these plantations was 1,507 acres, to which 819 acres were added, giving a total of 2,325 acres.

The above extension is due to sowings of a shrub *cassia auriculata* (tarwad) with a view to supplying large quantities of bark and twigs for tanning. The work is still in the experimental stage, but good results are being obtained in places and the plant appears to be easily propagated in suitable localities. The work is being continued.

II.—*Taungya Plantations*.—These are restricted to certain babul forests in the Berar Circle. To the 6,594 acres under cultivation 738 acres was added during the year and 206 acres excluded or resumed as being fully stocked with babul, the area at the close of the year being 7,126. Of the 738 acres added during the year 395 acres was leased out for Rs. 19,799 on a seven years' lease, at the end of which, it is hoped, they will be fully re-stocked.

III.—*Other forms of artificial reproduction*.—In the Damoh Division of the Northern Circle harra and teak seed was sown, but the result was not satisfactory. In the Balaghat Division of the Southern Circle further efforts were made at Supkhar with *Pinus khasya* but without success. This apparently was due to old seed, but the species is not suited to the locality and the experiment will not be repeated. Some of the *pinus longifolia* at Supkhar were thinned. Experimental sowings of frost-hardy species, viz., *cinnamomum camphora*, *grevillia robusta* and *toon* were also made at Supkhar but without success. Similar sowings in Bilaspur were equally unsuccessful.

In the Berar Circle bamboo nurseries were maintained in Buldana, Yeotmal and Akola. The work in Buldana was curtailed for want of rain. Sandal seed was also sown in suitable localities in Buldana and Akola, but it failed to germinate owing to scanty rainfall.

6.—EXPLOITATION—MAJOR FOREST PRODUCE.

18. The following details give the various silvicultural systems in force and the area dealt with under each :—

		1918-19.	1917-18.
		Acres.	Acres.
Clear fellings	...	1,728	918
Selection fellings	...	5,024	5,248
Improvement fellings	...	110,899	133,493
Coppice with standards	...	60,748	68,679
Total	...	178,399	208,338

The total area worked fell by 29,939 acres, the decrease being shared by all the Circles, it being greatest under improvement fellings and coppice with standards. This is attributed to the scarcity of labour on account of the severe outbreak of influenza early in the cold weather and of cholera in the summer. Moreover, most of the available supply of labour and carts were required for Army grass operations, while shortage of waggons interfered with the export of timber and fuel.

Clear Fellings.—These were carried out in the Southern and Berar Circles only, over an area of 1,728 acres against 918 of the previous year. The increase is due to this method having been introduced in the Ainsa felling series of the Warora Range with a view to reducing the number of pigs, which are numerous near Warora and are destructive to field crops.

Selection Fellings.—The area worked in the Northern and Southern Circles was 5,024 acres against 5,248 in the previous year. This includes sal fellings in South Mandla and selected teak and bija for the Indian Munitions Board and for the Jubbulpore Carriage Factory, respectively, in North Mandla. In the Southern Circle owing to the cancellation of Messrs. Bhickraj Sagarmull Bagla's lease in the Allapilli forests of the South Chanda Division, 490 acres was worked departmentally, against 40 acres last year. The work undertaken consisted in the removal of overmature trees interfering with the proper development of young growth. Special fellings were also undertaken in the Betul Division to supply 2,500 teak poles to the Public Works Department for military barracks.

Improvement Fellings.—The area dealt with under this system was 110,899 acres against 133,493 of the previous year. The Conservator, Northern Circle, remarks that it is now time that there should be a revision of this make-shift system, which has been prescribed in the old working plans prepared many years ago when there was no demand on the forests. Where there is a full demand on poor class forests which are only fit for the production of small poles and fuel and where there is no fear of frost, this system should give way to the method of "coppice with standards". There is undoubtedly much truth in the above remarks, and no time should be lost in substituting for the method of improvement fellings a system of more concentrated and intense working. Again the valuable felling series of Kaneri, Sirkia and Mathui of the Chandgarh Range, Nimar Division, lying north of the Nerbudda containing much teak and other produce, is difficult to export, the usual line being by floating down the Nerbudda to Kherighat, where there is always a large demand. There is unfortunately one obstacle to floating, *viz.* the Dharighat falls where rafts have to be completely broken up and all produce has to be carried some half a mile to below the fall. At present this trebles the cost of floating. A scheme for the improvement of the falls for floating is under consideration.

Coppice with standards fellings.—The area open was 60,748 acres against 63,679 acres. The decrease of 7,931 acres was shared by all Circles. In Berar it was due to lack of demand.

In addition to the above, unregulated fellings had to be carried out in the Northern Circle due to commuters who had paid the fee in advance in the Jubbulpore District before the sanction of Government was received to the abolition of the commutation system and in Berar Circle the "C" class areas were occasionally resorted to for small building wood for local consumption only under special permits.

7.—EXPLOITATION—MINOR PRODUCE.

19. The value of various kinds of minor produce (except grazing) removed during the year compares with the preceding year as follows:—

Produce.	Northern Circle.		Southern Circle.		Berar Circle.		Total.		Difference.
	1917-18.	1918-19.	1917-18.	1918-19.	1917-18.	1918-19.	1917-18.	1918-19.	
1	2	3	4	5	6	7	8	9	10
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Bamboos	84,574	66,228	96,566	87,161	1,20,801	76,969	3,01,941	2,30,358	-71,583
Harra	12,953	14,133	20,019	34,285	3,010	4,540	35,982	52,958	+16,976
Lac	30,993	1,11,094	7,886	10,958	4,400	6,828	43,279	1,23,880	+85,601
Mahua and achar	6,328	9,339	5,322	7,165	190	139	11,840	16,644	+4,804
Hides and horns	7,506	6,582	3,722	2,473	4,935	6,025	16,253	15,080	-1,173
Fodder grass	34,068	38,326	6,651	7,056	1,10,539	1,31,827	1,51,258	1,77,209	+25,951
Thatching grass	...	...	54,751	60,776	224	313	54,975	61,089	+6,114
Rusa grass	664	783	...	...	11,609	17,030	12,273	17,813	+5,540
Rusa oil	...	...	...	...	255	75	255	75	-180
Catechu	5,841	4,106	...	...	...	...	5,841	4,106	-1,735
Minerals	2,834	3,572	3,098	1,358	10,570	7,250	16,502	12,180	-4,322
Miscellaneous	52,927	38,630	21,000	27,280	26,670	31,277	1,00,597	97,187	-3,410
Total	2,38,778	2,92,793	2,19,015	2,38,513	2,93,203	2,82,273	7,50,956	8,13,579	+62,583
Difference	+54,015		+19,498		-10,930		+62,583		

The total income under minor produce (except grazing) for the Province as a whole rose by Rs. 62,583 in spite of the adverse condition of scarcity. The increase has been shared by the Northern and Southern Circles but is partly counterbalanced by the Berar Circle. The main decrease amounting to Rs. 71,583 was under bamboos and was shared by all Circles and was due to the shortage of wagons for export and to want of labour on account of influenza. The products under which increases mainly occurred were (1) harra, (2) lac, (3) mahua and

achar, (4) fodder grass, and (5) minerals; there being decreases under the remaining kinds. The rise in lac of Rs. 85,601 over the previous year's figures was contributed by all Divisions, Damoh alone giving Rs. 74,792. The arrangements with the Esociet Company for the collection of the Government lac crop in the Northern Circle proved unsatisfactory and have had to be terminated. This year the work was therefore taken over and carried out departmentally resulting in a very substantial improvement. The increases under other items were due to better sales and to the supply of grass to the Army Department.

The increase under harra was mainly apparent, being due to recovery of arrear instalments of the last year, while under "miscellaneous" it was due to the sale of tendu leaves for rolling cigarettes which is becoming an important industry in the Bhandara Division.

20. *Grazing.*—The total number of animals grazed in the Government forests during the year, the value of the grazing if calculated at full rates and the actual revenue realized are compared with the corresponding figures of the preceding year in the following statement:—

Animals.	Northern Circle.		Southern Circle.		Berar Circle.		Total.		
	1917-18.	1918-19.	1917-18.	1918-19.	1917-18.	1918-19.	1917-18.	1918-19.	
Buffaloes	148,279	149,380	61,355	60,295	174,472	160,096	384,106	369,771	
Cows and bullocks	944,700	928,405	551,141	529,033	1,191,317	1,153,693	2,687,158	2,611,131	
Sheep and goats	31,191	22,109	71,216	45,103	257,192	192,419	359,599	259,631	
Other animals	1,117	1,506	163	99	2,341	2,571	3,621	4,176	
Total	1,125,287	1,101,400	683,875	634,530	1,625,322	1,508,779	3,434,484	3,244,709	
Difference	-23,887		-49,345		-1,16,543		-189,775		
Value at full rates	Rs. 7,95,785	Rs. 7,53,132	Rs. 5,27,167	Rs. 5,08,902	Rs. 10,38,862	Rs. 10,32,500	Rs. 23,61,814	Rs. 23,34,534	
Difference	-2,653		-18,265		-6,362		-27,280		
Revenue actually realized.	Revenue	4,00,127	3,77,916	2,10,877	2,00,782	7,06,149	6,83,913	13,17,153	12,62,611
	Transit and nomadic	35,219	26,848	9,686	9,516	11,897	13,362	56,802	49,726
Total Rs.	4,35,346	4,04,764	2,20,563	2,10,298	7,18,046	6,97,275	13,73,955	13,12,337	
Difference	-30,582		-10,265		-20,771		-61,618		

There has been a reduction of 189,775 animals for the Province as a whole resulting in the net loss of revenue of Rs. 61,618, which has been shared by all Circles. In the Northern Circle the fall is attributed in North Mandla to the cattle resorting to ryotwari areas where the grazing was free, whereas in South Mandla it was due to the prevalence of cattle disease and to influenza, owing to which villagers from outside could not visit the district. It is also attributed to inadequate check by the subordinates. In Saugor the decrease was also reported to be due to inadequate check by the subordinates, as many villagers send their cattle early in the rains to Government forests, and unless check is effected in July or August, they evade payment.

In the Southern Circle the decrease was common to all Divisions except Bhandara and Bilaspur, both being comparatively unimportant in this respect. In Chanda a heavy mortality of cattle occurred in 1917 and 1918. Epidemics, as pointed out by the Deputy Commissioner, get rid of old, useless animals which are the first to be attacked, so that they were not an unmixed evil. In Balaghat

the fall is said to be due to the less number sent from other districts. The restrictions of the working plan have possibly partly contributed to the decrease. In Nagpur-Wardha and Bilaspur, though the number of cattle grazed remained the same, those on concession rates increased. In Raipur the influenza and shortage of staff affected the check of cattle on which in reality the whole grazing arrangements depend. Owners are in the habit of licensing only part of their cattle and then grazing all of them. In Sironcha an extension up to February 1919 was given within which to take out licenses; this was greatly appreciated by the people.

In Berar Circle a reduction occurred in the number of animals grazed in all Divisions except the Melghat and Betul. The increase in the Melghat is attributed to the scarcity of grass and partial failure of crops in the Berar plains, and in Betul to the shortage of fodder and water outside Government forests. Owing to short rainfall in the Amraoti District grazing was poor and many of the cattle which ordinarily graze in the Morsi and Ellichpur Ranges were probably sent to the Melghat and to Betul. In Buldana the main decrease was under sheep and goats which were grazed in limited numbers in "C" class forest during the year, as the rates for these animals were raised. The main decrease in Akola was under cows and bullocks due to want of sufficient grass in the forest and to mortality among the village cattle by disease. The decrease in Nimar occurred chiefly in the Khandwa and Singaji Ranges. In Yeotmal the fall is due to shortage of money and high prices of food grain. Also owing to rumours of grazing being free, people neglected to make provision and trusted to being able to graze illicitly or in Izara lands. In Betul, owing to poorness of agricultural crops, deferred collection of grazing dues was permitted in the Asir, Ranipur, Bhawargarh and Saoligarh Ranges to owners of cattle resident in the district, *i. e.*, unstamped passes were issued for cattle in these tracts during July, the dues being recovered in November when the passes or licenses were duly stamped. The total value in respect of which deferred collection was granted was Rs. 16,770, of which all but Rs. 40 was recovered by the close of the year.

The grazing incidence for the whole Province on an average stood at 4 acres per head. The value of grazing concessions was Rs. 10,49,097 against Rs. 10,44,661.

8.—AGENCY OF EXPLOITATION—DEPARTMENTAL AGENCY.

21. The outturn of major forest produce in cubic feet and value of minor produce extracted from the forests by departmental agency compares with the previous year's figures as below :—

Produce.	Northern Circle.		Southern Circle.		Berar Circle.		Total.	
	1917-18.	1918-19.	1917-18.	1918-19.	1917-18.	1918-19.	1917-18.	1918-19.
	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.
Major { Timber	409	388	328	444	203	192	940	1,024
{ Fuel	493	463	116	331	207	339	816	1,133
Total	902	851	444	775	410	531	1,756	2,157
Difference	-51		+331		+121		+401	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Bamboos	4,084	2,475	1,281	8,089	857	750	6,222	11,314
Grass	723	10,416	6,646	2,571	2,000	3,175	9,369	16,162
Others	12,684	1,01,716	13,991	2,400	1,826	2,844	28,501	1,06,960
Total Rs.	17,491	1,14,607	21,918	13,050	4,683	6,769	44,092	1,34,436
Difference	+97,116		-8,858		+2,086		+90,344	

Major Produce.—The main increase under timber was due to the departmental operations begun last year in South Chanda being continued on a larger scale owing to the cancellation of Messrs. Bhickraj Sagarmull Bagla's contract from July 1918. It appears that 307,525 cubic feet of teak logs was obtained in the forests. 85,416 cubic feet was carted to Allapilli depôt, of which 20,506 cubic feet was taken to Ballarshah and sold

there. The demand for teak at this latter depôt is considerable, but at present the stock of seasoned timber is limited; unseasoned logs have, however, also been sold. Logs, both round and rough-hewn, and scantlings, aggregating 41,145 cubic feet of teak and 408 cubic feet of haldu, bija, shisham and tendu were also extracted for sale at Ballarshah. Of the quantity sold at this depôt,—

			Cubic feet.
Teak logs	...	...	10,434
Teak scantlings	...	...	1,334
Bija scantlings	...	...	178

were supplied to the Public Works Department. The magnitude of these operations indicates the necessity for a tramway and saw mill, sanction for which has been received since the close of the year.

There were considerable difficulties to contend with. Influenza reduced and weakened the labour supply while grain had to be imported. Mr. Carr deserves credit for a successful year's work. He was ably supported by Mr. Hore, Extra-Assistant Conservator, and by the Allapilli staff.

Departmental operations in South Raipur for the supply of firewood at cheap rates to the people of Chhattisgarh were started. The expenditure incurred on this was Rs. 11,521, while the receipts during the year were Rs. 1,773 only, but 159,768 cubic feet of firewood worth Rs. 20,969 remained unsold at the close of the year. These operations were undertaken with a view to encourage the use of firewood among the people of the Chhattisgarh plain thereby restricting the burning of cowdung which will be available as manure on areas to be irrigated by canals. Profit has not been looked for at present. Depôts have been opened at Raipur, Dhamtari and Abhanpur, and arrangements are being made for two others. Where cowdung has a sale, firewood can compete with it, but it will be difficult to persuade the villager that it pays him to buy firewood rather than burn cowdung, which may cost him nothing and which he thinks suits him better.

22. *Minor Forest Produce.*—The increase of Rs. 90,344 over the last year's working was due to extensive propagation and collection of lac in Damoh. It is confidently expected that the outturn of lac will be largely increased in the future under the most up-to-date methods of cultivation and collection combined with efficient watching. It must however be borne in mind that the lac crop is largely influenced by climatic conditions and when these are unfavourable the propagation of the lac insect, the outturn of lac is bound to be correspondingly low. The grass operations undertaken for the Army Department were also responsible for an increase under this head. The other variations are unimportant.

23. *Purchasers.*—The extent to which major and minor produce was extracted during the year as compared with the previous year is given below:—

Produce.	Northern Circle.		Southern Circle.		Berar Circle.		Total.	
	1917-18.	1918-19.	1917-18.	1918-19.	1917-18.	1918-19.	1917-18.	1918-19.
	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.	Cft. in thousands.
Major Produce { Timber	2,167	2,413	4,608	3,956	1,131	888	7,906	7,257
{ Fuel	4,677	3,945	15,219	16,452	2,241	1,905	22,137	22,302
Total	6,844	6,358	19,827	20,408	3,372	2,793	30,043	29,559
Difference		-486		+581		-579		-484
Minor Produce { Bamboos	Rs. 78,438	Rs. 62,235	Rs. 93,167	Rs. 71,517	Rs. 1,14,895	Rs. 71,487	Rs. 2,86,500	Rs. 2,05,239
{ Grass	22,820	23,116	49,700	50,749	1,05,905	1,20,410	1,78,425	1,94,275
{ Grazing	4,35,346	4,04,764	2,20,563	2,10,298	7,18,046	6,97,275	13,73,955	13,12,337
{ Other	1,02,065	65,126	43,445	67,071	53,342	56,569	1,98,852	1,88,766
Total Rs.	6,38,669	5,55,241	4,06,875	3,99,635	9,92,118	9,45,741	20,37,732	19,00,617
Difference		-83,428		-7,240		-46,447		-1,37,115

Major Produce.—The fall of 649,000 cubic feet in the outturn of timber of the year was shared by all Circles and is attributed mainly to the fact that a number of coupes remained unworked owing to depletion of labour through influenza and grass operations and also to the market being dull on account of the dearness of food. There was a small increase in the outturn of fuel, *vis.*, 165,000 cubic feet, which was partly due to shortage of coal for cotton factories, which had to depend on wood fuel obtained from Government forests.

Minor Produce.—The decrease in the value of minor produce was Rs. 1,37,115 on the previous year's figures and this was shared by all Circles. Depleted labour and shortage of wagons prevented the full development of the trade and extraction of minor produce.

In Betul the auction sale of bamboos on the monopoly system was tried for the first time with the object of encouraging export by rail out of the Province by the larger contractors as opposed to the ordinary "open license system." The new system is reported to have given every hope of success, but unfortunately wagon difficulties prevented its full development. About 714 tons of Kahu and Aonlia bark were supplied to Messrs. Cooper, Allen & Co., Cawnpore, at an uniform rate of Re. 1 per maund free on rail, the rate having been settled by the firm with the contractor. With a sufficient supply of tarwad (*cassia auriculata*) it seems doubtful, now that the inflated demands for leather due to the war have fallen, if these barks will be able to be exported in the future at a profit.

RIGHTS, PRIVILEGES AND FREE GRANTS.

24. *Right-holders.*—These are confined to the Berar Circle only. The produce removed by this agency is as follows:—

				1918-19.		1917-18.	
				Cub. ft. in thousands.	Value Rs.	Cub. ft. in thousands.	Value Rs.
Major produce.	Timber	...	...	66	= 2,212	66	= 2,212
		Fuel	...	674	= 27,160	682	= 22,410
	Total	...	...	740	= 24,372	748	= 24,622
Minor produce.	Bamboos	...	..	...	3,931	...	3,931
	Fodder grass	...	...	...	953	...	953
	Grazing	...	...	...	375	...	375
	Other	...	...	...	3,485	...	3,485
Total	...	...	...	8,744	...	8,744	

The above are estimated figures and include concessions granted to people in "C" class forests in Berar proper.

The right-holders proper are villagers of Panala in Yeotmal Division who graze 250 head of cattle in the Marwari reserve and Gossains of Topowan temple in Akola Division who graze 125 head free.

25. *Privileges or Concessions.*—The produce sold at partial rates fall under this head, the details of which are—

		1918-19.		1917-18.	
		Cubic feet in thousands.	Value Rs.	Cubic feet in thousands.	Value Rs.
Major Produce.	Timber ...	3	84	6	582
	Fuel ...	5,129	27,903	4,698	24,283
	Total ...	5,132	27,987	4,704	24,865
Minor Produce.	Bamboos ...	...	10,113	...	8,079
	Grass ...	...	28,400	...	99,576
	Grazing ...	...	9,12,694	...	9,01,869
	Other ...	...	7,623	...	3,762
Total ...	...	9,58,830	...	10,13,286	

The above concessions vary in each Circle, and in the Northern Circle are confined to grazing only.

26. *Free grants.*—The following are the details of produce with its value removed by free grantees :—

		1918-19.		1917-18.	
		Cubic feet in thousands.	Value Rs.	Cubic feet in thousands.	Value Rs.
Major Produce.	Timber ...	217	13,646	169	12,636
	Fuel ...	2,193	36,069	1,597	26,432
	Total ...	2,410	49,715	1,766	39,068
Minor Produce.	Bamboos ...	...	9,874	...	5,288
	Grass ...	...	26,595	...	17,262
	Grazing ...	...	1,58,906	...	1,42,417
	Other ...	...	43,246	...	22,142
Total ...	...	2,38,621	...	1,77,109	

The fluctuations in quantities of produce extracted under this head are always difficult to account for, as they vary according to a variety of circumstances.

Free grants were made to forest villages for home consumption and to the general public whose houses were burnt by fire.

A noteworthy incident of the year was the free grant of building timber to certain villagers of the Balaghat district whose houses were demolished by a flood in the Wainganga River. A similar concession was offered to the villagers of Bhandara district but was not taken advantage of.

Free grants of grass, edible products and bamboos were made to the people on account of scarcity.

In North Chanda free grants of grass were made to villagers who assisted in the Army grass operations.

27. *Outturn and sources of forest produce.*—The total outturn of major and minor produce by all agencies for the Province as a whole for the year under report compares with last year as follows:—

		1918-19. Cubic feet in thousands.	1917-18. Cubic feet in thousands.
Major Produce	Timber	8,564	9,081
	Fuel	26,312	25,232
	Total	34,876	34,313
		Value.	Value.
		Rs.	Rs.
Minor Produce	Bamboos	2,30,358	3,01,941
	Grass	2,37,985	2,06,233
	Grazing	14,71,618	15,16,747
	Other produce	3,42,457	2,42,756
Total		22,82,418	22,67,677

The variations are explained under their respective heads.

CHAPTER III.

FINANCIAL RESULTS.

28. The revenue of the three Circles taken together is as follows:—

1918-19	1917-18	Average of past five years.
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Rs. 35,10,861	Rs. 35,50,509	Rs. 32,59,284
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The expenditure, including the General Direction, amounting to—

Rs. 20,75,736	Rs. 19,12,473	Rs. 18,37,985
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leaves a surplus of

Rs. 14,35,105	Rs. 16,38,036	Rs. 14,01,886
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the surplus being less by Rs. 2,02,931 than last year. Comparing the above with the average surplus of the past five years, there is an increase of Rs. 33,219.

The fall of Rs. 39,648 in revenue as compared with last year is shared by the Northern and the Berar Circles, but is partly counterbalanced by the Southern Circle. Considering the outstandings on account of revenue that remained at the close of the year, *viz.*, Rs. 2,09,861, this more than compensates both the deficit in surplus and the fall in revenue. Besides no royalty was charged on grass supplied to the Army Department, which if calculated at the rate of Re. 1 per ton would have added Rs. 62,000 to the surplus. If this together with the outstanding were added for the year, the surplus would have been Rs. 17,06,966 or over Rs. 68,930 better than in 1917-18. This must be considered satisfactory from all points of view. The increase of Rs. 1,63,283 in expenditure over last year was mainly due to departmental operations in connection with extraction of timber in South Chanda, fuel in South Raipur, propagation and collection of lac in the Damoh, the rise in the prices of stores, the improvement of the pay of the clerical establishment on Rs. 50 and downwards, and the payment of grain compensation and war allowances.

The revenue as received by different sources and its comparison with the previous year show the following results :—

	1918-19.	1917-18.	Increase or decrease.
	Rs.	Rs.	Rs.
Timber and other produce removed by Government agency.	2,78,532	1,31,313	+1,47,219
<i>Timber and other produce removed by purchasers.</i>			
Timber	8,39,077	8,69,037	-29,960
Firewood and charcoal	3,16,056	3,14,880	+1,176
Bamboos	2,04,178	2,87,784	-83,606
Grazing and fodder grass	14,61,114	15,09,030	-47,916
Other minor produce	2,30,260	2,36,591	-6,331
Miscellaneous... ..	1,81,644	2,01,874	-20,230
Total	35,10,861	35,50,509	-39,648

The progress of the past six years is detailed below :—

Year.	Revenue.	Surplus.	Percentage.
	Rs.	Rs.	
1913-14	32,69,894	12,62,011	39
1914-15	32,73,539	13,92,612	43
1915-16	32,20,755	15,25,729	47
1916-17	34,10,595	16,19,913	47
1917-18	35,50,509	16,38,036	46
1918-19	35,10,861	14,35,105	41

With the recovery of the money market from the effects of War and scarcity, the demand for forest produce is bound to rise and prices offered for coupes are already showing an upward tendency as a result of the improvement in communications now in progress.

The Conservator, Berar Circle, while mentioning that the demand for timber from the plains of Berar is persistently good, remarks that he is compelled to draw attention to the inelastic method by which major and minor produce is disposed of from the Melghat Division. All produce is sold at fixed rates to the Korkus who cut and export the material to the Berar plains for sale. In Divisions where timber coupes are sold by auction Government automatically obtains the market value for its produce. In Melghat this is not so. The rates at present in force are the same as in 1913 and even these have been reduced by 25 per cent this year. The market price of a cartload of timber in 1915-16 was on an average Rs. 15. In the year under report prices rose steadily in a constant curve from Rs. 8 per cart in November to Rs. 19 per cart in May and in exceptional cases up to Rs. 26 per cart, the average royalty obtained by Government being Rs. 5. If the present system is adhered to, a frequent revision of rates seems called for, but the method of sale by auction would seem on the face of it far preferable, if not otherwise unsuitable to the locality.

The following statement gives the percentages of revenue under major heads to gross revenue as well as of the expenditure incurred on various works of improvement and organization, and on establishment:—

	Northern.	Southern.	Berar.	Province.
Total expenditure to gross revenue ...	60	71	46	59
Expenditure A to gross revenue ...	20	26	14	20
Do. B to do. ...	40	45	32	39
Surplus to do. ...	40	29	54	41
Percentage to gross revenue of—				
(1) Major produce (timber and fuel) ...	39	54	24	39
(2) Bamboos ...	6	7	5	6
(3) Grazing and grass ...	38	21	60	40
(4) Other minor produce ...	14	12	5	10
(5) Miscellaneous ...	4	6	6	5
Percentage to gross revenue of expenditure on—				
(1) Roads and bridges ..	3	5	3	4
(2) Buildings ...	2	2	1	2
(3) Tanks, wells, etc. ...	6	1	1	3
(4) Fire protection ...	2	4	2	3
(5) Other works, cutting back operations ...	1	1	1	1
(6) Pay of establishment ...	28	31	22	27
(a) Conservators ...	2	2	1	2
(b) Superior Officers ...	6	9	6	7
(c) Subordinate establishment ...	15	14	11	13
(d) Clerical establishment ..	5	6	4	5

The outstandings on account of revenue at the beginning and close of the year were:—

Circle.	Beginning.	Close.
Northern ...	Rs. 55,164	Rs. 82,443
Southern ...	3,65,189	7,04,588
Berar ...	43,762	56,960
Total ...	4,64,115	2,09,861

The increase in the amount of outstandings of the Northern and the Berar Circles is largely counterbalanced by the Southern Circle. Consideration had to be shown to those lessees whose work was interfered with by the Army grass operations, scarcity and the influenza epidemic.

The outstandings due to the department by contractors and disbursers were:—

Circle.	Beginning.	Close.
Northern ...	Rs. 20,143	Rs. 43,910
Southern ...	27,055	80,297
Berar ...	84,749	1,28,374
Total ...	1,31,947	2,52,581

Difference against the year Rs. 1,20,364.

The increase is due to takavi actually advanced to forest villagers or in the hands of disbursers for that purpose, funds advanced for relief works, timber and lac and for military grass operations.

The estimated value of live and dead stock at the beginning and close of the year stood as follows :—

Circle.			Beginning.	Close.
			Rs.	Rs.
Northern	...	...	2,70,568	3,69,979
Southern	...	...	2,90,506	2,88,318
Berar	...	...	2,72,919	2,61,515
Total			8,33,993	9,19,812

The true financial position of the department, as disclosed from the above, is summed up as follows :—

	Rs.
Cash surplus	14,35,105
Value of timber and other produce in stock at the close of the year	1,35,000
Outstandings of revenue at the close of the year	2,09,861
	<u>17,79,972</u>

CHAPTER IV.

RESEARCH AND EXPERIMENT.

29. *Sample plots.*—Sample plots were maintained and a small amount of research work was also done, but no really valuable results in this direction are likely to be obtained so long as Divisional Forest Officers have to carry out such work. The imperative necessity for a Sylviculturist to look after and co-ordinate the whole work cannot be too strongly urged.

Sylviculture.—The results of the first seasoning experiments carried out in Allapilli, Southern Circle, have been published by the Forest Economist. Very disappointing efforts were made to dispose of the resulting scantlings in Bombay and Calcutta; it is exceedingly difficult to interest timber dealers in unknown species. As an extension of the Forest Economist's seasoning experiments observations are in progress on 10 additional timber species in Allapilli. The Forest Economist records, after testing, that teak from Markhanda Range is equal in quality to that of Allapilli.

Experiments in the regeneration of teak on the Kanara system were continued in the Melghat Division and were started in Nimar in the Chandgarh and Kalibhit Ranges and in the Umerda Reserve in Yeotmal. Owing to the abnormally dry season the results in the Melghat were generally unsatisfactory. In the Gugamal Range two acres, containing a considerable quantity of teak seedlings, were clear felled in 1916 to test the effect of thus opening up the seedling growth and the results are extremely satisfactory. The small experimental areas in the Melghat which were planted up with teak seedlings in 1917 continue to show good results, the height growth of the plants being excellent. Experiments in growing sandal failed owing to the want of rain.

Utilization.—Planks of several little used species such as gular, semal, salai and kullu logs were supplied to the Gun Carriage Factory, Jubbulpore, from the Jubbulpore-Narsinghpur Division, but owing to these planks having been felled and sawn up during the rains most of them deteriorated or were attacked by insects and had to be used for packing cases, etc.

Sandal, unseasoned logs of haldu (*Adina cordifolia*), gardenia gummifera and gardenia lucida were sent by Southern Circle for the Timber Exhibition in London.

A further 6 out of 293 *terminalia tomentosa* B.G. sleepers treated with zinc chloride and *avenarius carbolineum* and laid down in October 1913 on the Great Indian Peninsula Railway in Betul had to be removed. It is reported that practically all these sleepers are affected by a white fungus which is causing decay. Their general condition is, however, said to be better than that of other untreated sleepers alongside. The 460 sleepers treated with *solignum* and liquid fuel oil are reported to be still in extremely good condition.

In North Raipur the method of spreading brood lac was introduced on palas trees by cutting off a whole branch bearing brood lac and placing it in position on a group of branches on a tree which had been previously lopped. In the Melghat Division experiments in the distillation of rusa oil could not be carried out owing to the lack of water. A lease for working rusa oil in Nimar has recently been given to the Indian Essential Oil Company, the condition being that the company shall erect and experiment with a steam distillation plant of a type recommended by the Forest Economist.

The experiments in killing *ironi* creepers by the application of Atlas wood preservative went to show that the substance is both expensive and uncertain in its action. In Bhandara better results appear to have been obtained by pouring boiling water after splitting the stumps, while in South Raipur observations were continued to see how far the creeper could be eradicated in close grown coppice of other species.

CHAPTER V.

ADMINISTRATION.

30. Mr. M. Hill, C.I.E., Chief Conservator of Forests, held the post of Chief Conservator up to 28th February 1919, when he proceeded on leave and was relieved by the writer who held charge to the close of the year.

There were no changes in the Southern and Northern Circles, Messrs. A. V. Monro and A. St. V. Beechey having remained in charge respectively. The Berar Circle was held by Mr. S. L. Kenny from 1st July 1918 to 14th November 1918 and again from 21st December 1918 to 16th April 1919, when he proceeded on two years' combined leave. On return from leave Mr. H. H. Forteach, Conservator of Forests, was posted to the Circle and held charge from 15th November 1918 to 20th December 1918, when he proceeded on one year's combined leave due to ill-health. The Hon'ble J. W. Best, O.B.E., Forest Divisional Officer, Melghat, was placed in charge of the current duties of the Conservator in addition to his own duties from 17th April 1919 to 11th May 1919, when he was relieved by Mr. D. O. Witt, who remained in charge for the rest of the year.

There were several changes in divisional charges as well as among attached officers according to circumstances. Mr. P. S. Corbould on return from military duty was placed in charge of the Damoh Division from 9th to 13th April 1919, when he was transferred to the South Mandla Division, of which he held charge from 22nd April 1919 to the close of the year.

The Hon'ble J. W. Best, O.B.E., on return from leave in September 1918, was transferred to the Melghat Division of the Berar Circle.

Mr. D. C. McDonald, Extra-Assistant Conservator of Forests, on return from military duty was posted as an attached officer to the South Chanda Division on 21st February 1919.

Mr. H. S. George, Assistant Conservator of Forests, on return from military duty was attached to the Yeotmal Division from 9th March 1919 to the close of the year.

Messrs. H. C. B. Jollye and A. A. Dunbar-Brander, Deputy Conservators of Forests, proceeded on nine and six months' combined leave on 7th March and 22nd April 1919, respectively.

The year has again been a strenuous one for most officers, more especially those who have had to meet the extra demand made on them for the supply of fodder grass and building material for the Army and tanstuffs for the Government

tanneries. Meanwhile the ordinary routine work of the Department has had to be carried on with a depleted staff, and this has put a heavy strain on Divisional Forest Officers.

Owing to shortage of Imperial Officers, Provincial Officers on several occasions held charge of two divisions at the same time.

All Divisional Forest Officers and attached officers with rare exceptions have worked well during the year.

Mr. Peake, Extra-Assistant Conservator of Forests, retired on the 2nd August 1918.

After a long and useful career extending over 33 years Mr. Pandurang Narayan, Extra-Assistant Conservator of Forests, retired from service during the year on a superannuation pension. By his retirement the Department has lost an officer whose knowledge and experience of the Melghat and of its people rendered him specially valuable as an Assistant.

The Chief Conservator records with regret the death on 24th April 1919 of Mr. C. M. McCrie, Deputy Conservator of Forests, and lately Officiating Conservator of Forests, Eastern Circle, United Provinces, as well as of Mr. S. M. Aidroos, Extra-Assistant Conservator of Forests. Mr. McCrie's sound judgment based upon long experience was of the greatest value, while by the high standard he set himself and by his devotion to work he set an example to all.

31. *Subordinate Forest Service.*—Several Rangers and Deputy Rangers have again been commended by their respective Divisional Officers. The most deserving of those who were engaged on grass operations were presented with sanads signed by the Honourable the Chief Commissioner. Although the work of the subordinate staff has on the whole been well spoken of, there is room for improvement in the work of the forest guards. The Divisional Forest Officer, Bhandara, remarks: "The work of the protective staff is poor and no improvement can be expected unless the pay which is unquestionably low is raised to the standard paid to other Departments of similar standing. At present the guards do not care for a service which is poorly paid, hard worked, unpopular and unhealthy. Many of them take leave without permission and do as they like generally, having thereby nothing to lose, as most of them do not expect a pension, which at the best is very small."

32. *Rangers' Course.*—Out of the 4 students deputed to Dehra Dun for the 1917—19 course, two obtained the honours certificates, while the remaining passed by the higher standard.

During the year 5 students have been deputed for training in the Rangers' class of 1919—21, one of whom is a Deputy Ranger.

33. *Clerical Establishment.*—The proposals to improve the prospects of the office establishment discussed at the Conservators' Conference of 1918 were held in abeyance pending a general reorganization of the clerical establishment in all Departments throughout the Province. It is hoped that the scheme will be passed and given effect to as soon as possible, as there is great discontent among the clerical staff, more especially among the senior clerks, who have received no temporary increase though this concession has been given to those on lower pay.

The work of the clerical staff is reported to have been good on the whole.

In the death of Sarju Prasad, the Head Clerk of the Chhindwara Division, the Northern Circle lost one of the best Head Clerks.

34. *Punishments.*—The percentage of punishments to the total strength of the three Circles compares as follows:—

Circle.					Year under report.	Previous year.
Northern	...	...	...	...	9.24	15
Southern	...	...	...	...	13.10	11.19
Berar	...	...	...	...	14	13

35. *Health.*—The year was an unhealthy one, the mortality among the staff due to influenza and cholera was serious. For the Provinces as a whole 325 deaths occurred against 47 in the last year.

35. *Office Inspections.*—Most of the divisional offices were inspected by their respective Conservators during the year.

CHAPTER VI.

GENERAL.

37. Special works that were undertaken during the year were the supply of—

- (1) Hay to the Army Department.
- (2) Building material to the Public Works Department for the construction of temporary barracks for Indian troops at Betul and Chhindwara.
- (3) Timber to the Army Department for various purposes.
- (4) Quantities of tanstuffs to certain firms and Government tanneries.

Under (1), 62,024 tons of hay was supplied between the months of November and June which monopolized most of the energies of the staff in the divisions in which these operations were undertaken.

38. *Forest Villages.*—In the Seoni Division one new forest village was established, and the area of Kandlai extended during the year, while two new forest villages were settled in the Yeotmal Division. In the Balaghat Division three villages were deserted and one was reinhabited.

Consequent on the prevalence of famine, relief measures were started in affected parts and takavi advances were made liberally, the recovery of the advances of previous years being postponed in several villages. In Bilaspur and in North and South Raipur the forests were thrown open to the free collection of edible and minor products. In North Raipur the tendu crop was excellent and that of mohwa fair, which afforded considerable relief to the poorer classes. Some of the forest villages suffered severely from influenza, and it will take some time before they fully recover from the effects of this scourge. In the Hoshangabad Division the Deputy Commissioner very kindly gave 300 blankets and a grant of Rs. 600 for free distribution of wheat to deserving sufferers. Medicine was also supplied free. Mr. Edulji, a grass contractor in the Harda Tahsil, generously distributed medicines free of charge among the afflicted. The Commissioner, Nerbudda Division, and the Deputy Commissioner, Hoshangabad, recommend that a letter of commendation be given to Mr. Edulji for his good work. The Chief Conservator concurs in this proposal and recommends it for the consideration of the Local Administration. A sum of Rs. 2,000 was provided by the Deputy Commissioner, Amraoti, to assist those who suffered in the Melghat.

The Hindi primary school established in 1916 at Kaida forest village in the Hoshangabad Division suffered owing to the influenza epidemic. The attendance of boys is reported to have been on the whole satisfactory, though the number is reduced.

39. *Malguzari villages.*—In the Jubbulpore-Narsinghpur Division it is suggested, later on, to purchase small malguzari villages adjacent to Government forests and to establish them as forest villages, as at present it is difficult to obtain labour owing to the demands on the local supply by the irrigation work on the Pariat river and the operations of the Military grass farms. In the Southern Circle no malguzari villages were notified as requiring special protection, while in the Betul Division two malguzari villages were notified and three were released. One malguzari village was brought under protection in the Nimar Division for seven years from 23rd June 1919.

40. *Shooting permits.*—The total number of shooting permits issued during the year for the Province as a whole was 608 against 449 in the preceding year.

In addition 39 against 25 special permits were issued in Akola to local shikaris for the destruction of nilgai and wild pig.

No serious cases of poaching are reported.

41. *Elephants*.—During the year three elephants died. All the other elephants are reported to be in good condition excepting the one in Hoshangabad, which is unfit for further use and is being handed over to a contractor who has offered to give her a home. In the Southern Circle the run-away elephant Joytara, after being at large for over a year, was recaptured in the Lormi Range in a most creditable and plucky manner by Mr. Anthony.

42. *Balaghat Forest School*.—In October 1918 orders were received to close the school after the October examinations, as it was impossible to make satisfactory arrangements to replace the Instructor, who was proceeding on medical leave and also as the services of the two Assistant Instructors were more urgently required elsewhere.

The garden and the grounds were kept in order and some planting was done by the school gardener. A gift of shikar trophies belonging to the late Mr. McCrie was made by his executor.

The relations between the Forest and Revenue officials are reported to have been satisfactory throughout the year.

PACHMARHI :
The 1st November 1919. }

B. B. OSMASTON,
Chief Conservator of Forests,
Central Provinces.

Quinquennial Review of Forest Administration in the Central Provinces for the period from 1914-15 to 1918-19.

The following progress was made in the Administration of the Forest Department during the quinquennium ending with the year 1918-19:—

2. *Changes in area.*—The areas of all classes of forests under the control of the Department showed a decrease of 39 square miles, *viz.*:—

		Sq. miles.	
Northern Circle	...	+ 4	}
Southern Circle	...	- 12	
Berar Circle	...	- 31	
			= -39

Quinquennium 1914-15 to 1918-19.

Commencement. Area in square miles. 19,684	Close. Area in square miles. 19,645	Difference. Area in square miles. -39
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The disforestation of culturable areas of B class in North and South Chanda, the exclusion of D class areas and disforestation of small C class areas to form grazing grounds in the Berar Circle were responsible for the decrease.

The nomenclature of classes of forest in Berar proper was changed from A, B, C and D to A and C classes.

3. *Forest Settlement.*—During the quinquennium period, 61·38 square miles were brought under settlement in connection with exchanges for the systematic improvement of boundaries and of acquisition of malguzari lands for the requirements of forest villages. The area finally settled at the close of the period was 19,645 square miles.

4. *Demarcation.*—The total length of artificially marked boundaries at the close of 1918-19 was 31,421, as compared with 32,347 at the commencement of the quinquennium, this reduction having been mainly effected by exchanges having for their object the improvement of the boundary.

5. *Forest Surveys.*—Regular surveys were undertaken by the Survey Department in the Berar Circle only, where an area of 74 square miles was surveyed. The total area surveyed, allowing for disforestation, is now 5,463 square miles.

6. *Working Plans.*—The forest areas under sanctioned working plans at the commencement and close of the quinquennium were:—

Circle.	Commencement. Sq. miles.	Close. Sq. miles.
Northern Circle	4,973	4,966
Southern Circle	5,648	6,009
Berar Circle	4,010	5,570
	14,631	16,545

New working plans for the forests of Yeotmal and Akola Divisions, Berar Circle, were sanctioned and introduced. Revised working plans for the forests of Chhindwara, Balaghat (mixed forests) and Melghat Divisions were prepared, sanctioned and brought into force. In Seoni and Narsinghpur working schemes were introduced with encouraging results to replace plans which had proved unsuitable. In South Chanda a working plan has been prepared for 507 square miles of the Sironcha Range and only awaits examination by a Revenue Officer. The revision of the prescriptions of the working plan for the Wainganga Felling Series is still in hand. Orders of Government have been received on the working plans for North and South Raipur, the prescriptions of which, with some modifications, are being carried out. Many of the existing old working plans, especially in the Northern Circle, North Chanda and Betul, need revision, while a new plan for Amraoti remains to be prepared. Shortage of staff owing to the War has to a great extent prevented progress. It is, however, proposed that as soon as officers are available, the working plans which are in most urgent need of revision will be taken in hand.

7. *Communications and Buildings.*—Though retarded to a certain extent by the War, good progress was made during the past five years in constructing roads, causeways and river approaches with a view to opening up some of the less accessible forests. Considerable attention was also paid to providing the

staff with suitable quarters. It is now generally recognized that money spent on improving communications gives speedy returns and is a good investment from every point of view. The construction of tanks, wells and temporary bunds across nalas received special attention, and considerable improvements in this direction are in progress. The average expenditure on all these works amounted to Rs. 1,78,430. This represents an average annual reduction of about Rs. 33,000 as compared with the previous quinquennium, which is due to financial stringency owing to the War.

8. *Forest offences.*—These compare as follows:—

	Past.	Present.
I.—Injury by fire ...	405	268
II.—Unauthorized felling ...	4,520	5,305
III.—Unauthorized grazing ...	4,838	6,650
Other offences ...	428	635
Total ...	10,191	12,858

All offences, with the exception of those falling under the head of "injury by fire," show an increase, which is in part attributed to better check and control but probably mainly due to scarcity of fodder which tempted people to resort to illicit grazing. Under "unauthorized fellings" the increase was chiefly due to more efficient control exercised by the staff and to grant of rewards for good detection work.

The number of cases taken into court was 1,236, resulting in 857 convictions against 1,399 and 1,206, respectively, in the previous period.

9. *Fire Protection.*—The areas under systematic protection at the commencement and close of the quinquennium were 11,409 and 9,700 square miles, respectively. The decrease was due to extensions in early burning, which should however be considered as a form of fire protection. The average figure for failure is 1.64 per cent, which is about twice as favourable as that in the preceding period.

10. *Protection from cattle.*—The total number of all animals grazed during the first and last year of the period was 3,956,717 and 3,244,709, respectively, which represents a decrease of 712,008 animals.

This reduction may be attributed to—

- (1) grazing restrictions in conformity with the provisions of working plans;
- (2) heavy mortality of cattle during the last two years;
- (3) cattle-owners largely resorting to private forests where there are no restrictions.
- (4) dearness of grain and other necessities of life, coupled with scarcity of fodder in the last year, which have induced people to dispose of many of their surplus cattle.

Revised grazing rules for Berar proper were given effect to from the commencement of the quinquennium.

11. *Yield and Outturn.*—The average annual outturn of the forests is compared as follows:—

	1914-15 to 1918-19.	1909-10 to 1913-14.
Timber and fuel, cubic feet ...	34,814,000	33,939,404
Bamboos, number ...	30,438,968	31,035,490
Minor Produce, value Rs. ...	11,91,793	15,58,544

The increases have been shared by the Northern and Southern Circles, but are partly counterbalanced by the Berar Circle.

The increase under timber and fuel is mainly due to:—

- (1) more extensive cutting back operations and improvement fellings on account of an increasing demand;
- (2) demand created by the War;
- (3) opening out of some of the less accessible forest areas by improved communications and consequent increased competition at auction sales.

The decrease in the value of bamboos and of minor forest produce is chiefly due to—

- (1) difficulty in obtaining wagons for conveyance by rail, and
- (2) scarcity of labour owing to extensive grass operations.

12. *Financial Results.*—The average revenue, expenditure and surplus of the Department for the present and past quinquenniums compare as follows :—

		Present. Rs.	Past. Rs.
Revenue	... ..	33,93,251	26,47,619
Expenditure	... ..	18,70,630	17,62,599
Surplus	... ..	15,22,621	8,85,020

The average gross revenue, the expenditure and the surplus all show a general increase, the revenue having risen by 28 per cent, while the percentage of expenditure and of the surplus to gross revenue stood at :—

		Present.	Past.
Expenditure	... ..	55	66
Surplus	... ..	45	34

The above results show a decided improvement in favour of the quinquennium and with the growing facilities for export, the rise in the quantity of material removed, as well as in prices, should be steadily maintained.

FOREST EDUCATION.

13. *Provincial Service Course.*—During the quinquennium four students, one being a Ranger, underwent training at Dehra Dun and on passing out were appointed Probationary Extra-Assistant Conservators.

14. *Subordinate Forest Service.—Rangers.*—Out of the 32 students deputed for training at Dehra Dun, four passed with honours, 24 by the higher standard and four by the lower standard. Those who passed with honours were given appointments in the higher grades of Rangers. Out of 10 students deputed during the last two years 9 are still undergoing training, one having been dismissed from college for serious disobedience.

15. *Forest—Forest School.*—The following officers have held the post of the Director of the School :—

- Mr. J. Carr, from 1st July 1914 to 3rd October 1914.
- „ C. M. McCrie, from 4th October 1914 to 7th July 1915.
- „ C. F. Bell, from 8th July 1915 to 20th October 1915.
- „ J. Carr, from 16th July 1917 to 27th October 1917.
- Khan Sahib D. N. Avasia, from 28th October 1917 to 4th November 1917.
- Mr. H. E. Bartlett, from 5th November 1917 to 30th June 1919.

The Provincial School for Deputy Rangers, Foresters and Forest Guards was maintained up to 1st October 1918, when it was temporarily closed owing to shortness of staff due to the War. The services of Instructor D. N. Avasia were acknowledged by conferring on him the title of Khan Sahib in June 1915.

During the past four years of the quinquennium 118 students were trained of whom 53 passed by the higher standard, 64 by the lower standard and one failed.

RESEARCH AND EXPERIMENTS.

16. *Research.*—The value of the powellizing process as a wood preservative was tested in Nimar with negative results. The best method of seasoning some of the more important timbers was commenced in 1915 and completed in 1917 under the supervision of the Forest Economist, Dehra Dun, and the results have been published by that officer. Experiments with other species were commenced during 1918-19. Specimens of wood for tool handles, tool boxes, pattern-making and billiard cues were sent to various firms and have been well reported on.

Experiments to test the effect of the season of felling on coppice reproduction were made in Jubbulpore-Narsinghpur and the results communicated to the Forest Botanist.

In Saugor ring countings of teak were undertaken, and these results were also communicated to the Research Institute.

Specimens of local "grewia" sent to Sibpur for the construction of aeroplanes were found suitable; but owing to the supply being unequal to the requirements, this wood was obtained by the Munitions Board from Madras and elsewhere. 460 B. G. sleepers of *terminalia tomentosa* treated with solignum and 293 sleepers treated with zinc chloride and avenarius carbolineum were laid down in 1913 and 1915 by the Great Indian Peninsula Railway in Betul. They are being examined yearly and useful information as to the relative values of these substances as timber preservatives should eventually be obtained.

In 1914-15 the Forest Economist conducted trials with improved stills for the extraction of rusa oil in the Melghat. These trials have been repeated during the period under review with satisfactory results.

The tapping of salai for resin in Nimar was given an extended trial. The matter is still under investigation.

In Hoshangabad local seed lac was put on kusum and palas trees with varying success.

17. *Experiments.*—Experiments were made for the eradication of *ironi* creeper (*Zizyphus oenoplia*) in South Chanda. The process of cutting in the rains and burning in the following hot weather was very successful. Atlas preservative was also applied, but with indifferent results, and its present high price precludes its extensive use. In Bhandara the stumps of *ironi* were split and boiling water poured over them with good effect.

Some *helicteres isora* fibres were sent to the Ganges Rope Company, Calcutta, who offered Rs. 140 per ton for the material. Some unretted fibre was also sent to the same company with a view to find out how the bark behaved in the decorticating machine, but it was reported not to have responded to treatment.

In South Raipur experiments in bamboo culture have been in progress. During the last three years attention has been paid to the collection of tanstuffs and in connection with this enquiry the cultivation of tarwad (*Cassia auriculata*) has been started in several divisions.

Experiments carried out in Nagpur-Wardha for the determination of the most suitable incidence for grazing tend to show that a three acre incidence is too heavy in metamorphic areas.

In South Mandla a series of experimental plots were laid out with the object of finding out the causes which prevent the regeneration of sal and the best methods of counteracting them but without success.

Sample plots are being kept up with a view to the collection of information regarding—

- (1) the correct intensity of thinnings in babul bans ;
- (2) the best height at which anjan should be felled to produce coppice;
- (3) the best method of regenerating teak ;
- (4) the best method of destroying lantana.

18. *Administration and control.*—Mr. P. H. Clutterbuck, C.I.E., continued to officiate as Chief Conservator of Forests from the beginning of the quinquennium until the 19th October 1914, when he was relieved by Mr. M. Hill, C.I.E., on reversion from the post of Officiating. Inspector-General of Forests to the Government of India, who held the post of Chief Conservator till the 28th February 1919, when on his proceeding on leave he was relieved by the writer.

The Conservatorships of the three Circles were held by:—

NORTHERN CIRCLE.

Mr. H. H. Forteath, from 1st July 1914 to 9th July 1917.
 Mr. C. M. McCrie, from 10th July 1917 to 12th October 1917.
 Mr. H. H. Forteath, from 13th October 1917 to 28th February 1918.
 Mr. C. F. Bell, from 28th February 1918 to 13th March 1918.
 Mr. A. St. V. Beechey, from 14th March 1918 to the end of the quinquennium.

SOUTHERN CIRCLE.

Mr. A. St. V. Beechey, from 1st July 1914 to 31st March 1915.
 Mr. C. M. McCrie, from 1st April 1915 to 10th April 1915.
 Sir H. A. Farrington, Bart., from 11th April 1915 to 24th October 1915.
 Mr. C. B. Smales, from 25th October 1915 to 2nd December 1916.
 Mr. A. V. Monro, from 3rd December 1916 to 30th June 1919.

BERAR CIRCLE.

Mr. A. W. Blunt, from 1st July 1914 to 2nd April 1915.
 " B. O. Coventry, from 3rd April 1915 to 6th October 1915.
 " F. Trafford, from 7th October 1915 to 4th August 1917.
 " S. L. Kenny, from 5th August 1917 to 2nd October 1917.
 " F. Trafford, from 3rd October 1917 to 2nd April 1918.
 " S. L. Kenny, from 3rd April 1918 to 14th November 1918.
 " H. H. Forteath, from 15th November 1918 to 20th December 1918.
 " S. L. Kenny, from 21st December 1918 to 16th April 1919.
 The Hon'ble J. W. Best, O.B.E., from 17th April 1919 to 11th May 1919.
 Mr. D. O. Witt, from 12th May 1919 to 30th June 1919.

IMPERIAL SERVICE.

Mr. H. S. George, Assistant Conservator, joined the Department and Messrs. J. Donald and C. M. McCrie, Deputy Conservators, died during the quinquennium.

The services of the following officers were lent to the Army Department during the War:—

Mr. C. A. Malcolm,	|	Mr. L. Mason.
" J. Donald.	|	" C. M. Harlow.
" P. S. Corbould.	|	" R. T. Jenkin.
" C. E. C. Cox.	|	" H. C. B. Jollye.
Mr. H. S. George.		

PROVINCIAL SERVICE.

Rao Bahadur S. G. Paranjpe, Extra Deputy Conservator, retired on 18th April 1917 and died shortly after. Messrs. W. G. J. Peake and Pandurang Narayan, Extra-Assistant Conservators of Forests, retired and Messrs. Faiz Bakhsh, P. Shankarnath, C. V. Sarvate, M. I. Aidroos, Extra-Assistant Conservators of Forests, died during the quinquennium. Mr. A. Hunt was killed by a tiger. The services of Mr. McDonald, Extra-Assistant Conservator, were lent to the Army Department during the War.

ORGANIZATION.

19. *Imperial and Provincial Forest Services.*—There has been no change in these services.

20. *Subordinate Forest Service.*—The reorganization of this service received the sanction of the Government of India, and the scheme brought into force from the 1st November 1915. The number of Rangers, Deputy Rangers, Foresters and Forest Guards was substantially increased with an improvement in grades. The first grade of Rangers was raised from Rs. 150 to Rs. 200 and a 7th grade created.

21. *Clerical Service.*—The scheme for the improvement of low-paid clerks, *viz.*, on Rs. 50 and downwards was sanctioned, by the Local Government and an allowance for more deserving clerks is at present under consideration.

22. *Résumé.*—The five-year period under report embraces the whole period of the Great War. During this period the prevailing financial stringency made it necessary to curtail expenditure within the limits indicated by considerations of economy. At the same time the prices of forest produce and more especially those of timber have been steadily rising.

Unfortunately the forests of these Provinces do not provide large quantities of timber for export and have not therefore been able to benefit very largely from the rise in prices. The forest staff has moreover had to work under extraordinary difficulties owing to shortage of officers, nine Imperial Officers out of a total strength of 20 having been lent to the Army and this simultaneously with a total cessation of recruitment. Extra work, moreover, in arranging for the supply of very large quantities of grass for the Army imposed an additional strain on the reduced staff.

In spite of such unfavourable conditions it is satisfactory to be able to report that there has been progress and improvement in all branches of the forest administration. The classification of the forests has been improved and the boundaries straightened and shortened by suitable exchanges. Considerable progress was made in the preparation of maps of the Provinces and of the several divisions by the Forest Map Office, Dehra Dun. Several new working plans were completed.

Several of the less accessible forests have been opened out by improved communications, which is resulting in better prices for coupes. The progress in supplying house accommodation for the staff, though retarded on account of the War, was not lost sight of, and it is hoped to pay greater attention to this in the near future. The improvement of the water-supply in grazing grounds was given special attention and several tanks and wells were constructed. The system of coupe sales by auction is working well and results in good prices combined with more thorough working. The revenue, expenditure and surplus all show a steady rise, and with the growing demand for produce, including inferior species for which there has been no sale in the past, and the propagation and collection of lac, still further developments are anticipated. The revenue having increased from 30 to 35 lakhs is satisfactory.

The forests, though somewhat unevenly distributed, fulfil the wants of the Province as well as certain demands from outside. The fact that it has been found possible to supply a large quantity of grass for Army requirements during the last three years, in spite of the prevalence of local scarcity, proves the existence of large fodder reserves over and above local requirements.

The success of the forest administration is largely due to the co-operation of the revenue authorities and the Chief Conservator is glad to be able to record that the relations between the civil and forest officials during the period in question have been very satisfactory.

The main points upon which we should now concentrate our efforts are:—

- (1) The extension and improvement of communications.
- (2) The development of our resources in minor forest produce.

With the latter object in view it will be necessary to pay more attention to research.

A special Forest Research Officer is urgently required, who will turn his attention first to problems of utilization of forest produce. The need for a second Research Officer to study local sylvicultural problems is hardly less urgent. These requirements are not being lost sight of, and as soon as the much depleted forest staff receives reinforcements, arrangements will be made to spare suitable officers to fill these appointments.

B. B. OSMASTON,
Chief Conservator of Forests,
Central Provinces.

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1918.		Number and date of notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
RESERVED FORESTS.											
<i>A Class.</i>											
NORTH-THRN CIRCLE.	North-Mandia.	Shahpura..	Mandia ...	Masurghugri Block No. 40.	31,374	49	...	108	31,466	49	No. 51-223-C., dated the 21st October 1918.
				Remainder of A Class...	471,443	737	...	...	471,443	737	
				Total A Class ...	502,817	786	...	108	502,709	786	
				Total for Division ...	502,817	786	...	108	502,709	786	
South-Mandia.	Banjara Valley.	Do. ...	Do. ...	Ghent Block No. 34 ...	3,387	5	...	164	3,223	5	No. 39-145-A., dated the 17th July 1918.
				Remainder of A Class...	739,263	1,155	...	...	739,263	1,155	
				Total A Class ...	742,650	1,160	...	164	742,486	1,160	
				Total for Division ...	742,650	1,160	...	164	742,486	1,160	
Jubbulpore-Narsinghpur.	...	Jubbulpore-Narsinghpur.	}	Total A Class ...	377,457	590	...	...	377,457	590	
				Total for Division ...	377,457	590	...	...	377,457	590	
RESERVED FOREST UNDER THE MANAGEMENT OF THE IRRIGATION DEPARTMENT.											
<i>A Class.</i>											
Sihora ...	Jubbulpore.	Korapani Block No. 33.		1 6'01	...	...	...	106'01	...	No. 7-47-A-XV, dated the 1st March 1919.	
Murwara ...	Do. ...	Khitol " 18.		82'00	...	...	...	82'00	...		
Jubbulpore.	Do. ...	Lower gour " 46.		'56	...	...	...	'56	...		
Do. ...	Do. ...	Chitri " 44.		55'01	...	21	...	76'01	...		
Do. ...	Do. ...	Bijapati " 45.		15'50	...	27'11	...	42'61	...		
		Grand Total ...		259'08	...	48'11	...	307'19	...	No. 33-122-A, and No. 13-110-A-XV, dated the 18th May 1918, and dated the 24th April 1919.	For service road, etc., for Parait tank.
Damoh ...	Damoh ...	Damoh ...	Total A Class ...	507,086	792	...	...	507,086	792		
			Total for Division ...	507,086	792	...	...	507,086	792		
Sauger ...	Sauger ...	Sauger ...	Manak Chank Block No. 77.	5,140	8	26'28	...	5,166,28	8	No. 6-35-B-XV, dated the 11st February 1919.	
			Remainder of A Class..	473,845	741	...	...	473,845	741		
			Total A Class ...	478,985	749	26'28	...	479,011	749		
			Total for Division ...	478,985	749	26'28	...	479,011	749		

*Total area of the Division includes the following area under the management of the Irrigation Department.

For service road, etc., for Parait tank.

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1918.		Number and date of notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Excluded in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
RESERVED FORESTS.—(Contd.)												
<i>A Class.</i>												
NORTH-ERN CIRCLE.—(Contd.)	Hoshangabad.	Hoshangabad.	Bichela Block	1,855	3	...	10'88	1,844'12	3	No. 50-206-B, dated the 8th October 1918.	An area of 98'68 acres disforested by the Gazette Notification out of which 87'80 acres (56 acres disforested per Notification No. 60, dated the 25th January 1911, and 31'80 acres disforested as per Notification No. 285, dated the 30th March 1914) have already been deducted from the Reserve.	
			Remainder of A Class..	606,865	948	...	...	605,865	948		
			Total A Class ..	608,720	951	...	10'88	608,709	951			
			Total for Division ..	608,720	951	...	10'88	608,709	951			
Seoni	Gangimala.	Seoni	Khawasa Block No. 25	7,472	11	...	4'00	7,468	11	No. 40-146-A, dated the 26th July 1918.	Included due to correction of boundary line. Excluded due to correction of boundary line.	
			Chhapara... Do. ... Baroban " 10	8,732	14	2'75	...	8,734'75	14			
	Do. ... Do. ... Bijna " 11	27,544	45	...	17'35	27,526'65	45	No. 41-159-A, dated the 20th July 1918.				
	Do. ... Do. ... Gangai " 11-M.	227	...	...	3'00	22'400	...				
	Nerbudda... Do. ... Nerbudda " 5	17,032	26	...	86'91	1,695'09	26		No. 46-196-A, dated the 6th September 1918.	An area of 533'91 acres disforested by the Gazette Notification out of which 453 acres have already been deducted from the Reserve.		
				Remainder of A Class..	459,491	717	459,491	717		
				Total A Class ..	520,498	813	2'75	10'526	520,396	813		
			Total for Division ..	520,498	813	2'75	105'26	520,396	813			
Bhindwara.	Mureth	Chhindwara.	Bomlia Block No. 29	1,150	2	...	110	1,080	2	No. 8-144-6-XV, dated the 14th March 1919.		
			Sauk ... Do. ... Pulpudoh " 94-A	1,842'61	3	...	41'15	1,801'46	3			No. 12-80-C-XV, dated the 14th April 1919.
	Sillewani... Do. ... Khedbell " 106	61,020'18	95	470	472	61,018'18	95	No. 7-145-A, dated the 6th July 1918.	No. 38-145-B, dated the 6th July 1918.			
		Remainder of A Class..	361,094	564	...	...	361,094	564			
		Total A Class ..	425,147	664	470	623'15	424,994	664				
	Total for Division ..	425,147	664	470	623'15	424,994	664					
			Reserved Forests, A Class.	4,163,360	6,505	499'03	1,011'29	4,162,848	6,504		*The total of column 10 comes to 6,505 but the actual area at the end of the year remains 6,504 square miles only, after adding and deducting the charges.	
			Grand Total for Northern Circles.	4,163,360	6,505	499'03	1,011'29	4,162,848	6,504			

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forest, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		Number and date of notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
SOUTH-ERN CIRCLE.	Balaghat ...	Sonawani, Balaghat ...	Bichhwa ...	3,714	6	...	...	3,714	6		
			Gurrahghat ...	2,732	4	...	...	2,732	4		
			Sonawani ...	61,504	96	...	...	61,504	96		
			Selwa ...	4,313	7	...	...	4,313	7		
				Total ...	72,263	113	72,263	113		
	Paraswara..	Do. ...	Pandratola ...	5,328	8	...	...	5,328	8		
			Amoli ...	1,318	2	...	...	1,318	2		
			Murjbur ...	317	...	...	...	317	...		
			Paraswara ...	87,482	137	...	...	87,482	137		
			Bhadukota ...	543	1	...	...	543	1		
			Umaria ...	1,103	2	...	...	1,103	2		
			Durenda ...	766	1	...	...	766	1		
			Sonkhar ...	1,628	3	...	...	1,628	3		
				Total ...	98,485	154	98,485	154		
	Dhansua ...	Do. ...	Kera ...	964	1	...	...	964	1		
			Titwa ...	1,040	2	...	...	1,040	2		
			Dhasua ...	127,566	199	...	...	127,566	199		
			Nazul Forest ...	1,235	2	...	...	1,235	2		
				Total ...	130,805	204	130,805	204		
	Lanji ...	Do. ...	Batkhari ...	10,431	16	...	...	10,431	16		
Pimpalgaon Temni ...			613	1	...	...	613	1			
Pimpalgaon Nandora ...			5,191	8	...	...	5,191	8			
Raili Paili ...			1,651	3	...	...	1,651	3			
Junawani ...			679	1	...	...	679	1			
Dhiri Mangli ...			24,115	38	...	...	24,115	38			
			Total ...	42,680	67	...	...	42,680	67		
Baihar ...	Do. ...	Khalaundi ...	21,126	33	...	...	21,126	33			
		Sarekha ...	47,535	74	...	...	47,535	74			
		Tatighat ...	6,777	11	...	12	6,765	11	Exclusion due to correction of area.			
		Kareli ...	7,669	12	...	...	7,669	12			
		Tannawar ...	10,921	17	...	...	10,921	17			
		Jatta ...	8,241	13	...	...	8,241	13			
		Bhaisanghat ...	23,203	36	...	...	23,203	36			
		Baudrapahar ...	4,402	7	...	...	4,402	7			
		Taregaon ...	1,651	3	...	...	1,651	3			
		Sondhar ...	19,666	30	...	...	19,666	30			
			Total ...	151,191	236	...	12	151,179	236			

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil-District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
RESERVED FORESTS.—(Contd.)												
A Class.												
SOUTH-ERN. CIRCLE.—(Contd.)	Jalaghat ...	Raigarh ...	Balaghat ...	Patwatola ...	2,291	3	2,291	3		
				Raigarh East ...	34,535	54	34,535	54		
				Raigarh West ...	2,708	51	2,708	51		
				Topla ...	45,995	72	45,995	72		
				Kuili Khapa ...	14,920	23	14,920	23		
				Pandutalao ...	1,009	2	1,009	2		
				Total ...	131,458	205	131,458	205		
				Total for Division ...	626,882	979	626,870	979		
Bhandara ...	Bhawanthari ...	Bhandara ...	Chickla ...	3,271	5	...	...	3,271	5		
			Mohgaon ...	1,933	3	...	...	1,933	3		
			Phulchar ...	1,415	2	...	...	1,415	2		
			Kapurwihiri ...	870	1	...	...	870	1		
			Gurrah North ...	979	1	...	...	979	1		
			Gurrah South ...	356	...	...	...	356	...		
			Antra ...	557	1	...	...	557	1		
			Masal Khapa ...	104	...	...	...	104	...		
			Kumargaon ...	1,854	3	...	...	1,854	3		
			Bhawanthari North ...	13,516	21	...	...	13,516	21		
			Bhawanthari South ...	47,059	74	...	...	47,059	74		
			Chandpur North ...	5,192	8	...	...	5,192	8		
			Chandpur South ...	15,064	24	...	...	15,064	24		
			Ambagarh ...	466	1	...	...	466	1		
			Total ...	92,536	144	...	...	92,636	144		
Deo ...	Gaikhuri ...	Deo ...	Gongle ...	1,295	2	...	...	1,295	2		
			Sambalpur ...	17,455	27	...	...	17,455	27		
			Konda-Barra ...	27,956	44	...	...	27,956	44		
			Umerjhuri ...	28,998	45	...	...	28,998	45		
			Matara ...	8,607	14	54	54	8,607	14	No. 973-B—XVI and No. 1073-C—XV, dated the 15th March 1919.	Afforested and disforested.	
			Gawalwara ...	827	1	...	...	827	1		
			Dudhara ...	9,731	15	...	...	9,731	15		
			Girola ...	3,573	6	...	...	3,573	6		
			Waregaon ...	1,007	2	...	...	1,007	2		
			Pathri ...	565	1	...	...	565	1		
			Mokha ...	546	1	...	...	546	1		
			Phutala ...	858	1	...	...	858	1		
			Surati North ...	591	1	...	...	591	1		
			Surati Central ...	4,569	7	...	...	4,569	7		
			Total ...	106,648	167	54	54	106,648	167			

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
7	8	3	4	5	6	7	8	9	10	11	12	
RESERVED FORESTS.—(Contd.)												
A Class.												
SOUTH-ERN CIRCLE.—(Contd.)	Bhandara...	Pertabgarh.	Bhandara...	Chargaon ...	1,454	2	...	...	1,454	2		
				Surati South ...	3,395	5	...	...	3,395	5		
				Rampurli ...	3,010	5	...	...	3,010	5		
				Wagholi ...	582	1	...	...	582	1		
				Buki-Mendki ...	2,869	5	...	...	2,869	5		
				Gudri Erandi ...	316	...	...	...	316	...		
				Gangejhari ...	451	1	...	...	451	1		
				Sahangurhi ...	5,147	8	...	...	5,147	8		
				Salai ...	464	1	...	...	464	1		
				Nawegaon ...	12,229	20	...	...	12,229	20		
				Kodamendi ...	543	1	...	...	543	1		
				Gumgaon-Pipalgaon ...	22,605	35	...	...	22,605	35		
				Arjuni ...	792	1	...	...	792	1		
				Charbutti ...	7,785	12	...	...	7,785	12		
				Nilaj ...	3,769	6	...	...	3,769	6		
				Pertabgarh ...	11,988	19	...	...	11,988	19		
				Kelod ...	11,199	17	...	...	11,199	17		
Singandoh ...	3,374	5	...	...	3,374	5						
			Total ...	91,970	144	...	...	91,970	144			
Do.	Weinganga.	Do.	Do.	Khapa ...	613	1	...	...	613	1		
				Muhaka ...	1,019	2	...	...	1,019	2		
				Purkabori ...	15,403	24	...	...	15,403	24		
				Kadurli ...	622	1	...	...	622	1		
				Wakal ...	986	1	...	...	986	1		
				Thana ...	1,100	2	...	...	1,100	2		
				Gaidongri ...	3,158	5	...	...	3,158	5		
				Bedurthal ...	20,542	22	...	...	20,542	22		
				Nishti ...	658	1	...	...	658	1		
				Erwa ...	97	...	...	...	97	...		
			Total ...	44,198	69	...	...	44,198	69			
			Total "A" Class ...	335,452	524	54	54	335,452	524			
B Class.												
Do.	Pertabgarh.	Do.	Do.	Nilaj ...	2,105	3	...	...	2,105	3		
				Kelod ...	3,374	6	...	...	3,374	6		
				Total B Class ...	5,479	9	...	...	5,479	9		
			Total for Division ...	340,931	533	54	54	340,931	533			

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
RESERVED FORESTS.—(Contd.)											
<i>A Class.</i>											
SOUTH. ERN CIRCLE.—(Contd.)	Bilaspur ... East Lormi.	Bilaspur ...	Achanakmar ...	29,984	47	...	...	29,984	47		
			Lamui ...	25,637	40	...	...	25,637	40		
			Tilaidabra ...	23,921	37	...	...	23,921	37		
			Sarasdol ...	18,563	29	...	...	18,563	29		
			Ataria ...	15,718	25	...	...	15,718	25		
			Bankal ...	15,536	24	...	...	15,536	24		
			Ranjki ...	11,784	19	...	...	11,784	19		
			Kuba ...	10,075	16	...	...	10,075	16		
			Kori ...	6,443	10	...	...	6,443	10		
				Total ...		157,661	247	157,661	247
Do. ...	West Lormi.	Do. ...	Deosara ...	30,022	47	...	...	30,022	47		
			Rajak ...	23,295	36	...	...	23,295	36		
			Kerachua ...	21,573	34	...	...	21,573	34		
			Sargari ...	12,574	19	...	...	12,574	19		
			Salangi ...	33,882	53	...	...	33,882	53		
			Boerha ...	6,188	10	...	...	6,188	10		
	Total ...		127,534	199	...	...	127,534	199			
Do. ...	Pantora ...	Do. ...	Banka ...	5,155	8	...	...	5,155	8		
			Korbi ...	4,389	7	...	...	4,389	7		
			Nawagaon ...	2,816	4	...	...	2,816	4		
			Kanhai ...	2,432	4	...	...	2,432	4		
			Khondra ...	1,646	3	...	...	1,646	3		
			Kalichhapar ...	4,351	7	...	...	4,351	7		
			Bitkuli ...	1,461	2	...	...	1,461	2		
			Lawadar ...	4,395	7	...	...	4,395	7		
			Adrali ...	2,693	4	...	...	2,693	4		
			Umreli ...	2,125	3	...	...	2,125	3		
			Karranala ...	1,417	2	...	...	1,417	2		
			Mahenda ...	3,186	5	...	...	3,186	5		
			Burgahan ...	2,187	4	...	...	2,187	4		
			Katra ...	2,597	4	...	...	2,597	4		
			Deotal ...	1,465	2	...	...	1,465	2		
			Lewai ...	1,473	2	...	...	1,473	2		
			Chhata ...	4,068	7	...	...	4,068	7		
Masni ...	334	1	...	...	334	1					
Pantora ...	722	1	...	...	722	1					
Karma ...	56	...	...	...	56	...					
Gatwa ...	476	1	...	...	476	1					
Dorki ...	446	1	...	...	446	1					

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.		Excluded or transferred to other heads.		Area on 30th June 1919.		Number and date of notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.				
1	2	3	4	5	6	7	8	9	10	11	12		
RESERVED FORESTS.—(Contd.)													
A Cists.													
SOUTH-ERN CIRCLE. (Contd.)	Bilaspur	Pantora	Bilaspur	Garaindola	469	1	469	1			
				Bhainsajhar	603	1	603	1			
				Ramchaoda	2,506	4	2,506	4			
				Lohardiā	852	1	852	1			
				Khaira	1,391	2	1,391	2			
				Ranibachhali	609	1	609	1			
				Khuajathi	2,460	4	2,460	4			
				Dchkoni	763	1	763	1			
				Senkar	791	1	791	1			
				Chita Pandaria	2,136	3	2,136	3			
				Phada Khar	753	1	753	1			
							Total	63,223	99	63,223	99
			Total for Division	348,418	545	...	...	348,418	545		
North-India.	Warora	Chanda	Bir	174	...	...	...	174	...		
			Mhasala	836	1	...	...	836	1		
			Kasursara	1,494	2	...	...	1,494	2		
			Waruha, Supari, Tarogohan and Chichala.	5,120	8	...	...	5,120	8		
			Sakra	3,611	6	...	...	3,611	6		
			Segaon, Ainsa and Salori	15,287	21	...	...	15,287	21		
			Mazra, Sconi	716	1	...	...	716	1		
			Wadhona, Argarah	623	1	...	...	623	1		
			Kasarbodi, Kesalbodi, Chimur-Alijanja and Suria.	46,338	72	...	...	46,338	72		
			Lawari	1,503	3	...	...	1,503	3		
			Total	73,702	115	...	...	73,702	115		
Do.	Mohari	Do.	Taroba, Karwa-Mohari, Piparkhut and Mul.	210,630	376	544	...	241,174	377	Transferred from Haveli Range.			
			Gond Mohali	269	...	39	...	299	...	Addition due to correction of area.			
			Agri Tukm, Janala, Dahagaon and Nalesar.	2,241	4	...	...	2,241	4		
			Total	243,140	380	574	...	243,714	381				

ANNUAL FORM NO. 7—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, U
Public Forest Land, and Leased Forests, 1918-19.—(Concl'd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.		
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11		
SOUTH ERN CIRCLE. (Cont'd.)	North Chanda.	Haveli ... Chanda ...	RESERVED FORESTS.—(Concl'd.)								Notification No. 260-C-XV-53, dated the 2nd December 1918.	
			A Class.—(Concl'd.)									
			Bhandak ...	21,433	34	...	544	20,889	33			
			Erur ...	1,668	3	...	...	1,668	3	
			Sinala, Mamla and Chichpalli.	25,906	40	...	...	25,906	40	
			Junona Gilbilli Satara Part.	72,542	113	...	6	72,537	113			
			Satara Part ...	3,847	6	...	...	3,847	6	
			Total ...	125,397	196	...	550	124,847	195			
			Brahma- puri.	Do. ...	Banwahi ...	532	1	532		1
					Salebhathi ...	288	288		...
					Telimendha ...	144	144		...
					Thapad ...	659	1	659		1
					Uchali ...	147	147		...
					Masli Dorpar ...	1,311	2	1,311		2
					Tukum Adyar ...	1,071	2	1,071		2
	Ganeshpur East ...	2,933			5	...	...	2,933	5	
	Ganeshpur West ...	171			...	...	...	171	...
	Rampur ...	1,302			2	...	...	1,302	2	
	Parjagarh, Sirkara, Govindpur, Talodhi, Nawargaon and Gaidongri West portion.	52,311			82	...	...	52,311	82	
	Gaidongri East portion.	21,787			34	...	...	21,787	34	
	Kosambi West ...	1,021			2	...	...	1,021	2	
	Kosambi East ...	162			...	...	...	162	...
	Total ...	83,839			131	...	...	83,839	131	
	Gunjewahi.	Do. ...	Lohara Sindewahi, Rajoli, Takum and Gunjewahi.	54,652	85	...	...	54,652	85	
			Ballarpur, Kosambi Aikala, Bhuji, Murza, Antargaon, Wehar, Hirapur and Bothli.	51,037	80	...	...	51,037	80	
			Saoli Noth ...	3,440	5	...	...	3,440	5	
			Wehar Buzrug North ...	1,914	3	...	...	1,914	3	
			Wehar South ...	5,679	9	...	...	5,679	9	
			Total ...	116,722	182	...	...	116,722	182	
			Wairagarh.	Do. ...	Pendha ...	9,370	15	9,370		15
	Kondhala ...	6,534			10	...	...	6,534	10	
	Wairagarh and Armori.	12,071			19	...	...	12,071	19	
	Hirapur, Sukala Kasri, Nawargaon, Nawargaon and Mokasa.	6,008			9	...	...	6,008	9	
	Injewara, Chormura, Delora, Gilgaon Eastern portion.	4,938			8	...	...	4,938	8	
	Injewara, Chormura, Delora, Gilgaon Western portion.	11,619			18	...	...	11,619	18	
	Garchiroli, Bothli, Hirapur and Darsani North portion.	9,714			15	...	...	9,714	15	
	Darsani South portion.	8,709			14	...	...	8,709	14	
	Total ...	68,063			108	...	...	68,063	108	
	Total A Class ...	711,763			1,112	574	550	711,787	1,112			

ANNUAL FORM NO. 7—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Rangc.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.		
				Acres.	Equivalent in square miles.			Acres.	Acres.			Acres.	Equivalent in square miles.
1	2	3	4	5	6	7	8	9	10	11	12		
RESERVED FORESTS.—(Contd.)													
<i>B Class.</i>													
SOUTH-ERN CIRCLE.— (Contd.) Noih-Chanda.— (Contd.)	Moharli ...	Chanda ...	Moharli ...	12,757	30	12,757	20				
	Haveli	Haveli ...	28,892	45	28,892	45				
	Brahmapuri	Brahmapuri ...	11,755	19	11,755	19				
	Gunjewahi	Gunjewahi ...	21,345	33	21,345	33				
	Waitagarh	Waitagarh ...	97,282	152	97,282	152				
				Total 'B' Class	172,031	269	172,031	269			
				Total for Division	883,794	1,381	574	550	883,818	1,381			
<i>A Class.</i>													
South Chanda.	Alapilli ...	Chanda ...	Working Circle No. I ..	20,402	32	20,402	32				
			Working Circle No. II.	24,896	39	24,896	39				
			Elgur Block	3,681	6	3,681	6				
			Thodera	6,700	10	6,700	10				
			Taraguram	7,984	13	7,984	13				
			Manger	7,267	11	7,267	11				
			Forest villages	2,016	3	2,016	3				
						Total	72,946	114	72,946	114	
Sironcha ...	Chanda ...	Sironcha	40,516	63	...	...	40,516	63			
		Amedalli	24,306	38	...	...	24,306	38			
		Asaralli	43,434	68	...	...	43,434	68			
		Rameshguram	45,030	70	...	...	45,030	70			
		Regunta	43,361	68	...	...	43,361	68			
					Total	166,647	307	166,647	307		
Ghot ...	Do. ...	Rajur Block	9,454	15	...	...	9,454	15			
		Jamgiri	11,404	18	...	...	11,404	18			
		Kotri	4,925	8	...	...	4,925	8			
		Garanji	10,185	16	...	...	10,185	16			
		Karema	10,901	17	...	...	10,901	17			
		Vengnoor	8,223	13	...	...	8,223	13			
		Bolepalli	8,786	13	...	...	8,786	13			
		Ambela	10,368	16	...	...	10,368	16			
		Mulchera	13,921	22	...	...	13,921	22			
		Deoda	7,849	12	...	...	7,849	12			
		Forest villages	7,755	12	322	...	8,077	13					
					Total	1,03,771	162	322	...	1,01,093	163		
		Markhanda.	Do. ...	Pedigundam Block	7,056	11	7,056	11			
				Mukri	10,229	16	10,229	16			
Warswara	13,058			20	...	...	13,058	20			
Wasar Jharan	4,678			7	...	...	4,678	7			
Dhanur	31,484			49	...	...	31,484	49			
Lohara	14,053			22	...	...	14,053	22			
Khorgaon	8,623			14	...	...	8,623	14			
Singampalli	8,544			13	...	...	8,544	13			
Chaprara	9,484			15	...	...	9,484	15			
Markhanda	9,668			15	...	...	9,668	15			
Arpalli	13,672			22	...	...	13,672	22			
Forest villages	3,630	6	...	322	3,952	5							
			Total	154,179	210	...	322	1,33,857	209				

* Transferred from Markhanda Range

† Transferred to Ghot Range.

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
RESERVED FORESTS.—(Contd.)											
A Class.—(Contd.)											
SOUTH-ERN CIRCLE.— (Contd.) South-Chanda.— (Contd.)	Dhaba	Chanda	Karapeth block	705	1	...	...	705	1		
			Watrana	5,361	8	...	...	5,361	8		
			Dongargaon	2,194	4	...	...	2,194	4		
			Bhatali	13,414	21	...	...	13,414	21		
			Haranpalli	5,938	9	...	...	5,938	9		
			Kothari	6,855	11	...	...	6,855	11		
			Arejhari	6,471	10	...	...	6,471	10		
			Ganpur	5,432	8	...	...	5,432	8		
			Karanji	6,361	10	...	...	6,361	10		
			Tohgaon	11,089	17	...	...	11,089	17		
			Dhaba	11,633	18	...	...	11,633	18		
			Wamanpalli	11,319	18	...	...	11,319	18		
			Panchgaon	7,642	12	...	...	7,642	12		
			Palsori	4,398	7	...	...	4,398	7		
			Forest villages	1,968	3	...	...	1,968	3		
			Total	100,780	157	...	...	100,780	157		
			Total 'A' Class	608,323	950	322	322	608,323	950		
B Class.											
	Ghot	Do.	Ghot	122,379	191	...	...	122,379	191		
	Markhanda	Do.	Markhanda	39,088	61	...	...	39,088	61		
	Dhaba	Do.	Dhaba	17,452	28	...	1,317	16,135	26	242—C-XVI 55, dated the 10th December 1918.	Disforested.
	Sironcha	Do.	Sironcha	35,349	55	...	...	35,349	55		
			Total B Class	2,14,268	335	...	1,317	212,951	333		
			Total for Division	822,591	1,285	312	1,639	821,274	1,283		
A Class.											
Nagpur Wardha.	East Pench	Nagpur	Sylari Khapa	46,822	73	...	...	46,822	73		
			Dongartal	16,514	26	...	...	16,514	26		
			Katta	340	1	...	...	340	1		
			Karwahi	19,055	30	...	...	19,055	30		
			Tangla	23,313	36	...	...	23,313	36		
			Sahpur	584	1	...	...	584	1		
			Chorbaoli	17,243	27	...	...	17,243	27		
			Junawani	19,485	30	...	...	19,485	30		
			Ghuksi	743	1	...	...	743	1		
			Bir Sihora	35	...	...	...	35	...		
			Total	144,134	225	...	...	144,134	225		

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
SOUTH-THERN CIRCLE.— (Contd.) North Raipur.	Mahasamund.	Raipur ...	Sirpur part ...	34,461	54	...	...	34,461	54		
			Chirko ...	2,621	4	...	...	2,621	4		
			Magarkura ...	170	...	...	...	170	...		
			Mohkam ...	500	1	...	...	500	1		
			Kukradlh ...	557	1	...	...	557	1		
			Tumgaon ...	22,364	35	...	...	22,364	35		
			Bodra ...	631	1	...	...	631	1		
			Raital ...	16,970	26	...	...	16,970	26		
			Hathigarh ...	3,896	6	...	...	3,896	6		
			Khalari ...	436	1	...	...	436	1		
			Gaurkhera ...	401	1	...	...	401	1		
			Tamora ...	4,741	7	...	...	4,741	7		
			Ghu chapalli ...	370	...	...	...	370	...		
				Total ...	88,118	137	88,118	137		
		Sonakhan.	Do. ...	Mandia ...	1,595	2	1,595	2		
	Gatadlh ...			3,458	6	...	...	3,458	6		
	Hathibari ...			11,581	18	...	...	11,581	18		
	Jamri ...			2,489	4	...	...	2,489	4		
	Gindola ...			6,023	9	...	...	6,023	9		
	Shirmal ...			13,198	21	...	...	13,198	21		
Kara ...	1,593			2	...	...	1,593	2			
Kerichua ...	9,620			15	...	...	9,620	15			
			Pondi ...	11,208	18	...	...	11,208	18		
			Kotari ...	10,472	16	...	...	10,472	16		
			Deopur ...	5,646	9	...	...	5,646	9		
			Total ...	76,683	120	...	...	76,683	120		
			Total for Division ...	329,842	515	...	...	329,842	515		
South Raipur.	Balod ...	Drug ...	Chhindiwehri ...	262	...	...	...	262	...		
			Matra Khujji and Jannara.	1,726	3	...	...	1,726	3		
			Sanjari ...	997	2	...	...	997	2		
			Marwapastra and Bendrachua.	992	2	...	...	992	2		
			Sanjari Banjari ...	526	1	...	...	526	1		
			Rengadabri and Kaurutola.	5,179	8	...	...	5,179	8		
			Bhimatola ...	157	...	...	...	157	...		
			Dalli-Banjari ...	558	1	...	...	558	1		
			Kodari ...	638	1	...	...	638	1		

* Exclusion due to correction of area.

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
RESERVED FORESTS.—(Contd.)												
<i>A Class.—(Concl'd.)</i>												
SOUTHERN CIRCLE. (Contd.) South Raipur.— (Contd.)	Balod.	Drug.	Tekapar and Paddatola.	1,845	3	...	...	1,845	3		
			Palandur	479	1	...	...	479	1		
			Matewa	1,307	2	...	...	1,307	2		
			Bagdoh	885	1	...	...	885	1		
			Kamkapar	4,966	8	...	...	4,966	8		
			Dchiyan	5,554	8	...	...	5,554	8		
			Sungrasara	5,059	8	...	...	5,059	8		
			Mula and Amapara	7,265	11	...	...	7,265	11		
			Phagunda	748	1	...	...	748	1		
			Gongle	496	...	...	...	496	...		
			Kurbikuti	5,032	8	...	...	5,032	8		
			Baloda and Nagjhar	4,182	7	...	...	4,182	7		
			Gurpal and Narra	4,704	7	...	...	4,704	7		
			Munigora	4,331	7	...	...	4,331	7		
			Nahuda	5,053	8	...	...	5,053	8		
			Orgaon and Patell	6,350	10	...	...	6,350	10		
			Parkal and Jabkohra	8,095	13	...	...	8,095	13		
			Putarwahi	5,144	8	...	...	5,144	8		
			Urjhey and Chihro	4,969	8	...	...	4,969	8		
			Magardah Jabkasa	9,056	14	...	...	9,056	14		
Rajoli	2,486	4	...	...	2,486	4					
Barbhum	789	1	...	...	789	1					
			Total	99,830	156	...	3	99,827	156			
Dhamtari...	Do.	Do.	Barbhum	1,909	3	...	...	1,909	3		
			Ruputola	1,504	2	...	...	1,504	2		
			Markatola	2,972	5	...	...	2,972	5		
			Dhanapuri	2,068	5	...	...	2,068	5		
			Muskera	156	...	...	...	156	...		
			Karrajhar	1,225	2	...	...	1,225	2		
			Khirdigi	4,805	8	...	...	4,805	8		
			Sohtara	1,421	2	...	...	1,421	2		
			Naikura	2,414	4	...	...	2,414	4		
			Onakona	618	1	...	...	618	1		
			Marwopathra	2,987	5	...	...	2,987	5		
			Raipur ...	Bisrampur	1,948	3	1,948	3		
				Beltara and Dangimacha.	1,513	2	1,513	2		
				Pathritola	3,130	5	3,130	5		
				Tumrabahar	377	1	377	1		
				Kherta	934	1	934	1		
				Satiara	361	1	361	1		
	Koregaon	2,671	4	...	...	2,671	4				
	Pendripani	1,808	3	...	...	1,808	3				

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19—(Contd.)

Division.	Range.	Civil District of Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.		
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square mile.				
1	2	3	4	5	6	7	8	9	10	11	12		
SOUTH THERN CIRCLE.— (Contd.)	South Raipur.— (Contd.)	Dhamtari... Raipur ...	RESERVED FORESTS.—(Contd.)										
			A Class.—(Contd.)										
			Kokri ..	286	...	...	...	286	...		
			Korluma and Mogri ..	2,097	3	...	...	2,097	3		
			Birbandha and Urpati..	2,869	4	...	...	2,869	4		
			Lakhanpur ...	1,618	3	...	...	1,618	3		
			Bhotha ...	3,144	5	...	...	3,144	5		
			Naramsilli ...	2,579	4	...	...	2,579	4		
			Kandri ...	1,981	3	...	...	1,981	3		
			Barari and Basanth ...	2,443	4	...	...	2,443	4		
			Lasanwahi ...	2,285	3	...	...	2,285	3		
			Makardona ...	2,032	3	...	...	2,032	3		
			Mohlai ...	452	1	...	...	452	1		
			Banaraul ...	2,458	4	...	...	2,458	4		
			Mardapoti ...	2,789	4	...	...	2,789	4		
			Banbagaud ...	268	1	...	...	268	1		
			Kumha ...	1,065	2	...	...	1,065	2		
			Khandadah and Kurmajhar.	3,660	6	...	...	3,660	6		
			Ketegaon ...	2,276	4	...	...	2,276	4		
			Karrajhar ...	2,861	4	...	...	2,861	4		
			Bokrawandi ...	3,071	5	...	...	3,071	5		
			Ghotiaparni ...	1,121	2	...	...	1,121	2		
			Dokal ...	2,268	3	...	...	2,268	3		
			Totakassa ...	2,518	4	...	...	2,518	4		
			Kurra ...	2,377	4	...	...	2,377	4		
			Barbandha ...	5,698	9	...	...	5,698	9		
			Sirand and Pipalcheri...	2,440	4	...	...	2,440	4		
			Bhaluchua ...	2,456	4	...	...	2,456	4		
			Dhanbura ...	2,287	4	...	...	2,287	4		
			Basikhai and Kotarwahi.	3,491	5	...	...	3,491	5		
			Pandha ...	391	1	...	...	391	1		
			Parwaripart, ...	107	...	...	...	107	...		
			Total ..	101,869	160	...	...	101,869	160		
		Singhpur ... Do. ...	Pardhi ...	2,124	3	...	...	2,124	3		
			Chilkini and Birjhuli .	2,555	4	...	...	2,555	4		
			Kewradih ...	2,959	5	...	...	2,959	5		
			Kusumkunta ...	3,418	6	...	...	3,418	6		
			Bakari and Budhara o..	6,921	10	...	...	6,921	10		
			Rajadera ...	5,278	8	...	...	5,278	8		
			Kukda ...	755	1	...	...	755	1		
			Deona ...	267	1	...	...	267	1		
			Tourenga ...	1,160	2	...	...	1,160	2		
			Murmura ...	1,721	3	...	...	1,721	3		
			Phuljhar ...	2,514	4	...	...	2,514	4		
			Hathband and Chorbnati.	15,894	25	...	...	15,894	25		
			Pathar ...	4,738	8	...	...	4,738	8		
			Goprapathar and Giorola.	13,631	21	...	...	13,631	21		
			Tarri and Dhoi ...	11,040	17	...	...	11,040	17		
			Patwari ...	18,485	29	...	...	18,485	29		
			Kesodah and Awakhara.	16,010	25	...	...	16,010	25		
			Umradah and Alsa ..	8,209	12	...	...	8,209	12		
			Total ..	117,679	184	...	...	117,679	184		

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.		
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.				
1	2	3	4	5	6	7	8	9	10	11	12		
SOUTHERN CIRCLE.— (Contd.) South Raipur.— (Contd.)	North Sihawa.	Raipur ...	RESERVED FORESTS.—(Contd.)										
			A Class.—(Contd.)										
			Kesoda and Amabera...	5,430	9	...	...	5,430	9		
			Alsa and Umradahra ...	5,254	8	...	...	5,254	8		
			Marduli and Jawara ...	10,950	17	...	...	10,950	17		
			Palgaon and Gandlanata.	18,123	28	...	...	18,123	28		
			Murduli and Chargaon.	11,414	18	...	...	11,414	18		
			Singhola and Tumbahar.	15,439	24	...	...	15,439	24		
			Sajapani and Amjhar...	14,050	22	...	...	14,050	22		
			Banpuri ...	11,354	18	...	...	11,354	18		
			Cheliguttari ...	8,422	13	...	...	8,422	13		
			Koliari and Mohmela...	7,780	12	...	...	7,780	12		
			Actoli, Daldali and Charbhata.	8,615	13	...	...	8,615	13		
	Ghotgaon and Kungera.	31,263	49	...	...	31,263	49				
	Nirabera ...	6,376	10	...	...	6,376	10				
	Total ...	154,470	241	...	...	154,470	241				
	South Sihawa.	Do. ...	Hiridih ...	2,445	3	...	...	2,445	3		
			Sonpur ...	256	...	...	...	256	...		
			Musarputa ...	757	1	...	...	757	1		
			Singanpur and Ghotbera.	16,436	26	...	...	16,436	26		
			Bodra ...	9,648	15	...	...	9,648	15		
			Borai ...	11,633	18	...	...	11,633	18		
			Bansbardi and Ratawa.	11,333	16	...	...	11,333	16		
			Lilanj ...	10,858	17	...	...	10,858	17		
			Ghorigaon and Pandripani.	9,445	15	...	...	9,445	15		
			Mechka and Risgaon...	13,468	21	...	...	13,468	21		
Khalari ...			13,204	21	...	...	13,204	21			
Khalgarh ...			30,439	48	...	...	30,439	48			
Pharagaon and Bhira-gaon.			25,921	41	...	...	25,921	41			
Amjhar ...	6,667	11	...	...	6,667	11					
Total ...	161,504	252	...	...	161,504	252					
Total for Division ...	635,352	923	...	...	635,349	923					
Total for Southern Circle—													
A Class ...	4,053,961	6,333	1,204	1,205	4,053,970	6,333							
B Class ...	391,778	613	...	1,317	390,461	611							
GRAND TOTAL FOR SOUTHERN CIRCLE.	4,445,739	6,946	1,204	2,612	4,444,431	6,944							
Balaghat ...	Senawani...	Balaghat...	RESERVED FORESTS UNDER THE IRRIGATION DEPARTMENT.										
			A Class.										
	Sonawani ...	754	1	...	...	754	1				
	Selwa ...	51	...	...	...	51	...				
	Total ...	805	1	...	...	805	1				
	Baihar ...	Do. ...	Sarekha ...	58	...	...	...	58	...		
			Bhaisanghat ...	73	...	...	...	73	...		
			Baurapahar ...	22	...	...	...	22	...		
			Taregaon ...	49	...	...	...	49	...		
	Total ...	202	...	...	...	202	...				
Dhansua ...	Do. ...	Kera ...	8	...	...	...	8	...			
		Total ...	8	...	...	...	8	...			
Total for Division ...	1,015	1	...	...	1,015	1					

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
RESERVED FORESTS UNDER THE IRRIGATION DEPARTMENT.—(Contd.)											
<i>A Class.—(Contd.)</i>											
SOUTHERN CIRCLE.—(Contd.)	Bhandara ...	Bawanthari.	Bhandara...	Chandpur North ...	501	1	501	1	For construction of the main channel of the Ambachua tank. No. 4392-F-XIV, dated the 27th January 1919. Retransferred from Ghorajhari tank area.
				Chandpur South ...	136	136	...	
				Total ...	637	1	637	1	
	Caikhuri ...	Do.	Do.	Konda Barra ...	1,287	2	1,287	2	
				Umerjhari ...	609	1	609	1	
				Total ...	1,896	3	1,896	3	
	Total for Division ...				2,533	4	2,533	4	
	Bilaspur ...	East Lormi.	Bilaspur ...	Sarasdol ...	169	...	1	...	170	...	
				Total for Division ...	169	...	1	...	170	...	
	North Chanda.	Moharli ...	Chanda ...	Moharli ...	2,143	3	2,143	3	
Haveli ...				67	...	...	...	67	...
Brahmapuri ...				4,802	8	...	89	4,713	8		
Gunjewahi ...				3,163	5	...	...	3,163	5
Total A Class ...				10,175	16	...	89	10,086	16		
North Chanda.	Moharli ...	Do.	Moharli ...	25	...	...	...	25	...
			Brahmapuri ...	6	...	...	...	6	...
			Total B Class ...	31	...	...	...	31	...
Total for Division ...				10,206	16	...	89	10,117	16		
South Chanda.	Dhaba ...	Do.	Dhaba ...	13	...	...	...	13	...
			Total for Division ...	13	...	...	...	13	...
South Raipur.	Balod ...	Drug ...	Balod ...	586	1	...	...	586	1
			Total for Division ...	586	1	...	...	586	1
			Total under Irrigation Department—								
A Class ...				14,478	22	1	89	14,290	22		
B Class ...				44	...	...	...	44	...
GRAND TOTAL ...				14,522	22	1	89	14,434	22		
RESERVED FORESTS UNDER THE PUBLIC WORKS DEPARTMENT.											
<i>A Class.</i>											
Bhandara ...	Bawanthari.	Bhandara..	Ambagarh ...	1	...	...	...	1	...
			Chandpur South ...	27	...	...	...	27	...
			Gurrah North ...	4	...	...	...	4	...
			Gurrah South ...	1	...	...	...	1	...
			Total ...	33	...	...	...	33	...
	Pertabgarh.	Do.	Do.	Chargaon ...	8	8	...	
				Singandoh ...	23	23	...	
				Pertabgarh ...	4	4	...	
	Wain-ganga.	Do.	Do.	Khapa ...	19	19	...	
				Nishti ...	21	21	...	
Total for Division ...				108	...	...	...	108	...
North Chanda.	Moharli ...	Chanda ...	Moharli ...	15	...	...	...	15	...
			Haveli ...	277	...	...	...	277	...
			Wairagarh ...	6	...	...	...	6	...
Total for Division ...				298	...	...	...	298	...
South Chanda.	Alapilli ...	Do.	Alapilli ...	7	...	...	...	7	...
			Markhanda ...	86	...	...	...	86	...
			Sironcha ...	58	...	...	...	58	...
Total ...				151	...	...	...	151	...

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
RESERVED FORESTS UNDER THE PUBLIC WORKS DEPARTMENT.—(Contd.)												
SOUTH-THERN CIRCLE.—(Contd.)												
South Chanda.	Markhanda	Chanda	Markhanda	73	...	...	...	73	...		
	Sironcha	Do.	Sironcha	114	...	...	...	114	...		
	Total			187	...	...	...	187	...		
	Total for Division			338	...	...	...	338	...		
Nagpur Wardha.	East Perch.	Nagpur	East Perch	121	...	...	...	121	...		
	Umrer	Do.	Umrer	5	...	...	...	5	...		
	Hingni	Nagpur and Wardha.	Hingni	6	...	...	...	6	...		
	Total for Division			132	...	...	...	132	...		
Total under Public Works Department.—												
				A Class	689	...	...	689	...		
				B Class	187	...	...	187	...		
GRAND TOTAL				876	1	...	...	876	1		
RESERVED FORESTS.												
Class A.—Timber and Fuel Reserves.												
BERAR CIRCLE.	Melghat	Sembadoh.	Amraoti	Bairagarh	77,696	121	...	...	77,696	121	
		Chaorakund.	Do.	Do.	63,877	100	...	...	63,877	100	
		Btrum	Do.	Do.	81,992	128	...	...	81,992	128	
		Khandu	Do.	Do.	89,921	141	...	...	89,921	141	
	Total Bairagarh				313,486	490	313,486	490		
					Gugamal	151,961	237	151,961	237	
					Do.	8,535	13	8,535	13	
					Do.	11,005	17	11,005	17	
					Chaorakund.	26,863	42	26,863	42	
					Do.	7,704	12	7,704	12	
					Do.	2,906	5	2,906	5	
					Dhulghat	79,733	125	79,733	125	
					Do.	12,983	20	12,983	20	
					Do.	20,232	32	20,232	32	
					Do.	27,628	43	27,628	43	
					Khirpani	32,221	50	32,221	50	
					Chikalda	22,767	36	22,767	36	
					Motha	18,586	29	18,586	29	
					Kohana	11,475	18	11,475	18	
	Total other Reserves				434,598	679	434,598	679		
Total Melghat Division.				748,084	1,169	...	...	748,084	1,169		
Amraoti	Amraoti	Amraoti	Chiridi Amraoti Taluq.	2,099	3	...	(d) 1	2,098	3			
			Chandar	7,734	12	(d) 1	...	7,735	12			
			Babul Baos Amraoti Taluq.	1,913	3	...	...	1,913	3		
			Babul Bans Chandur Taluq.	1,700	3	...	(d) 1	1,699	3			

ANNUAL FORM NO. 7—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
RESERVED FORESTS.—(Contd.)											
Class A.—Timber and Fuel Reserves.—(Contd.)											
BERAR CIRCLE.—(Contd.)	Amraoti	Amraoti	Amraoti	Wadali Pohora Reserve including—							
			Anjangaon Bari	1,003							
			Bhankhed Bk.	736							
			" Kd.	1,201							
			Deogiri	393							
			Ghatkheda	266							
			Indla	222							
			Jewad	96	13			8,550	13		
			Madlabad	997							
			Malegaon	297							
			Pohora	832							
			Wadali	1,903							
			Warad	604							
			Anjangaon Bari	58				58			
			Dhanora	222				222			
			Kekatpur	161	1			161	1		
			Sawardi	105				105			
			Arjunpur	33		(a) 1		34			
			Jamthi	365				365			
			Jaware	105				105			
			Kolwan	233	2			233	2		
			Mardi	123				123			
			Salod	422				422			
			Tiwsa	160				160			
			Total Amraoti Range	23,983	37	2	2	23,983	37		
	Marsi	Do.	Mehedari	9,591	15			9,591	15		
			Shekdari	6,613	10			6,613	10		
			Lakhara	3,307	5			3,307	5		
			Babolbans. Taluq.	3,706	6	(a) 1		3,707	6		
			Argaon	13				13			
			Dabheri	197				197			
			Ismailpur (Ritpur)	118	2	(a) 1		118	2		
			Pusla (Marsi)	337				338			
			Shahadapur	125				125			
			Wagholi	68				68			
			Total Marsi Range	24,075	38	2		24,077	38		
	Ellichpur	Do.	Babolbans, Daryapur Taluq.	506	1			506	1		
			Babolbans, Ellichpur Taluq.	916	1			916	1		
			Hattighat	3,592	6			3,592	6		
			Boraj	18				18			
			Takurkhed	32			(a) 1	31			
			Wadure	45				45			
			Yeora	29				29			
			Total Ellichpur Range	5,138	8		1	5,137	8		
			Total Amraoti Division	53,196	83		3	52,197	83		

(a) Differences rounding off.

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District of Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
BERAR CIRCLE.—(Contd.)											
RESERVED FORESTS.—(Contd.)											
<i>Class A.—Timber and Fuel Reserve.—(Concl'd.)</i>											
Buldana	Chikhli	Buldana	Gerumatergaon (South)	10,571	89	...	...	57,011	89	No. 307-A-XV-1, No. 307-B-XV-2, dated the 6th January 1919.	A. g.— Afforested 44—12 Disforested 26—28
			Amdari (")	5,254	9	...	...	5,259	9		
			Gumi	6,535	10	44	26	6,553	10		
			Mechna	56				56			
			Anchalwadi	136				136			
			Borgaon	60				60			
			Buldana	390	1	...	...	390	1		
			Godri	70				79			
			Dadgaon	62				62			
			Total Chikhli Range	69,583	109	44	26	69,601	109		
	Mehkar	Do.	Ghatbori	29,019	45	...	...	29,019	45		
			Borkhed Wawra	153				153			
			Gandhari	247				247			
			Jaulkhed	211	2	...	...	211	2		
			Umradi	441				441			
			Total Mehekar Range	30,071	47	...	...	30,071	47		
	Purna	Do.	Amdari (North)	15,989	25	...	...	15,989	25		
			Dadgaon F. S.	225	1	...	...	225	1		
			Gerumatergaon (North)	2,511	4	...	...	2,511	4		
			Ehorgaon	2,014	3	...	...	2,014	3		
			Dadgaon Babulbans	199	...	...	...	199	...		
			Hiwarkhed*	3,025				3,035			* Includes Lohkande and Ojhar.
			Dhotora	238				238			
			Januna	181	6	...	...	181	6		
			Hingna Karegaon	335				335			
			Wadner Bholji	57				57			
			Total Purna Range	24,784	39	6	...	24,784	39		
	Jalgaon	Do.	Ambabarwa	34,492	54	34,492	54		
			Various Babulbans	1,597	2	...	...	1,597	2		
			Total Jalgaon Range	36,089	56	...	...	36,089	56		
			Total Buldana Division	160,527	251	44	26	160,545	251		
Yeotmal	Yeotmal	Yeotmal	Gondwakdi	20,408	32	...	9	20,399	32	No. 451, dated the 13th May 1913. No. 452, dated the 13th May 1913. (These Notifications were not taken into account during the year 1913-14).	Deducted by correction A. 8 g. 13. Added by correction A. 8 g. 1.
			Kharad	24,757	39	...	...	24,757	39		
			Umarda	1,990	3	...	...	1,990	3		
			Chausala	3,192	5	...	...	3,192	5		
			Jamb	1,149	2	...	...	1,149	2		
			Sonkhas	4,112	6	...	...	4,112	6		
			Darge	3,244	5	...	...	3,244	5		
			Moha	1,406	2	...	...	1,406	2		
			Lonadi	500				500			
			Shabaspur	72	1	...	...	72	1		
			Total Yeotmal Range	60,830	95	...	9	60,821	95		
	Darwha	Do.	Pathroat	3,741	6	...	...	3,741	6		
			Anjankhed	10,166	16	...	...	10,166	16		
			Lonbehel	15,522	24	...	...	15,522	24		
			Dabhdhi	9,041	14	...	...	9,041	14		
			Khopdi	344	1	...	...	344	1		
			Satara	1,517	2	...	...	1,517	2		
			Bori Gosawi	977	2	...	...	977	2		
			Total Darwha Range	41,308	65	...	...	41,308	65		

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
RESERVED FORESTS.—(Contd.)												
Class A.												
BERAR CIRCLE— (Contd.)	Yeotmal ...	Ghatanji ...	Yeotmal ...	Nidha ...	11,901	19	...	...	11,901	19		
				Kapsi ...	3,137	5	...	...	3,137	5		
				Datodi ...	3,320	5	...	...	3,320	5		
				Alte ...	2,231	3	...	...	2,231	3		
				Pat Pangre ...	5,591	9	...	...	5,591	9		
				Khupre ...	1,276	2	...	...	1,276	2		
				Loni ...	11,440	18	...	...	11,440	18		
				Lawhan ...	790	1	...	...	790	1		
				Chorambe ...	1,758	3	...	...	1,758	3		
				Dewdari ...	2,724	4	...	...	2,724	4		
				Undarni ...	4,499	7	...	...	4,499	7		
			Total Ghatanji Range...	48,667	76	...	...	48,667	76			
BERAR CIRCLE— (Contd.)	Kelapur ...	" ...	" ...	Kelapur ...	52,908	83	(b) 1	...	52,909	83		(b) Differences in rounding off.
				Ghordara ...	3,941	6	...	...	3,941	6		
				Pardi ...	1,731	3	...	(b) 1	1,730	3		
				Tiwala ...	4,873	7	...	...	4,873	7		
				Pandharwani ...	836	1	...	...	836	1		
				Ambejhari ...	2,780	4	...	...	2,780	4		
				Hiwra ...	516	1	...	...	516	1		
				Rampur ...	487	1	...	...	487	1		
				Bhorad Pokharni ...	4,565	7	...	...	4,565	7		
							Total Kelapur Range ...	72,637	113	1	1		72,637	113
BERAR CIRCLE— (Contd.)	Wun ...	" ...	" ...	Phiski ...	2,342	4	...	...	2,342	4		
				Bhiwkund ...	6,424	10	...	...	6,424	10		
				Pownar ...	3,934	6	...	...	3,934	6		
				Pardi ...	3,197	5	...	...	3,197	5		
				Girjapur ...	5,931	9	...	...	5,931	9		
				Borgaon ...	1,441	2	...	...	1,441	2		
				Suknegaon ...	3,273	5	...	...	3,273	5		
				Karman ...	2,635	4	...	...	2,635	4		
				Ruikot ...	2,957	5	...	...	2,957	5		
				Shekapur ...	2,393	4	...	...	2,393	4		
				Chalbardi ...	518	1	...	...	518	1		
				Mudhati ...	3,499	5	...	...	3,499	5		
				Dongargaon ...	5,707	9	...	...	5,707	9		
			Total Wun Range ...	44,251	69	...	...	44,251	69			

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
RESERVED FORESTS.—(Contd.)												
Class A.												
BERAR CIRCLE.— (Contd.)	Yeotmal ... Pusad ...	Yeotmal ...	Rui	7,718	12	...	...	7,718	12		
			Marwari	12,956	20	...	...	12,956	20		
			Dhansal	7,469	12	...	...	7,469	12		
			Urdu	4,434	7	...	...	4,434	7		
			Gahuli Palodi	19,661	31	...	...	19,661	31		
			Injni	1,011	2	...	...	1,011	2		
			Kali	2,200	3	...	...	2,200	3		
			Kaudgaon	704	1	...	...	704	1		
			Hiwri	79	1	...	...	79	1		
			Malegaon	280	1	...	...	280	1		
			Malkinhi	221	1	...	...	221	1		
			Manjar Jowla	541	1	...	...	541	1		
			Brahmi	5,362	8	...	...	5,362	8		
	Total Pusad Range			62,656	98	...	...	62,656	98		
	Umarkhed.	Yeotmal ...	Yeotmal ...	Ganganmal	19,209	30	19,209	30		
				Dindala	1,826	3	1,826	3		
				Baldi Pardi	2,432	4	...	61	2,371	4	No. 74/68-B-A, dated 24th September 1917 (part).	No. 61 acres were wrongly deducted from Krishnapur instead of from Baldi Pardi last year.
				Krishnapur	8,869	14	61	...	8,930	14		
				Ansingh	6,527	10	6,527	10		
				Amdari	1,981	3	1,981	3		
				Mudane	6,236	10	6,236	10		
				Phetare	121	1	121	1		
				Kadoli	139	1	139	1		
Ghanmukh				306	1	...	...	306	1		
Warad	1,203	2	...	...	1,203	2					
Total Umarkhed Range			49,049	77	61	61	49,049	77				
Kinwat ...	Do. ...	Kinwat ...	Kinwat	117,890	184	...	...	117,890	184		
			Total Kinwat Range	117,890	184	...	...	117,890	184		
Total Yeotmal Division			497,268	777	62	71	497,259	777				

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
RESERVED FORESTS.—(Contd.)												
Class A.												
BERAR CIRCLE.— (Contd.)	Akola	Akola	Palodi	9,068	14	...	67	9,001	14	No. 358, dated 22nd June 1916.	67 acres 12 gunthas of Mandere transferred to Khapardari as the remaining area of this village has been added to that Reserve, vide Notification No. 7/220-B, dated the 4th January 1918.	
			Rui	8,430	13	...	...	8,430	13	
			Khapardari	4,225	7	67	...	4,292	7			
			Babulbans, Mangrul Taluq.	1,052	2	...	...	1,052	2	
			Basim Taluq.	345	1	...	...	345	1	
			Pangra	11,226	18	...	...	11,226	18	
			Basim	7,041	11	...	...	7,041	11	
			Medsi, Basim Taluq	8,515	13	...	...	8,515	13	
			Balapur	7,786	12	...	...	7,786	12	
			Fodder Reserves, Basim Taluq.	672	1	...	...	672	1	
	Do., Mangrul Taluq.	1,901	3	...	...	1,901	3			
	Total Pangra Range				60,261	95	67	...	60,261	95	Do.	
	Morna	Do.	Do.	Loni, Balapur Taluq	598	1	598	1	No. 280-A/XV-56, dated the 12th December 1918.	*Was wrongly included in the Morna Reserve, Akola Taluq, during previous years.
				Loni, Akola	490	1	490	1		
				Morna	18,980	30	18,980	30		
				Morna, Basim	1,370	2	1,370	2		
				Narnala	4,788	7	4,788	7		
				Babulbans, Akola Taluq.	684	1	684	1		
				Babulbans, Akola Taluq.	895	1	895	1		
	Total Morna Range				33,065	51	...	16	33,049	51	A. 8. Disforested 16 16	
Balapur	Do.	Do.	Chikhalwal	21,868	34	21,868	34			
			Patur	13,536	21	...	...	13,536	21	
			Andur	120	...	...	...	120	...
			Kasarkheir	100	...	...	...	100	...
			Jogtala	220	1	...	...	220	1	
Total Balapur Range				35,844	56	...	...	35,844	56	

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
BERAR CIRCLE.—(Contd.)											
RESERVED FORESTS.—(Contd.)											
<i>Class A.</i>											
Akola	Murtizapur.	Akola	Karanja	542	1	...	...	542	1		
			Bahubans, Murtizapur Taluq.	2,838	4	...	...	2,838	4		
			Fodder Reserves	5,360	8	...	...	5,360	8		
			Total Murtizapur Range.	8,740	13	...	...	8,740	13		
			Total Akola Division	137,970	215	67	83	137,894	215		
			Total A Class Berar proper.	1,596,985	2,495	177	183	1,596,879	2,495		
<i>Class C.—Pasture Reserves.</i>											
Melghat	Chikalda	Amraoti	Dhamangaon	2,036	3	...	...	2,036	3		
	Khirpani	Do.	Chiuchona and Nimkhed.	2,311	4	...	...	2,311	4		
			Total Melghat Division.	4,347	7	...	...	4,347	7		
Amraoti	Amraoti	Do.	Amraoti Taluq	16,086	25	...	...	16,086	25		
	Do.	Do.	Chandur	28,615	45	...	...	28,615	45		
	Morsi	Do.	Morsi	39,053	47	...	...	39,053	47		
	Ellichpur	Do.	Ellichpur	14,468	22	...	...	14,468	22		
			Total Amraoti Division.	89,222	139	...	...	89,222	139		
Buldana	Chikhli	Buldana	Chikhli Taluq	27,624	43	...	...	27,624	43		
	Mehekar	Do.	Mehekar	35,741	56	...	...	35,741	56		
	Parna	Do.	Malkapur	11,731	19	...	...	11,731	19		
	Do.	Do.	Khamgaon	27,048	42	...	...	27,048	42		
	Jalgaon	Do.	Jalgaon	12,366	19	...	...	12,366	19		
			Total Buldana Division.	114,510	179	...	...	114,510	179		
Yeotmal	Yeotmal	Yeotmal	Yeotmal Taluq	39,201	61	...	...	39,201	61		
	Do.	Do.	Darwha	9,720	16	...	...	9,720	16		
	Darwha	Do.	Do.	76,355	119	(c) 2	...	76,355	119		
	Ghatanji	Do.	Yeotmal	762	1	...	...	762	1		
	Do.	Do.	Kelapur	11,694	19	...	...	11,694	19		
	Kelapur	Do.	Do.	16,361	25	...	...	16,361	25		
	Do.	Do.	Wun	990	2	...	...	990	2		
	Wun	Do.	Do.	54,462	85	(c) 2	2	54,462	85	No. 18/163-A.XV, dated the 14th June 1919.	Disforested A. E. 28
	Pusad	Do.	Darwha	10,272	16	...	...	10,272	16		
	Do.	Do.	Pusad	11,605	18	...	...	11,605	18		
	Umarkhed.	Do.	Do.	20,461	32	...	...	20,461	32		
	Kinwat	Do.	Do.	861	1	...	...	861	1		
			Total Yeotmal Division.	252,742	395	4	2	252,742	395		

(*) Differences due to rounding off.

No. 18/163-A.XV, dated the 14th June 1919.

Disforested A. E. 28

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.						
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.								
1	2	3	4	5	6	7	8	9	10	11	12						
RESERVED FORESTS.—(Contd.)																	
<i>Class C.—Pasture Reserves.</i>																	
BERAR CIRCLE.—(Contd.)	Akola	Pangra	Akola	Basim Taluq	4,545	7	4,545	7	No. 47/208-A, dated the 12th September 1918.	A. G. 5 excluded by correction.					
				Do.	Do.	Mangrul	26,877	43			26,877	43			
				Do.	Do.	Balapur	143	1			143	1			
				Morna	Do.	Akola	21,115	33			21,115	33			
				Do.	Do.	Akot	1,275	2			1,275	2			
				Balapur	Do.	Balapur	6,495	10			6,495	10			
				Murtizapur	Do.	Murtizapur	7,855	12	...	209			7,646	12			
				Total Akola Division...				68,305	107	...			209	68,096	107		
				Total C Class, Berar proper.				520,126	827	4			211	528,919	827		
				Total of all Classes Berar proper.				2,126,111	3,323	181			394	2,125,898	3,322		
<i>Class A.</i>																	
Nimar	Khandwa	Nimar	Susarda	864	1	864	1	No. 306/A-XV-3, dated the 7th January 1919.	A. G. 3 added by correction.						
			Kanapur	5,658	9	...	...	5,658	9						
			Berla	4,653	7	...	...	4,653	7						
			Undaria Baoria	2,867	4	...	...	2,867	4						
			Bhujwa	730	1	...	...	730	1						
			Baheria	1,030	2	...	...	1,030	2						
			Kirgaon	46,021	72	...	...	46,021	72						
			Total Khandwa Range				61,823	96	61,823	96			
			Punasa	Do.	Do.	Chauria	358	1	358	1			
						Bainpura	493	1	493	1			
	Gunjarl	2,944				5	2,944			5					
	Ajnal	1,331				2	1,331			2					
	Dehgaon	896				1	896			1					
	Punasa	88,192				138	88,192			138					
	Chirakhan	3,110				5	3,110			5					
Pural Dohad	738	1				...	...	738	1						
Total Punasa Range				98,062	154	98,062	154								
Chandgarh	Do.	Do.	Chandgarh	63,043	98	...	...	63,043	98						
			Basania	2,236	3	...	...	2,236	3						
			Abhawa	2,883	5	...	...	2,883	5						
			Dhanwani	2,853	5	...	...	2,853	5						
			Bhogani	1,620	3	...	...	1,620	3						
			Deha Darkali	15,492	24	...	...	15,492	24						
			Total Chandgarh Range				88,127	139	88,127	138					

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
RESERVED FORESTS.—(Contd.)											
<i>Class A.</i>											
BERAR CIRCLE.— (Contd.) Nimar	Singaji	Nimar	Singaji	21,266	33	...	...	21,266	33		
			Andhli	1,235	2	...	...	1,235	2		
			Khanda	446	1	...	...	466	1		
			Bainpura Kurwara	1,837	3	...	...	1,837	3		
			Agul	4,912	8	...	...	4,912	8		
			Kudwalia	9,541	15	...	...	9,541	15		
			Jhirnata	3,193	5	...	...	3,193	5		
			Chimaiapur	12,349	19	...	...	12,349	19		
			Partabpur	6,716	10	...	...	6,716	10		
			Total Singaji Range	61,495	96	...	...	61,495	96		
Kalibhit	Do.	Do.	Kalibhit	181,487	283	...	...	181,487	283		
			Total Kalibhit Range	181,487	283	...	...	181,487	283		
Piplod	Do.	Do.	Gondwana	116,454	182	...	...	116,454	182		
			Gogaipur	9,420	15	...	...	9,420	15		
			Bhainsa	51,264	80	...	...	51,264	80		
			Jholpura-Dongaria	3,407	5	...	...	3,407	5		
Total Piplod Range	180,545	282	...	...	180,545	282					
Chandni	Do.	Do.	Deharla	1,203	2	...	...	1,203	2		
			Amba	120,154	188	...	...	120,154	188		
			Asir	71,524	112	...	...	71,524	112		
			Mandwa	47,212	74	...	...	47,212	74		
Total Chandni Range	240,093	376	...	...	240,093	376					
Burhanpur.	Do.	Do.	Samardeo	43,731	68	...	...	43,731	68		
			Jambupani	108,046	169	...	...	108,046	169		
			Ichhadevi	15,290	24	...	...	15,290	24		
			Total Burhanpur Range	167,067	261	...	...	167,067	261		
Total Nimar Division	1,078,699	1,686	...	...	1,078,699	1,686					

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.		
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.				
1	2	3	4	5	6	7	8	9	10	11	12		
RESERVED FORESTS.—(Contd.)													
Class A.													
BERAR CIRCLE.— (Contd.)	Betul	Betul	Kharigondi	25,201	39	...	...	25,201	39		
			Mowar	22,323	35	...	...	22,323	35		
			Ladhdeo	4,004	6	...	...	4,004	6		
			Pathakhera	12,117	19	...	...	12,117	19		
			Thani	291	...	...	...	291	...		
			Ladi	30,136	47	...	...	30,136	47		
			Jamun Bichwa	401	1	...	...	401	1		
			Pastalai	1,036	2	...	...	1,036	2		
		Total Ranipur Range...		95,509	149	...	...	95,509	149		
	Asir	Do.	Punji	82,056	125	...	...	82,056	125		
			Sataldehi	883	2	...	...	883	2		
			Dhansai	1,012	2	...	...	1,012	2		
			Gwari	776	1	...	...	776	1		
			Dhapara	799	1	...	...	799	1		
			Amdhana	73,766	115	...	...	73,766	115		
			Saliwara	1,696	3	...	...	1,696	3		
			Golai	855	1	...	...	855	1		
				Total Asir Range		161,843	253	161,843	253		
			Bhawargarh	Do.	Barjorpur	861	1	...	56	805	1	No. 49/210-A, dated the 18th September 1918.	Disforested 56/56.
	Megdha	25,815			40	...	...	25,815	40		
	Katawari	30,554			48	...	...	30,554	48		
	Chapra	501			1	...	...	501	1		
	Jamgarh	29,186			46	...	...	29,186	45		
	Babahera	3,315			5	...	...	3,315	5		
	Salimet	5,506			9	...	...	5,506	9		
		Total Range. Bhawargarh		95,738	150	...	56	95,682	150				
	Saonligarh	Do.	Tokra	21,655	34	526	...	22,181	35	C. P. Secretariat Letter No. 70-C-XV, dated the 14th March 1919.	Transferred from B-1 Class.		
Pat			11,865	18	...	...	11,865	18			
Phoplia-North			15,559	24	...	...	15,559	24			
Phoplia-South			15,848	25	...	...	15,848	25			
Sangwant			288	...	...	...	288	...			
Gawasen			19,565	31	...	...	19,565	31			
Chikhli			1,880	3	...	...	1,880	3			
Khapa			1,692	3	...	...	1,692	3			
	Total Saonligarh Range		88,352	138	526	...	88,878	139					

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1918-19.—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other leads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
RESERVED FORESTS.—(Contd.)												
Class A.												
BERAR CIRCLE.—(Contd.)	Betul	Tapti	Betul	Kabra	411	1	411	1		
				Bahera	23,070	36	23,070	36		
				Dharjibar	2,542	4	2,542	4		
				Kiding	926	1	926	1		
				Anki	870	1	870	1		
				Piplia	25,242	40	25,242	40		
				Mohda	25,946	41	25,946	41		
				Nanda	17,675	28	17,675	28		
				Khamapur	20,451	32	20,451	32		
				Nishana	3,184	5	3,184	5		
				Chuna	19,036	30	19,036	30		
				Kund	1,501	2	1,501	2		
				Bodi	617	1	617	1		
				Kunkhedi	5,320	8	5,320	8		
				Nilgarh	8,557	13	8,557	13		
Majarwani	11,514	18	...	...	11,514	18					
Raksi	733	1	...	...	733	1					
			Total Tapti Range	167,635	262	...	...	167,635	262		
	Dabka	Do.	Pipria	18,102	28	...	...	18,102	28		
			Kalapakhan	17,615	27	...	...	17,615	27		
			Patia	14,442	23	...	...	14,442	23		
			Satkhund	27,192	42	...	...	27,192	42		
			Kcolari	1,150	2	...	...	1,150	2		
			Sukhi	535	1	...	...	535	1		
			Total Dabka Range	79,036	123	...	...	79,036	123		
	Sawalmendha.	Do.	Sawalmendha	16,779	26	...	...	16,779	26		
			Kakarpani	9,783	15	...	...	9,783	15		
			Dhaba	5,755	9	...	...	5,755	9		
			Patali	23,301	36	...	...	23,301	36		
			Chauthia	2,894	5	...	...	2,894	5		
			Ghoga	8,844	14	...	...	8,844	14		
			Total Sawalmendha Range.	67,356	105	...	...	67,356	105		
			Total Betul Division	755,469	1,180	526	56	755,039	1,181			
			Total A Class in Nimar and Betul.	1,834,168	2,866	526	56	1,834,638	2,867			

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed of Public Forest Land, and Leased Forests, 1918-19.—(Concl'd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1918.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1919.		No. and date of Notification of addition or transfer, etc.	Remarks.	
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.			
1	2	3	4	5	6	7	8	9	10	11	12	
RESERVED FORESTS—(Concl'd.)												
Class B-1.												
BERAR CIRCLE. (Concl'd.)	Betul	Saonligarh.	Betul	Tokra	526	1	...	526	...	...	C. P. Secretariat letter No. 70—C-XV, dated the 14th March 1919.	Transferred to A. Class.
				Gawasa	719	1	...	...	719	1		
				Total Saonligarh Range.	1,245	2	...	526	719	1		
	Tapti	Do.	Do.	Bahera	679	1	...	...	679	1		
				Kiding	556	1	...	...	556	1		
				Anki	2,058	3	...	...	2,058	3		
				Nanda	665	1	...	...	665	1		
				Kunkhedl	463	1	...	...	463	1		
	Total Tapti Range	4,421	7	...	...	4,421	7					
	Total B-1 Class, Betul Division.				5,666	9	...	526	5,140	8		
	Total B-1 Class, Nimar and Betul.				5,666	9	...	526	5,140	8		
	Total of all Classes, Nimar and Betul.				1,839,834	2,875	526	581	1,839,778	2,875		
	GRAND TOTAL OF ALL CLASSES IN BERAR CIRCLE.				3,965,945	6,197	707	976	3,965,076	6,197		
	GRAND TOTAL OF ALL CLASSES, CENTRAL PROVINCES AND BERAR.				12,575,044	19,648	2,510	4,599	12,572,955	19,645		

FORM NO. 8.—Progress made in Forest Settlements during the year 1918-19.

Forest Division.	Civil District or Territory.	Name of Forest.	Area in square miles.			Cost during year.		Entire cost per square mile of areas finally settled.	Government Notification of Settlement.	
			Finally settled during year.	In hand at commencement of year.	Taken in hand during year.	In Forest Accounts.	In other Accounts.		No.	Date.
1	2	3	4	5	6	7	8	9	10	11
NORTHERN CIRCLE.			RESERVED FORESTS							
			<i>A. Class.</i>							
North Mandla	Mandla	...	...	...	...	...	...	...	...	...
South Mandla	Mandla	...	...	...	...	...	...	...	...	...
Jubbulpore Narsinghpur.	Jubbulpore	...	...	...	...	...	...	...	...	...
	Narsinghpur	...	...	...	...	...	...	...	...	...
Damoh	Damoh	...	...	...	...	...	...	...	...	...
Saugor	Saugor	Manak Chank	04	04	...	...	...	...	6/33-B-XV,	dated the 31st February 1918.
Hoshangabad	Hoshangabad	...	...	...	...	...	...	...	...	...
Seoni	Seoni	Bijori Ryotwari	...	...	006	...	...	...	17/132-A-XV,	dated the 14th May 1918.
Chhindwara	Chhindwara	Chhapara	73	73	...	12 8 0	...	...	37/145-A,	dated the 6th July 1918.
Total for Northern Circle.			77	77	006	12 8 0	...	...	...	...
SOUTHERN CIRCLE.										
Balaghat	Balaghat	Serpar	...	212	...	...	...	...	26/216-A,	dated the 14th November 1917.
Bhandara	Bhandara	Dodmijhiri	108	03	...	...	...	...	9/73-B-XV,	dated the 15th March 1919.
Bilaspur	Bilaspur	...	...	...	...	...	...	...	...	...
North Chanda	Chanda	...	...	...	...	...	...	...	...	...
South Chanda	Chanda	...	...	...	...	...	...	...	...	...
Nagpur-Wardha	Nagpur	...	...	...	...	...	...	...	...	...
	Wardha	Belhara	055	055	...	...	...	...	24/112-B,	dated the 23rd May 1918.
North Raipur	Raipur	...	...	...	...	...	...	...	...	...
South Raipur	Raipur	Banbagoud	...	001	...	...	...	...	14-7-A,	dated the 31st January 1918.
		Maramsilli	...	...	065	...	...	...	16/124-A,	dated the 8th May 1919.
		Kurmajhar	...	...	037	...	...	...	Do.	Do.
		Karka	...	...	063	...	...	...	10/107-C-XV,	dated the 16th June 1919.
Total Southern Circle			063	276	105	...	...	...	...	...

FORM No. 8.—Progress made in Forest Settlements during the year 1918-19.—(Concl'd.)

Forest Division.	Civil District or Territory.	Name of Forest.	Area in square miles.			Cost during year.		Entire cost per square mile of areas finally settled.	Government Notification of Settlement.	
			Finally settled during year.	In hand at commencement of year.	Taken in hand during year.	In other Accounts.	In Forest Accounts.		No.	Date.
1	2	3	4	5	6	7	8	9	10	11
BERAR CIRCLE.										
RESERVED FORESTS.										
<i>A Class.</i>										
Melghat	Amraoti	Bhondilawa village, Tapti Reserve.	...	...	1'5	Rs.	Rs.	Rs.	1175-B-XV,	dated the 21st March 1919.
Amraoti	Amraoti	...	...	...	...	...	...	...	...	...
Buldana	Buldana	Dhalsawansi village, Gumi Reserve.	0'06	0'06	...	...	...	...	307-A-XV-1,	dated the 6th January 1919.
Yeotmal	Yeotmal	Raulderi village. A and C. Class.	...	...	3'3	...	...	...	44/97-C,	dated the 26th August 1918.
		Shekalgaon village, Dabhdhi Reserve.	...	...	'04	...	...	...	297-A-XV-57,	dated the 16th December 1918.
Akola	Akola	Injha and Kherda villages.	...	...	'04	...	...	...	15-121 A-XV,	dated the 8th May 1919.
Nimar	Nimar	...	...	...	...	...	...	...	...	...
Betul	Betul	...	...	...	...	...	...	...	...	...
Total Berar Circle			0'06	0'06	4'88	...	...	...	...	...
TOTAL CENTRAL PROVINCES AND BERAR...			1'46	3'59	5'159	13 8 0	...	...	...	...

FORM NO. 9.—[FOREST DEPARTMENT].—Record of Demarcation and Maintenance of Boundaries, 1918-19.

6

Division.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at close of the year.	Length of boundaries still to be demarcated at close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.		Remarks.
								On new work.	On repairs.	
1	2	3	4	5	6	7	8	9	10	11
NORTHERN CIRCLE.										
North Mandla	...	904	707	1,611	...	168	1,779	...	977	
South Mandla	...	941	257	1,198	...	137	1,335	...	1,314	
Jubbulpore-Narsinghpur	...	487	749	1,236	...	206	1,532	...	782	
Damoh	...	518	880	1,398	...	338	1,736	...	614	
Saugor	1	854	758	1,613	...	220	1,833	8	740	
Hoshangabad	2	152	360	512	...	60	572	25	656	
Seoni	...	1,218	458	1,676	...	229	1,905	7	*1,174	* Includes Rs. 317 price of white paint.
Chhindwara	1	125	1,326	1,452	...	19	1,471	26	516	
Total for the Circle	2 1/2	5,199	5,495	10,694 1/2	...	1,467	12,161 1/2	66	6,773	
SOUTHERN CIRCLE.										
Balaghat	...	674	595	1,269	...	119	1,388	...	967	
Bhandara	...	255	1,001	1,256	...	131	1,387	...	189	
Bilaspur	...	60	304	364	...	120	484	...	327	
North Chanda	...	247	1,829	2,076	...	230	2,306	...	765	
South Chanda	...	113	479	592	...	100	692	...	768	
Nagpur-Wardha	2	557	615	1,172	...	107	1,279	72	747	
North Raipur	...	439	...	439	...	119	558	...	221	
South Raipur	...	838	...	838	...	36	874	...	282	
Total	2	3,183	4,823	8,006	...	962	8,968	72	4,266	

FORM NO 9.—[FOREST DEPARTMENT].—Record of Demarcation and Maintenance of Boundaries
1918-19.—(Concl'd.)

Division.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at close of the year.	Length of boundaries still to be demarcated at close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.		Remarks.
								On new works.	On repairs.	
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Rs.	Rs.	
BERAR CIRCLE.										
Melghat	{ A Class	147	157	304	...	58	362	...	361	
	{ C Class	...	22	22	...	...	22	...	...
Amraoti	{ A Class	...	404	404	...	13	417	...	...
	{ C Class	...	3,048	3,048	...	17	3,065	...	...
Buldana	{ A Class	155	404	560	...	15	575	14	619	
	{ C Class	67	588	655	...	...	655	...	100	
Yeotmal	{ A Class	80	1,686	1,766	...	49	1,755	22	178	
	{ C Class	...	2,782	2,782	...	...	2,782	...	2	
Akola	A Class	17	541	393	951	17	11	979	259	576
Nimar	A Class	...	106	957	1,063	...	301	1,364	...	697
Betul	{ A Class	479	716	1,195	...	178	1,373	29	432	
	{ B-I Class	...	26	26	...	8	34	...	...
Total	...	18	1,515	11,183	12,716	17	650	13,383	324	2,965
GRAND TOTAL, CENTRAL PROVINCES AND BERAR.	...	23	9,897	21,501	31,421	17	3,099	34,537	462	14,004

FORM NO. 10.—[PRESCRIBED].—Statement of Forest areas

Division.	Area surveyed and under survey during the											
	Special surveys—Maps on 2 inch scale or over, by Survey of India Department.						Ordinary included in topographical Programme of the Survey of India or in District Surveys.					
	With interior details.			Boundary surveys.			With interior details.			Boundary surveys.		
	Previ- ous.	Of year.	Total cost.	Previ- ous.	Of year.	Total cost.	Previ- ous.	Of year.	Total cost.	Previ- ous.	Of year.	Total cost.
1	2	3	4	5	6	7	8	9	10	11	12	13
NORTHERN CIRCLE.												
North Mandla	754	...	57,267	...	...	...	...	...	...	32	...	...
South Mandla	1,135	...	57,388	...	...	...	...	...	...	21	...	...
Jubbulpore-Narsinghpur	590	...	69,486	...	...	...	...	...	...	...	...	...
Damoh	792	...	2,12,429	...	...	...	...	...	...	...	...	...
Saugor	752	...	79,030	...	...	...	...	...	...	...	...	...
Hoshangabad	211	...	18,873	...	...	...	...	...	...	...	...	...
Seoni	827	...	60,146	...	...	...	...	...	...	...	...	...
Chhindwara	712	...	49,185	...	...	...	...	...	...	...	...	...
Total Northern Circle	6,773	..	6,03,804	...	...	...	...	...	...	53	...	...
SOUTHERN CIRCLE.												
Balaghat	954	...	45,963	...	...	...	...	...	...	...	...	...
Bhandara	533	...	36,822	...	...	...	...	...	...	...	...	...
Bilaspur	(a) 624	...	(b) 42,549	...	...	...	...	...	...	...	...	...
North Chanda	...	...	...	...	...	...	...	...	...	...	...	...
South Chanda	3,066	...	86,959	...	...	...	...	...	...	...	...	...
Nagpur-Wardha	705	...	60,467	...	...	...	...	...	...	...	...	...
North Raipur	...	...	...	...	...	...	...	...	...	...	...	...
South Raipur	1,386	...	1,03,818	...	...	...	...	...	...	...	...	...
Total Southern Circle	7,268	...	3,76,618	...	...	...	...	...	...	...	...	...
BERAR CIRCLE.												
Melghat	1,169	...	...	...	...	...	...	...	...	(f) ...	...	...
Amraoti	6	...	...	...	...	(c) ...	39	...	...	...	...	...
Buldana	126	...	...	...	...	...	(d) 304	...	...	...	...	...
Yeotmal	...	...	...	...	...	...	732	...	...	...	...	...
Akola	...	...	...	...	...	...	212	...	...	...	...	...
Nimar	1,657	...	5,309	...	...	...	29	...	...	(g) ...	...	...
Betul	1,189	...	20,207	...	...	...	...	...	...	...	...	...
Total Berar Circle	4,147	...	25,516	...	...	...	1,316	...	...	...	...	...
GRAND TOTAL	18,188	...	10,05,938	...	...	...	1,316	...	...	53	...	...

surveyed and under survey during the year 1918-19.

year 1918-19.													Areas remaining to be taken under survey.	Total Forest area at end of the year as per Form No. 7.	Cost.			Remarks.
Chain and compass or other surveys by local officers.															Previous.	Of year.	Entire cost of all surveys at end of the year.	
With interior details.					Boundary surveys.			Total cost.										
4-inch or over		Under 4-inch.		Total cost.	Previous.	Of year.	Total cost.											
Previous.	Of year.	Previous.	Of year.					14	15	16	17	18	19	20	21	22	23	24	25	26	27
...	4	...	...	...	786	57,267	...	57,267						
1	1,161	57,388	...	57,388						
...	590	69,486	...	69,486						
...	792	2,12,429	...	2,12,429						
...	749	79,030	...	79,030						
...	951	18,873	...	18,873						
...	813	60,146	...	60,146						
...	664	49,185	...	49,185						
1	4	...	...	...	6,504	6,03,804	...	6,03,804						
...	979	45,963	...	45,963	(a)					
...	533	36,822	...	36,822						
...	545	42,549	...	42,549						
...	4	...	...	...	1,381	86,999	...	86,999						
...	283	60,467	...	60,467	(b)					
...	715	1,03,818	...	1,03,818						
...	6	...	...	...	515	...	...	...	(c)					
...	993	...	...	...			
...	10	...	...	...	(c) 6,944	3,76,618	...	3,76,618						
(a)	m	...	(a)...	...	...	...	(b) 7	1,176	2,16,516	...	2,16,516	(a)					
46	540	...	...	...	131	222	2,571	1,213	3,784						
(e)	430	429	...	429	(b)					
...	440	1,172	31,515	1,066	32,581						
...	110	322	4,849	462	5,311						
...	1,686	5,309	...	5,309	(c)					
...	1,189	20,207	...	20,207	(d)					
46	540	...	...	...	688	6,197	2,81,396	2,741	2,84,137	(e)					
47	540	14	...	...	688	19,645	12,61,818	2,741	12,64,559	(f)					

FORM NO. 11.—Progress made in Working Plans during the year 1918-19.

Division.	Area under sanctioned working plans.					Area not under working plans.			Total forest area in form No. 7. (Total of columns 5, 7, 8 and 9.)	Revisions.			Expenditure on working plans during the year.	Remarks.
	At commencement of year.	Added during year.	Deducted during year.	At close of year.		Plans under preparation.	Plans not under preparation.			Due or re-quired.	In progress at end of year.	Revised plans sanctioned during year.		
				Actual area.	Percentage of total forest area (as shown in column 10).		Re-quired at present.	Not re-quired at present.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NORTHERN CIRCLE.														
North Mandla	175	...	...	175	22.3	...	...	611	786	...	...	...	...	...
South Mandla	443*	...	...	443	38	...	...	717	1,160	...	...	...	...	*Includes 110 square miles of khennat soil Forests under rough scheme.
Jubbulpore-Narsinghpur	590	...	...	590	100	...	...	...	590	...	...	...	...	...
Damoh	792	...	...	792	100	...	...	...	792	...	...	...	...	...
Saugor	749	...	...	749	100	...	...	...	749	...	...	...	...	...
Hoshangabad	740	...	...	740	778	...	55	156	951	...	...	...	...	...
Seoni	813	...	...	813	100	...	...	...	813	...	...	...	...	...
Chhindwara	664	734	973	664	100	...	...	...	644	...	...	...	...	...
Total Northern Circle	4,966	734	973	4,956	79	...	55	1,483	6,504	...	...	...	...	...
SOUTHERN CIRCLE.														
Balaghat	963	...	...	963	98	...	2	(a) 14	979	...	...	...	...	(a) Afforested after the preparation of the sai-working plan and mostly village areas.
Bhandara	533	...	...	533	100	...	...	...	533	...	...	...	...	(b) Includes 15 square miles of B Class Forest.
Bilaspur	545	...	...	545	100	...	...	...	545	...	...	...	...	(c) B Class Forest.
North Chanda	1,127 (b)	...	...	1,127	81	...	...	(c) 254	1,381	1,112	...	...	...	(d) Sironcha Range.
South Chanda	643	...	...	643	50	(d) 307	...	(e) 333	1,283	...	(f) 65	...	...	(e) B Class Forest.
Nagpur-Wardha	715	...	...	715	100	...	...	...	715	...	...	...	...	(f) Wainganga felling series.
North Raipur	515	...	...	515	100	...	...	...	515	...	515	...	...	(g) Afforested since the old working plans were sanctioned.
South Raipur	968	...	...	968	97	(g) 22	...	(h) 3	993	...	...	968	...	(h) Land taken over from the Irrigation Department.
Total Southern Circle	6,009	...	...	6,009	86	329	2	604	6,944	1,112	1,548	...	...	...
BERAR CIRCLE.														
Meighat	1,169	...	...	1,169	99.4	...	...	(a) 7	1,176	...	...	...	...	(a) C Class forest.
Amraoti	6	...	...	6	3	216	...	...	222	...	...	...	...	(b) 1 square mile of A Class and 95 of C Class.
Baldana	430	...	...	430	100	...	...	...	430	...	...	...	...	Rs. 2,850 paid as honorarium.
Yeotmal	776	...	...	776	9,987	...	...	(b) 396	1,172	...	...	...	...	...
Akola	322	...	...	322	100	...	...	...	322	...	...	...	...	(c) B-1 Class to be disforested.
Nimar	1,686	...	...	1,686	100	...	...	...	1,686	...	...	...	...	...
Betul	1,180	1 (d)	...	1,181	99	...	...	(c) 8	1,189	...	...	...	...	(d) Area transferred from B-1 Class to A Class during the year.
Total Berar Circle	5,569	1	...	5,570	80	216	...	411	6,197	...	...	...	...	...
GRAND TOTAL, CENTRAL PROVINCES AND BERAR.	16,544	1	...	16,545	85	545	57	2,398	19,645	1,112	1,548	...	...	...

(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.

FORM NO. 11.—Progress made in Working Plans during the year 1918-19.

Division.	Area under sanctioned working plans.					Area not under working plans.			Total forest area in form No. 7. (Total of columns 5, 7, 8 and 9.)	Revisions.			Expenditure on working plans during the year.	Remarks.
	At commencement of year.	Added during year.	Deducted during year.	At close of year.		Plans under preparation.	Plans not under preparation.			Duc or re-quired.	In progress at end of year.	Revised plans sanctioned during year.		
				Actual area.	Per-cent- age of total forest area (as shown in column 10).		Re-quired at present.	Not re-quired at present.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NORTHERN CIRCLE.														
North Mandla	178	...	...	178	22.3	...	...	611	786	...	...	...	...	...
South Mandla	443*	...	...	443	38	...	...	717	1,160	...	...	...	...	*Includes 119 square miles of khennat soil Forests under rough scheme.
Jubbulpore-Narsinghpur	590	...	...	590	100	...	...	...	590	...	...	...	...	...
Damoh	792	...	...	792	100	...	...	...	792	...	...	...	...	...
Saugor	749	...	...	749	100	...	...	...	749	...	...	...	...	...
Heshangabad	740	...	...	740	77.8	...	55	156	951	...	...	...	...	...
Seoni	813	...	...	813	100	...	...	...	813	...	...	...	...	...
Chhindwara	664	734	973	664	100	...	...	...	644	...	...	...	...	...
Total Northern Circle	4,966	734	973	4,956	70	...	55	1,483	6,504	...	...	...	...	...
SOUTHERN CIRCLE.														
Balaghat	963	...	...	963	98	...	2	(d) 14	979	...	...	...	...	(a) Afforested after the preparation of the sai-working plan and mostly village areas.
Bhandara	533	...	...	533	100	...	...	...	533	...	...	...	...	(b) Includes 15 square miles of B Class Forest.
Bilaspur	545	...	...	545	100	...	...	...	545	...	...	...	...	(c) B Class Forest.
North Chanda	545	...	...	545	100	...	...	...	545	...	...	...	...	(d) Sironcha Range.
South Chanda	1,127 (b)	...	...	1,127	81	...	...	(c) 254	1,381	1,112	...	...	...	(e) B Class Forest.
Nagpur-Wardha	643	...	...	643	50	(d) 307	...	(e) 333	1,283	...	(f) 65	...	...	(f) Wainganga felling series.
North Raipur	715	...	...	715	100	...	...	...	715	...	...	...	...	(g) Afforested since the old working plans were sanctioned.
South Raipur	515	...	...	515	100	...	...	...	515	...	515	...	...	(h) Land taken over from the Irrigation Department.
South Raipur	968	...	...	968	97	(g) 23	...	(h) 3	993	...	...	968	...	(h) Land taken over from the Irrigation Department.
Total Southern Circle	6,009	...	...	6,009	86	320	2	604	6,944	1,112	1,548	...	...	...
BERAR CIRCLE.														
Melghat	1,169	...	...	1,169	99.4	...	...	(a) 7	1,176	...	...	...	...	(a) C Class forest.
Amraoti	6	...	...	6	3	216	...	...	222	...	...	...	...	(b) 1 square mile of A Class and 395 of C Class.
Buldana	430	...	...	430	100	...	...	...	430	...	...	...	...	Rs. 2,850 paid as honorarium.
Yeotmal	776	...	...	776	99.87	...	...	(b) 396	1,172	...	...	...	...	...
Akola	322	...	...	322	100	...	...	...	322	...	...	...	...	(c) B-I Class to be disforested.
Nimar	1,686	...	...	1,686	100	...	...	...	1,686	...	...	...	...	(d) Area transferred from B-I Class to A Class during the year.
Betul	1,180	1 (d)	...	1,181	99	...	...	(c) 8	1,189	...	...	...	...	(d) Area transferred from B-I Class to A Class during the year.
Total Berar Circle	5,569	1	...	5,570	80	216	...	411	6,197	...	...	...	...	...
GRAND TOTAL, CENTRAL PROVINCES AND BERAR.	16,544	1	...	16,545	85	545	57	2,498	19,645	1,112	1,548	...	...	...

(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 15 regarding temporary suspensions pending revision.
(iv) New areas included in, or areas thrown out during revisions will be shown in columns 2, 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.

Division.	New works undertaken during the year.															
	Buildings.					Roads and paths.								Other works.		
	Expenditure on				Total expenditure incurred.	Cart-roads.		Bridle-paths.		Others.		Total length of paths or roads.	Total expenditure incurred.	Expenditure incurred.	Total expenditure on new works.	
	Head-quarter houses.	Rest-houses.	Houses for subordinate establishment.	Others.		Length.	Cost.	Length.	Cost.	Length.	Cost.					
1	2 (a)	2 (b)	2 (c)	2 (d)	3	4 (a)	4 (b)	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.	
NORTHERN CIRCLE.																
North-Mandla	1,721	...	1,721	4' 50	306	...	...	...	...	4' 50	306	...	2,028	
South-Mandla	1,556	...	1,556	0' 64	1,355	...	...	4 0	80	4' 64	1,355	248	3,159	
Jubbulpore-Narsinghpur	1,009	...	1,009	5' 40	4,839	...	...	...	...	5' 40	4,839	211	6,059	
Damoh	567	3,466	188	4,221	1' 17 1/2	2,104	...	...	7 7 1/2	130	19 6 1/2	2,234	604	7,059 1/2
Saugor	963	171	1,134	3' 20	1,556	...	...	2 40	100	5 60	1,666	88 1/2	3,683
Hoshangabad	979	...	979	6' 30	3,181	...	...	11 60	233	18 10	3,414	1,496	5,859
Seoni	11	...	11	2' 0 1/2	(c) 9,762	...	...	13 5	275	33 4 1/2	10,037	94	10,142
Chhindwara	3,076	...	3,076	3' 6 1/2	1,594	...	...	...	...	3 6 1/2	1,094	797	5,377
Total Northern Circle	567	12,782	359	13,708	5' 67 1/2	(e) 24,627	...	...	39 10	818	96 1 1/2	25,545	4,743	41,396
SOUTHERN CIRCLE.																
Balaghat	2,895	...	2,895	0' 66	(a) 1,227	...	...	2	50	2' 66	1,277	56	4,228
Balaghat School	836	104	940	...	...	...	...	...	...	...	...	23	953
Bhandara	433	69	502	3' 0	1,643	...	...	...	...	3' 0	1,643	529	2,673
Bilaspur
North-Chanda	399	578	...	977	...	...	...	...	...	...	...	...	...	977
South-Chanda	1,317	...	1,317	...	...	...	...	...	...	...	...	104	1,421
Nagpur-Wardha	1,354	38	1,392	28' 0	5,203	...	...	13	31	41' 0	5,234	759	7,405
North-Raipur	834	...	834	13' 70	(c) 8,466	...	...	...	...	13' 70	8,466	3,151	12,451
South-Raipur	3,612	...	3,612	16' 6 1/2	(d) 7,338	...	...	...	...	16' 5 1/2	7,338	6,286	17,336
Total Southern Circle	339	11,839	211	12,389	61' 41	23,876	...	...	15	81	77' 4 1/2	23,957	10,938	47,284
BERAR CIRCLE.																
Melghat	2,237	437	2,674	32 0	6,499	10 0	61	...	...	42 0	6,560	355	9,580
Amraoti	1,427	109	1,536	3 60	4,382	...	...	...	...	5 60	4,382	509	6,489
Buldana	119	31	150	0 17	276	...	...	...	...	0 17	276	73	554
Yeotmal	60	119	...	179	3 25	963	21 70	268	0 16	273	25 31	1,504	503	2,037
Akola
Nimar	64	...	64	6 7	2,117	...	...	...	...	6 7	2,117	3,038	4,219
Betul	223	...	223	5 0	1,129	18 0	169	103 0	423	126 0	1,701	3,263	5,202
Total Berar Circle	282	3,847	620	4,749	50 29	15,266	49 70	498	103 16	676	203 35	16,540	7,156	23,445
TOTAL CENTRAL PROVINCES AND BERAR.	...	1,183	28,468	7,190	30,846	170 0	63,869	50 0	498	157 0	1,575	377 0	65,942	22,337	1,19,125	

Abs
SOUTHERN
Roads.
Rs.
New works ... 23,957
Old works ... 27,437
Total ... 51,394

Communications and Buildings during the year 1918-19.

Repairs executed during the year.																	
Buildings					Roads and Paths.										Other works.		Remarks.
Expenditure on				Total expenditure incurred.	Cart-roads.		Bridle-paths.		Others.		Total length of paths or roads.	Total expenditure incurred.	Total expenditure incurred.	Total expenditure incurred.			
Head-quarter houses.	Rest-houses.	Houses for subordinate establishments.	Others.		Length.	Cost.	Length.	Cost.	Length.	Cost.							
9 (a)	9 (b)	9 (c)	9 (d)	10	11 (a)	11 (b)	11 (c)	11 (d)	11 (e)	11 (f)	12	13	14	15	16		
Rs.	Rs.	Rs.	Rs.	Rs.	M. Ch.	Rs.	M. Ch.	Rs.	M. Ch.	Rs.	M. Ch.	Rs.	Rs.	Rs.	Rs.		
...	...	520	...	520	40' 40"	284	...	...	6 40	66	47 0	350	149	1,023	
...	365	1,050	218	1,633	92' 0"	769	69 0	435	4	161	165 0	1,395	152	3,150			
...	304	1,365	99	1,766	90' 0"	(a) 1,255	3 0	30	33 40	165	126 40	1,450	454	3,670	(a) Includes Rs. 682 spent on repairs of 14 miles of District Council road.		
...	330	1,340	...	1,670	407' 74"	(b) 4,765	...	...	126 60	438	514 54	2,201	251	4,123	(b) Includes Rs. 235 spent on repairs of 58 miles of District Council roads.
...	431	1,445	35	1,879	210' 0"	1,407	...	...	10 0	76	220 0	1,483	152	3,513	
...	238	1,520	87	1,855	495' 10"	5,456	...	...	...	...	495 60	5,426	950	8,258	
...	422	1,431	178	2,011	120' 48"	1,172	...	...	11 0	286	131 48	1,458	252	3,707	(c) includes Rs. 92 on carriage of tools.
...	...	584	...	584	110' 45"	630	...	...	...	...	110 45	630	70	1,584	
...	2,068	9,342	(d) 617	12,227	1,567 27	12,756	72 0	465	191 60	1,193	1,631 7	14,293	2,423	29,013	(d) Includes Rs. 329 on account of pay of Malis. (e) (i) Includes Rs. 572 on account of 159 miles and 23 chains of cart roads aligned during the year and Rs. 282 for constructing 2 causeways. (ii) Includes Rs. 5,024 on account of 3 miles and 79 chains of roads constructed during the year with a view to provide labour owing to famine. A special grant was sanctioned by Government for this purpose.		
...	552	1,560	127	2,046	282	3,438	...	...	7	15	196	3,454	739	6,239	(a) Includes Rs. 27 spent on alignment and Rs. 650 from allotment for famine relief.
...	...	...	...	...	...	477	...	...	...	...	...	497	371	868	
...	565	582	28	973	184	537	...	...	...	...	184	537	130	1,640	
...	161	252	177	531	209	(b) 6,619	...	...	...	...	209	6,619	178	7,328	(b) Includes Rs. 5,270 spent from allotment for famine relief on 38 miles of roads.
...	450	887	...	1,343	520	2,351	...	...	...	...	520	2,351	643	4,337	
...	1,403	690	265	2,627	568	8,283	...	...	9	216	577	8,499	740	11,966	
...	79	772	14	865	421	1,853	...	...	...	...	481	1,853	422	3,140	
...	56	523	136	752	181	981	8 0	8 0	...	...	189	929	754	2,425	(c) Includes Rs. 2,707 spent from allotment for famine relief and Rs. 402 spent on alignments.
...	200	87	1,778	2,065	220	2,638	...	...	...	...	220	2,638	342	5,045	(d) Includes Rs. 76 spent on alignments.
...	330	5,326	6,918	687	11,203	2,562	27,197	8 0	8 0	16	232	2,586	27,437	4,319	42,955		
...	161	805	1,450	1,311	3,817	440 0	2,863	306 0	624	...	746 0	3,487	694	7,988			
...	25	294	...	...	520	102 0	10,024	...	...	...	102 0	10,024	184	10,588	
...	90	700	366	76	1,261	175 0	1,205	39 40	38	32 0	188	246 40	1,431	303	2,995		
...	122	619	45	757	41 20	170	...	...	...	...	41 20	170	477	1,434	
...	15	416	...	431	100 0	484	...	...	...	...	100 0	484	416	1,331	
...	256	2,208	33	2,807	424 60	1,223	...	...	...	...	424 60	1,223	1,458	5,558	
...	511	1,174	...	1,685	295 0	1,506	9 0	61	...	...	304 0	1,567	525	3,777	
...	652	2,554	6,547	1,465	11,228	1,578 0	17,475	354 40	723	32 0	188	1,964 40	18,366	4,057	33,671		
...	852	8,028	22,007	2,769	31,657	5,707 0	57,405	434 0	1,126	240 0	1,612	6,381 0	60,216	10,790	1,05,672		

tract.

CIRCLE.

Buildings.	Other Works.
Rs.	Rs.
12,359	10,938
11,202	4,319
<u>23,591</u>	<u>15,257</u>

FORM NO. 13.—Statement showing register of breaches of

Forest Division.	Cases pending from previous year.			New cases of the year.															
				Injury to forest by fire.			Unauthorized felling.			Unauthorized grazing.			Other offences.			Total			
	A	B	All	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
NORTHERN CIRCLE.																			
North Mandla	(a)15	15	...	...	13	...	343	4	1	253	...	...	15	...	1	641	17
South Mandla	40	40	...	5	2	...	340	3	1	197	...	...	...	...	1	541	5
Jubbulpore-Narsinghpur	...	1	70	71	...	6	6	1	276	53	2	218	...	...	14	...	3	514	59
Damoh	...	(b)3	(c)72	75	...	3	18	2	161	62	...	259	6	6	20	10	8	443	96
Saugor	...	1	55	56	...	...	...	...	280	43	2	323	4	...	3	...	2	66	47
Hoshangabad	...	1	9	10	...	1	6	...	211	7	...	97	9	...	3	2	...	212	24
Soni	59	59	1	...	22	3	133	2	3	121	1	...	6	...	7	206	25
Chhindwara	...	3	(d)83	86	1	7	14	1	231	8	15	358	...	1	9	...	18	605	22
Total Northern Circle	...	9	403	412	2	22	81	7	1875	182	24	1826	20	7	70	12	40	3793	295
SOUTHERN CIRCLE.																			
Balaghat	77	77	...	5	...	4	172	17	1	194	...	...	12	...	5	383	17
Bhandara	...	1	28	29	...	1	...	1	92	3	...	154	1	...	1	...	1	228	4
Bilaspur	12	12	1	...	11	...	81	...	...	63	...	...	3	...	1	147	11
North Chanda	...	1	46	47	...	...	1	1	568	11	1	184	...	...	4	...	2	556	12
South Chanda	37	37	...	4	...	...	236	20	...	191	...	2	22	...	3	453	20
Nagpur-Wardha	...	1	19	20	...	...	5	...	22	3	6	232	...	1	21	...	7	285	8
North Raipur	...	7	58	65	...	...	10	5	70	...	2	148	...	1	14	...	8	232	10
South Raipur	...	2	85	87	2	1	...	...	146	2	3	222	...	...	5	...	5	372	9
Total Southern Circle	...	12	362	374	3	17	27	11	1197	56	13	1368	1	5	80	...	32	2656	84
BERAR CIRCLE.																			
Meighat	14	14	...	9	...	...	93	...	...	117	...	...	13	...	...	232	...
Amraoti	...	5	114	119	...	...	1	...	66	...	1	198	...	...	29	...	1	293	1
Buldana	71	71	...	1	4	1	78	...	3	383	...	...	6	...	4	468	4
Yeotmal	195	195	1	4	10	6	301	58	13	927	16	...	165	1	20	1,457	85
Akola	75	75	...	6	2	2	77	11	5	292	...	2	60	2	9	435	15
Nimar	98	98	...	9	10	1	153	44	4	645	...	2	99	...	7	906	54
Betul	1	6	5	10	218	16	3	168	...	...	12	...	14	404	21
Total Berar Circle	...	5	567	572	2	25	32	20	986	129	29	1,790	16	4	384	3	55	4,195	120
GRAND TOTAL, CENTRAL PROVINCES AND BERAR	...	26	1,232	1,258	7	68	140	38	4,058	367	66	5,984	37	16	534	15	127	10,644	559

N.B.—A means
B means cases disposed of under
C means

Forest Rules during the year 1918-19.

Total cases.				Disposed of during the year.														Cases pending at close of year.			Remarks.
				Convictions.				Acquittals.				Total.									
				Cases.		Persons.		Cases.		Persons.		Cases.			Persons.						
A	B	C	All	A	B	A	B	A	B	A	B	A	B	All	A	B	All	A	B	All	41
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
1	626	17	644	1	578	1	1524	...	...	...	...	1	578	579	1	1,134	1,535	...	48	48	(a) Out of 16 cases 1 was written off lately.
1	582	5	588	1	485	1	1297	...	...	...	...	1	485	786	1	1,297	1,298	...	97	97	
4	584	50	647	3	511	8	1325	1	...	13	...	4	511	515	21	1,325	1,346	...	73	73	
11	515	96	622	7	452	16	1240	1	...	1	...	8	462	470	27	1,240	1,267	3	53	56	b) Out of 5 cases 2 were withdrawn and compounded lately.
3	661	47	711	1	618	1	1608	2	...	2	...	3	618	621	3	1,608	1,611	...	43	43	
1	211	24	246	1	217	3	480	...	...	...	...	1	217	218	3	480	483	...	4	4	c) Out of 78 cases 6 were written off during the year.
7	319	25	351	3	293	4	675	4	...	11	...	7	293	300	15	675	690	...	26	26	
21	688	22	731	17	559	20	1,045	1	...	15	...	18	559	577	35	1,045	1,080	3	129	132	(d) Out of 89 cases 6 were written off lately.
49	4,196	295	4,540	34	3,723	64	9,204	9	...	42	...	43	3,723	3,766	106	9,204	9,310	6	473	479	
5	460	17	482	5	423	32	1,037	...	...	8	...	5	423	428	40	1,037	1,077	...	37	37	
2	256	4	262	2	225	12	685	...	2	...	2	2	227	229	12	687	699	...	29	29	
1	159	11	171	1	139	3	377	...	2	...	2	1	141	142	3	379	382	...	18	18	
3	602	12	617	3	498	4	1,575	...	...	...	...	5	498	501	4	1,575	1,579	...	104	104	
3	490	20	513	3	457	5	1,298	...	...	...	...	3	457	460	5	1,298	1,303	...	33	33	
8	304	8	320	3	264	3	690	2	...	17	...	5	264	269	20	690	710	3	40	43	
15	290	10	315	6	241	21	682	6	2	43	4	12	243	255	64	686	750	3	47	50	
7	457	2	466	5	387	4	1,100	1	2	5	2	6	389	395	9	1,102	1,111	1	68	69	
44	3,018	84	3,146	28	2,654	84	7,444	9	8	73	12	37	2,642	2,679	157	7,454	7,611	7	376	383	
...	246	...	246	...	221	...	550	...	...	...	...	...	221	221	...	550	550	...	25	25	
6	407	1	414	3	333	7	1,110	2	2	2	8	5	357	342	9	1,118	1,127	1	70	71	*Written off.
4	539	4	547	4	480	4	1,222	...	...	...	...	4	480	493	4	1,222	1,226	...	50	50	
20	1,652	85	1,757	18	1,350	35	3,612	2	...	11	...	20	1,350	1,370	46	3,612	3,658	...	302	302	
9	510	15	534	6	461	23	1,659	2	...	7	...	8	461	469	30	1,659	1,689	1	49	50	
7	1,004	54	1,065	6	924	9	2,929	1	...	1	...	7	924	931	10	2,929	2,999	...	80	80	
14	404	21	439	8	404	18	990	5	...	86	...	13	404	417	104	990	1,094	1	...	1	
60	4,762	180	5,002	45	4,182	96	12,132	12	4	107	8	57	4,186	4,243	203	12,140	12,343	3	576	579	
153	11,970	559	12,688	107	10,539	244	28,780	30	12	222	18	137	10,551	10,698	466	28,798	29,164	16	1,425	1,441	

cases taken into Court Section 67 of the Indian Forest Act, 1878, undetected cases.

ANNUAL FORM NO. 14.—[PRESCRIBED].—Area of Forest Tracts protected from fire during the year 1918-19.

Division.	Forest Tracts.	Year in which protection commenced.	Area protected during 1917-18.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks.
1	2	3	4	5	6	7	8	9
			Acres.	Acres.	Acres.	Acres.	Rs.	
	NORTHERN CIRCLE.							
	<i>Systematically fire protected area.</i>							
North-Mandla.	Mandla Range	...	7,913	8,317	...	8,317	170	
	Dhanwahi "	...	48,404	48,404	1,554	46,850	690	4 Fires.
	Total for Division	...	56,317	56,721	1,554	55,167	860	Failure '27 per cent.
South-Mandla.	Jagmandal Range	...	35,984	35,984	...	35,984	899	
	Banjar "	...	62,418	62,512	12	62,500	1,202	1 Fire.
	Motinala "	...	85,876	86,114	330	85,784	1,846	2 "
	Karanjaia "	...	68,629	68,629	...	68,629	833	
Total for Division	...	252,907	253,239	342	252,897	4,780	Failure '13 per cent.	
Jubbulpore-Narsinghpur.	Murwara Range	...	38,865	38,783	...	38,783	933	
	Sehora "	...	10,235	10,235	782	9,453	514	1 Fire.
	Jubbulpore "	...	36,858	34,886	...	34,886	672	
	Burgi "	...	4,770	4,770	...	4,770	306	
	Bachai "	...	22,717	26,369	575	25,794	477	3 "
	Richhai "	...	6,248	6,248	88	6,160	169	1 "
	Khairi "	...	40,083	40,513	33	40,480	362	1 "
Total for Division	...	159,776	161,814	1,478	160,326	3,433	Failure '91 per cent.	
Damoh	Fatchpur Range	...	64,657	50,090	504	49,586	1,023	2 Fires.
	Damoh "	...	47,655	47,786	358	47,428	759	6 "
	Tendukhera "	...	107,614	93,348	4,476	88,872	1,312	11 "
	Singrapur "	...	40,120	33,889	138	33,751	633	1 "
Total for Division	...	260,046	225,113	5,476	219,637	3,727	Failure '24 per cent.	
Saugor	Kurai Range	...	13,465	13,465	...	13,465	198	
	Saugor "	...	20,291	20,336	...	20,336	645	
	Banda "	...	16,121	17,413	...	17,413	105	
	Rehli "	...	16,798	17,311	46	17,265	331	1 Fire.
	Deori "	...	20,824	21,007	74	20,933	679	1 "
Total for Division	...	87,499	89,532	120	89,412	1,961	Failure '13 per cent.	

ANNUAL FORM NO. 14—[PRESCRIBED].—Area of Forest Tracts protected from fire during the year 1918-19.

Division.	Forest Tracts.	Year in which protection commenced.	Area protected during 1917-18.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks
1	2	3	4	5	6	7	8	9
	NORTHERN CIRCLE—(Concl'd.)		Aores.	Acres.	Acres.	Acres.	Rs.	
	<i>Systematically fire protected area.—(Concl'd.)</i>							
Hoshangabad.	Bori Range ...	...	170,638	170,638	...	170,638	1,133	
	Sohagpur ...	...	59,646	18,742	3,171	15,571	1,327	2 Fires.
	Hoshangabad "	...	53,580	16,348	2,063	14,285	874	3 "
	Seoni "	...	81,588	22,216	3,796	18,420	955	3 "
	Rahatgaon "	...	94,843	59,330	115	59,215	916	1 "
	Magardha "	...	86,287	75,116	27	75,089	316	2 "
	Total for Division ...	...	5,46,582	3,62,390	9,172	3,53,218	5,501	Failure 25 per cent.
Seoni	Korai Range ...	...	76,307	66,606	229	66,377	1,397	2 Fires.
	Ganginala "	...	67,858	67,960	306	67,654	1,174	1 "
	Ugli "	...	21,149	21,149	110	21,039	971	1 "
	Chhapara "	...	2,204	2,366	...	2,366	236	
	Dhooma "	...	1,923	2,255	...	2,255	118	
	Nerbudda "	...	13,946	10,088	...	10,088	784	
	Total for Division ...	...	1,83,387	1,70,424	645	1,69,779	4,681	Failure 38 per cent.
Chhindwara	Umreth Range ...	...	43,862	52,715	430	52,285	608	6 Fires.
	Amarwara "	...	33,558	34,002	435	33,567	157	4 "
	Ambara "	...	60,783	71,659	2,303	69,356	669	5 "
	Sank "	...	32,414	33,517	...	33,517	191	
	Sillewani "	...	47,612	47,716	308	47,408	729	6 "
	Total for Division ...	...	2,18,229	2,39,609	3,476	2,36,133	2,354	Failure 145 per cent.
	Deduct Rs. 220. vide Comptroller's, Central Provinces, March Final Accounts on Chhindwara Accounts.	...	...	...	...	...	220	
	Total ...	...	...	...	...	...	2,134	
	Total Northern Circle..	...	1,764,743	1,558,832	22,263	1,536,569	27,077	Protected 98.57 per cent.

ANNUAL FORM NO. 14.—[PRESCRIBED].—Area of Forest Tracts protected from fire during the year 1918-19.

Division.	Forest Tracts.	Year in which protection commenced.	Area protected during 1917-18.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks.
1	2	3	4	5	6	7	8	9
			Acres.	Acres.	Acres.	Acres.	Rs.	
	SOUTHERN CIRCLE.							
Balaghat	Sonawani	1889	72,239	72,263	1,052	71,211	1,815	1 Fire.
	Paraswara	1872	56,087	59,097	279	58,818	798	3 Fires.
	Raigarh	1867	67,514	67,514	...	67,514	1,004	
	Dhansua	1889	67,939	68,078	573	67,505	1,151	2 Fires.
	Lanji	1896	34,719	34,801	143	34,658	1,089	4 "
	Baihar	1899	49,552	52,069	...	52,069	1,384	
	Total	...	3,48,050	3,53,822	2,047	3,51,775	7,241	Failure '58 per cent.
Bhandara	Bawanthari	1894	54,089	64,296	82	64,214	565	1 Fire.
	Gaikhuri	1888	32,157	72,445	1,098	71,347	1,119	4 Fires.
	Pertabgarh	1894	12,331	38,652	3,032	35,620	515	14 "
	Wainganga	1894	38,539	44,198	112	44,086	542	4 "
Total	...	1,37,116	2,19,591	4,324	2,15,267	2,742	Failure '97 per cent.	
Bilaspur	East-Lormi	1892	1,53,916	154,125	403	153,722	1,512	1 Fire.
	West-Lormi	1892	126,068	126,704	79	126,625	1,093	1 "
	Kuajathi Pantora	1888	46,798	62,470	603	61,867	1,226	9 Fires.
Total	...	3,26,782	3,43,299	1,085	3,42,214	3,831	Failure '32 per cent.	
North-Chanda.	Moharli	1873	1,54,745	1,61,553	155	1,61,398	2,341	5 Fires.
	Haveli	1891	1,15,363	1,19,463	123	1,19,330	2,436	1 "
	Warora	1854	39,615	46,338	...	46,338	351	
	Gunjewahi	1885	20,377	28,910	...	28,910	295	
	Brahmapuri	1897	6,573	6,573	...	6,573	412	
	Total	...	3,36,673	3,62,837	288	3,62,549	5,835	Failure '08 per cent.

ANNUAL FORM NO. 14.—[PRESCRIBED].—Area of Forest Tracts protected from fire during the year 1918-19.

Division.	Forest Tracts.	Year in which protection commenced.	Area protected during 1917-18.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks.
1	2	3	4	5	6	7	8	9
			Acres.	Acres.	Acres.	Acres.	Rs.	
	SOUTHERN CIRCLE.—(Concl'd).							
South-Chanda.	Alapilli	1873	72,909	72,946	170	72,776	2,073	1 Fire.
	Ghot	1897	3,182	...	...	...	...	This area was early burnt during the year.
	Markhanda	1891	77,565	77,565	20	77,545	1,078	1 Fire.
	Sironcha	(a) 1897	97,836	97,901	379	97,522	731	4 Fires (a) Partial protection.
		(b) 1907	...	...	...	...	...	(b) Systematic protection
	Dhaba	1889	7,985	8,260	...	8,260	405	
	Total	...	259,477	256,672	569	256,103	4,287	Failure '22 per cent.
Nagpur-Wardha.	East-Pench	1875	70,686	104,372	...	104,372	1,169	
	West-Pench	1878	25,573	39,606	425	39,181	805	2 Fires.
	Kondhali	1894	33,767	38,864	9	38,855	570	1 Fire.
	Umrer	1895	32,435	40,740	1,234	39,506	720	3 Fires.
	Hingni	1894	33,653	42,280	383	41,897	381	2 "
	Arvi	1880	42,963	50,536	3	50,533	826	1 Fire.
	Total	...	239,077	316,398	2,054	314,344	4,471	Failure '60 per cent.
North-Raipur.	Laon	1889	52,986	54,146	390	53,756	1,183	2 Fires.
	Mahasamund	1889	29,730	31,419	1,088	30,331	756	6 "
	Sonakhan	1870	67,641	67,664	885	66,779	860	1 Fire.
	Bilari Ghugwa	1900	1,606	1,606	900	706	64	1 "
	Total	...	151,963	154,835	3,263	151,572	2,863	Failure 2'11 per cent.
South-Raipur.	Dhamtari	1896	53,699	54,174	180	53,994	1,021	1 Fire.
	Singhpur	1896	81,459	81,993	1,208	80,785	805	5 "
	Balod	1896	65,435	67,859	578	67,281	805	1 "
	North-Sihawa	1890	112,067	113,275	...	113,275	530	
	South-Sihawa	1903	131,017	131,017	110	130,907	1,256	3 Fires.
	Total	...	443,677	448,318	2,076	446,242	4,417	Failure '46 per cent.
	Total Southern Circle..	...	2,212,815	2,455,772	15,506	2,440,066	35,687	Protected 99'36 per cent.

ANNUAL FORM NO. 14 —[PRESCRIBED].—Area of Forest Tracts protected from fire during the year 1918-19.

Division.	Forest Tracts.	Year in which protection commenced.	Area protected during 1917-18.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	No. of Fires.	Remarks.
1	2	3	4	5	6	7	8	9	10
			Acres.	Acres.	Acres.	Acres.	Rs.		
	BERAR CIRCLE.								
Melghat.	Sembadoh Range ...	1872	77,695	77,695	...	77,695	7,098	...	(a) 167,938 acres were early burnt. 18.3 per cent was accidentally burnt after Departmental firing had been stopped.
	Chaorakund " ...		63,869	63,877	...	63,877		...	
	Butrum " ...		81,906	81,928	21	81,907		3	
	Khandu " ...		89,986	89,986	1	89,985		1	
	Gugamal " ..	1877	138,504	(a) 138,517	421	138,096		3	
	Chikalda " ...	1890	34,241	34,242	...	34,242		...	
	Tapti Reserve ...	1911	26,672	26,862	...	26,862		...	
	Chikli " ...	1913	8,535	(a) 8,535	150	8,385		2	
	Bod " ...		2,906	2,906	52	2,854		1	
	Motha " ...		18,586	18,586	...	18,586		...	
	Jhapnadeo " ...	1914	10,585	10,585	...	10,585		...	
Khatkali " ...	1911	13,444	(a) 13,444	...	13,444	...			
Dabida " ...	...	...	(b) 12,983	416	12,567	1	(b) Protected to provide grass to the Military Department.	
	Total	566,929	580,146	1,061	579,085	7,098	11	Percentage of success 99.8.
Amraoti.	Amraoti Range ...	1881	18,367	18,382	...	18,382	(c) Rs. 18 omitted being the cost of protection of Hattighat Ramna debitable to A-II.
	Morsi " ...	1889	19,466	19,511	25	19,486	(c) 79	1	
	Total	37,833	37,893	25	37,868	79	1		Percentage of success 99.9.
Buldana.	Jalgaon Range	54	...	
	Chikhli " ...	...	...	...	...	...	35	...
	Purna " ...	...	...	...	...	...	...	...
	Mehkar " ...	...	...	...	...	...	8	...
	Total	97	...	

ANNUAL FORM NO. 14.—[PRESCRIBED].—Area of Forest Tracts protected from fire during the year 1918-19.

Division.	Forest Tracts.	Year in which protection commenced.	Area protected during 1917-18	Area attempted to be protected.	Failures.	Area actually protected	Cost.	No. of Fires.	Remarks.
1	2	3	4	5	6	7	8	9	10
	BERAR CIRCLE— (Conc'd.)		Acres.	Acres.	Acres.	Acres.	Rs.		
Yeotmal.	Yeotmal Range ...	...	52,079	59,424	605	58,819	51	2	
	Darwha " ...	1882	39,748	41,308	...	41,308	...	...
	Ghatanji " ...	...	48,567	48,667	155	48,512	6	2	
	Kelapur " ...	1881	66,518	72,637	228	72,409	...	3	
	Wun " ...	1893	40,245	44,251	156	44,095	...	2	
	Pusad " ...	1880	58,624	62,636	40	62,596	...	3	
	Umarkhed " ...	...	49,022	49,049	...	49,049	...	...
	Kinwat " ...	1881	117,890	117,890	15	117,875	...	1	
	Total ...	...	4,72,793	4,95,862	1,199	4,94,663	57	13	Percentage of success 99.7.
Akola ...	Pangra Range ...	1882	44,863	44,863	...	44,863	7	...	(d) 11,000 acres were burnt departmentally to improve the grass crop.
	Morna " ...	1891	21,711	21,711	...	21,711	35	...	
	Balapur " ...		34,824	34,824	...	34,824	6	...	
	Murtizapur " ...	1912	...	...	...	...	...	...
	Total ...	...	1,01,398	(d) 1,01,398	...	101,398	48	...	Percentage of success 100.
Nimar ...	Khandwa Range ...	1877	40,321	42,897	450	42,447	850	2	
	Punasa " ...	1875	92,798	93,698	...	93,698	1,385	...	
	Chandgarh " ...	1878	81,250	88,127	2,613	85,514	1,559	2	
	Singaji " ...	1893	44,170	44,170	1,740	42,430	1,085	2	
	Kalibhit " ...	1874	181,487	181,444	1,228	180,216	2,082	3	
	Piplod " ...	1880	48,545	62,592	25,303	37,289	848	4	
	Chandni " ...	1893	24,455	116,941	7,520	109,421	493	7	
	Burhanpur " ...	...	...	82,906	4,414	78,492	6	3	
	Total ...	...	5,13,036	7,12,775	43,268	6,69,507	8,308	23	Do. 94
Betul ...	Ranipur Range ...	1880	52,283	53,840	825	53,015	802	2	
	Bhawargarh " ...	1875	58,450	58,738	500	58,238	1,238	2	
	Saonligarh " ...		69,395	69,922	1,940	67,982	1,364	1	
	Tapti " ...	1901	75,479	77,279	3,600	73,679	1,143	1	
	Asir " ...		5,480	5,480	...	5,480	895	...	
	Dabka " ...	1897	...	...	...	...	344	...	
	Total ...	...	2,61,088	2,65,259	6,865	2,58,394	5,786	6	Do. 97
	Total Berar Circle ...	...	19,52,987	21,93,333	52,418	21,40,915	21,473	54	
	TOTAL CENTRAL PROVINCES AND BERAR.	...	59,60,545	62,07,937	90,387	61,17,550	84,237	...	

Division or Circle,	(A) Fires caused by accident or through carelessness in burning fire-lines,		(B) Fires entering the forests by crossing exterior fire-traces,		(C) Fires beginning inside the							
					Owing to carelessness or accident,							
					By workmen employed in the forests, by purchasers of forest-produce and by Ya cutters,		By villagers, travellers, etc., passing through the forests.		By Railway engines,		By lightning or by fire-balloons,	
	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	2	3	4	5	6	7	8	9	10	11	12	13
NORTHERN CIRCLE.												
North-Mandla ...	1	35	...	...	...	...	...	...	...	...	...	...
South-Mandla ...	1	200	...	...	...	...	2	142	...	...	...	...
Jubbulpore-Narsinghpur ...	2	101	...	...	1	78 ²	1	56	...	...	...	...
Damoh ...	3	504	2	503	...	...	...	...	...	...	...	...
Saugor ...	...	...	...	...	...	...	...	...	...	...	...	...
Hoshangabad ...	6	5,572	1	20	...	...	...	...	...	...	...	...
Seoni ...	...	...	...	...	...	...	1	306	...	...	...	...
Chhindwara ...	1	2	...	...	...	...	8	2,593	1	148	...	...
Total Northern Circle ...	14	6,414	3	523	1	78 ²	12	3,097	1	148	..	..
SOUTHERN CIRCLE.												
Balaghat ...	...	...	3	1,189	...	...	2	553	...	...	...	...
Bhandara ...	1	13	9	3,395	...	...	1	8	4	166	...	...
Bilaspur ...	...	...	...	...	1	79	1	24	...	...	...	...
North-Chanda ...	3	148	1	6	...	...	...	...	...	...	1	57
South-Chanda ...	2	31	2	213	...	...	2	325	...	...	...	...
Nagpur-Wardha ...	3	432	1	708	...	...	3	578	...	...	...	...
North-Raipur ...	...	...	2	905	1	909	...	...	...	...	...	...
South-Raipur ...	4	156	...	* 60	...	...	1	19	...	...	...	...
Total Southern Circle ...	12	780	18	6,476	2	979	10	1,507	4	166	1	57
BERAR CIRCLE.												
Melghat ...	5	852	2	7	...	...	2	75	...	...	1	1
Amraoti ...	...	...	...	...	...	...	...	...	...	...	...	...
Buldana ...	...	...	...	...	...	...	...	...	...	...	...	...
Yeotmal ...	1	6	2	75	...	...	2	703	...	...	...	...
Akola ...	...	...	...	...	...	...	...	...	...	...	...	...
Nimr ...	3	430	3	27,411	...	...	3	543	4	80	...	...
Betul ...	1	1,940	...	...	4	1,325	...	...	...	...	...	...
Total Berar Circle ...	10	3,228	7	27,493	4	1,325	7	1,321	4	80	1	1
TOTAL CENTRAL PROVINCES AND BERAR.	37	10,422	28	31,492	7	3,085	29	5,925	9	394	2	58

* This is a part of one of the

Forest Fires, 1918-19.

Reserve or fire-traced area.											
By intentional firing.						Total.	Causes unknown.		Total (A), (B) and (C).		
In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.							
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.
14	15	16	17	18	19	20	21	22	23	24	25
...	...	1	1,089	...	...	1	1,089	2	430	4	1,554
...	2	142	...	...	3	342
...	2	838	2	539	6	1,478
...	15	4,469	20	5,476
...	2	120	2	120
...	4	3,580	11	9,172
...	1	506	3	339	4	645
...	9	2,741	11	733	21	3,476
...	...	1	1,089	...	...	15	5,116	39	10,210	71	22,263
1	162	...	...	...	...	3	715	4	143	10	2,047
...	1	123	6	297	7	619	23	4,324
...	2	114	4	217	7	868	11	1,085
...	1	57	1	77	6	288
...	2	325	...	...	6	569
...	3	578	2	356	9	2,054
...	1	900	7	1,458	10	3,263
...	1	19	5	1,841	10	2,076
1	162	...	...	3	27	21	3,108	33	5,342	85	15,706
...	3	76	1	126	11	1,061
...	1	25	1	25
...
...	2	703	8	415	13	1,199
...
...	7	623	10	14,804	23	43,268
...	4	1,325	1	3,600	6	6,865
...	16	2,727	21	18,970	54	52,418
1	162	1	1,089	3	237	52	10,951	93	34,522	210	90,387

Fires shown in column 22,

FORM No. 16.—Area closed and open to grazing during 1918-19.
AREA IN SQUARE MILES.

Division.	Closed to all animals.		Open to grazing.			
	Whole year.	Part of year.	Of all animals.		Of all animals except browsers (camels, sheep and goats)	
			Whole year.	Part of year.	Whole year.	Part of year.
1	2	3	4	5	6	7
	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.
NORTHERN CIRCLE.						
North Mandla	29	...	611	...	146	...
South Mandla	257	...	904	...	...	...
Jubbulpore-Narsinghpur	37	80	2	...	428	43
Damoh	79	...	713	...	...	...
Saugor	105	...	642	...	2	...
Hoshangabad	163	...	750	...	...	...
Seoni	98	...	...	...	715	...
Chhindwara	107	...	...	...	557	...
Total for the Circle	872	80	3,662	...	1,848	43
SOUTHERN CIRCLE.						
<i>A Class.</i>						
Balaghat	242	...	64	...	673	...
Bhandara	178	...	...	...	346	...
Bilaspur	76	4	...	...	461	...
North Chanda	380	...	42	...	630	...
South Chanda	180	...	24	...	746	...
Nagpur-Wardha	198	...	...	...	517	...
North Raipur	222	...	...	...	293	...
South Raipur	150	...	...	...	843	...
<i>B Class.</i>						
Bhandara	...	...	...	...	9	...
North Chanda	...	...	269	...	...	...
South Chanda	...	...	333	...	...	...
Total Southern Circle	1,676	4	732	...	4,578	4
BERAR CIRCLE.						
<i>STATE FORESTS, CLASS A.</i>						
Melghat	214	...	331	...	(a) 624	...
Amraoti	8	30	...	...	45	...
Buldana	20	20	...	...	211	...
Yeotmal	92	70	...	...	615	...
Akola	37	34	...	...	144	...
Total	371	154	331	...	1,639	...
<i>STATE FORESTS, CLASS C.</i>						
Melghat	...	...	7	...	...	...
Amraoti	...	...	139	...	...	...
Buldana	...	...	179	...	...	...
Yeotmal	...	...	395	...	...	...
Akola	...	...	107	...	...	...
Total	...	...	827	...	...	...
Total Berar Proper	371	154	1,158	...	1,639	...
<i>Class A.</i>						
Nimar	174	...	...	...	1,512	...
Betul	80	...	...	...	1,101	...
Total	254	...	...	...	2,613	...
<i>Class B-I.</i>						
Betul	...	...	8	...	...	...
Total	...	...	8	...	...	...
Total Nimar and Betul	254	...	8	...	2,613	...
Total Berar Circle	625	154	1,166	...	4,252	...
GRAND TOTAL FOR CENTRAL PROVINCES AND BERAR.	3,123	238	5,560	...	10,678	47

(a) Buffaloes also excluded under the working plan.

FORM NO. 17.

FORM NO. 17.—Return of grazing in the

Division.	Grazing on payment. Number of animals.													
	At full rates.						At privileged rates (including ordinary rates).						Fees received.	
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Fees received.		
												Actual.	Value at full rates.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
						Rs.						Rs.	Rs.	
NORTHERN CIRCLE.														
North-Mandla ...	12,133	20,916	1,586	...	178	23,339	9,255	79,434	738	...	...	14,317	49,110
South-Mandla ...	10,790	27,125	1,161	...	96	24,653	6,760	62,441	641	...	...	11,413	38,100
Jubbulpore-Narsinghpur ...	3,862	10,476	416	...	122	13,366	4,761	68,906	...	...	7	14,271	55,784
Damoh ...	18,249	23,654	12,518	...	690	36,225	11,366	1,19,191	...	...	...	26,356	85,860
Saugor ...	19,052	31,222	4,177	...	30	39,407	9,012	1,04,608	...	...	...	22,101	74,391
Hoshangabad ...	3,429	10,165	620	...	170	13,412	2,251	52,610	...	...	...	9,669	37,383
Seoni ...	14,526	37,232	14	...	28	37,944	7,767	1,13,910	...	...	...	27,032	79,655
Chhindwara ...	7,064	24,138	190	...	185	38,492	4,045	1,02,296	...	...	..	25,861	1,10,386
Total Northern Circle ...	89,105	1,84,928	20,682	...	1,469	2,26,844	55,217	7,02,695	1,379	...	7	1,51,020	5,31,668	
SOUTHERN CIRCLE.														
Balaghat ...	3,918	16,262	284	...	78	18,191	2,782	46,086	...	...	...	8,917	38,737
Bhandara ...	772	3,401	...	...	1	4,945	2,743	49,160	...	...	...	10,262	54,646
Bilaspur ...	1,031	1,882	24	...	13	2,118	2,702	16,836	...	...	3	3,946	20,003
North-Chanda ...	4,510	17,172	27,515	...	...	23,796	9,643	1,21,341	...	...	...	24,819	1,05,470
South-Chanda ...	4,853	9,561	17,009	...	...	18,215	5,899	56,916	...	...	...	12,424	56,473
Nagpur-Wardha ...	6,571	12,545	...	...	...	24,994	280	68,209	...	...	...	14,258	68,769
North-Raipur ...	2,716	7,860	80	...	...	6,666	4,054	25,739	148	...	2	5,337	16,961
South-Raipur ...	2,508	20,993	...	...	...	13,007	4,665	42,290	...	...	...	6,287	25,810
Total Southern Circle ...	26,869	89,681	44,912	...	92	1,11,932	32,768	4,26,577	148	...	5	68,850	3,86,869	

State Forests during the year 1918-19.

Grazing free. Number of Animals.

By right under Settlement.						During pleasure of Government, or otherwise than under Settlement.						Total value of fees at full rates.	Grand total of value at full rates
Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Value of fees at full rates.		
15	16	17	18	19	20	21	22	23	24	25	26	27	28
					Rs.						Rs.	Rs.	Rs.
...	2,583	...	...	...	1,292	1,292	73,741
...	2,683	...	...	...	1,341	1,341	64,094
...	4,838	26,746	...	...	...	26,062	26,062	96,212
...	63	...	...	...	39	39	1,22,124
...	1,13,798
...	214	8,011	48	...	...	5,444	5,444	56,239
...	6	696	...	...	...	441	441	1,18,040
...	1,48,884
...	5,058	40,782	48	...	...	34,619	34,619	7,93,132
NOTE.—Annual transit license ...						1,336	19,400	136	...	1,369	17,623		
Monthly do. ...						30,213	57,549	54,780	...	4,718	9,225		
...	3,913	...	...	...	2,935	2,935	59,863
...	59,591
...	50	967	...	...	...	625	625	21,746
...	104	846	2	...	...	790	790	1,30,056
...	276	3,138	41	...	2	3,445	3,445	78,133
...	4	236	...	...	...	244	244	94,007
...	199	1,679	...	...	...	1,039	1,039	24,666
...	25	1,996	...	...	...	1,023	1,023	39,840
...	658	12,775	43	...	2	10,101	10,101	5,08,902

FORM NO. 17.—Return of grazing in the

Division.	Grazing on payment.						Number of animals.						Fees received.	
	At full rates.						At privileged rates.							
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Ca-mels.	Other ani-mals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Ca-mels.	Other ani-mals.	Actual.	Value at full rates.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
BERAR CIRCLE.													Rs.	Rs.
													STATE FOREST	
Melghat	2,473	22,180	554	...	18	26,644	1,970	8,499	1,100	...	244	5,729	12,281	
Amraoti	762	17,175	...	...	...	29,206	...	1,300	...	...	...	1,056	1,382
Buldana	1,608	27,750	...	...	14	27,028	...	31,582	...	...	...	21,361	33,550
Yeotmal	6,481	88,634	...	...	...	92,376	...	47,408	...	...	...	29,863	50,372
Akola	522	24,281	...	...	...	10,601	...	33,272	...	...	...	13,152	16,636
Total A Class	11,846	1,80,020	554	...	32	1,85,855	1,970	1,22,061	1,100	...	244	71,161	1,14,227	
STATE FOREST CLASS C.													STATE FOREST	
Melghat	327	651	1,424	...	40	816	...	623	...	...	...	117	311
Amraoti	19,949	38,554	39,786	1	951	46,059	...	34,566	...	...	...	8,431	17,283
Buldana	17,169	31,063	59,381	...	210	49,326	...	37,364	...	...	...	7,006	18,682
Yeotmal	51,150	95,222	74,413	2	694	1,00,203	...	81,761	...	...	...	15,331	40,883
Akola	16,199	54,825	15,344	...	104	45,725	...	60,526	...	...	...	11,349	30,263
Total C Class	1,04,794	2,20,315	1,90,888	53	1,999	2,42,129	...	2,14,840	...	...	...	42,234	1,07,422
Total Berar	1,16,640	4,00,335	1,90,842	53	2,031	4,27,984	1,970	3,36,901	1,100	...	244	1,13,395	2,21,649	
													STATE FOREST	
Nimar	14,985	30,208	...	...	49	60,443	10,632	86,773	...	...	18	27,841	1,08,055
Betul	12,326	25,168	41	...	37	43,109	3,253	69,092	...	...	...	11,141	56,699
Total	27,311	55,376	41	...	86	1,03,552	13,885	1,55,865	...	...	18	38,982	1,64,754
Total Berar Circle	1,43,951	4,55,711	1,90,883	53	2,117	5,31,536	15,855	4,92,766	1,100	...	262	1,52,377	3,86,403	
GRAND TOTAL CENTRAL PROVINCES AND BERAR.	2,59,925	7,30,320	2,56,477	53	3,708	8,70,312	1,03,840	16,22,038	2,627	...	274	3,92,247	13,04,940	

NOTE.—The following

Transit cattle ...
 Nomadic sheep and goats ...
 Fees recovered for grazing of buffaloes
 in Ryotwari waste, Appendix I,
 paragraph 26 of Working Plan of
 Melghat Division.

Total ...

State Forests of Berar Circle during the year 1918-19.

Grazing free. Number of animals.													
By right under Settlement.						During pleasure of Government, or otherwise than under Settlement.						Total value of fees at full rates.	Grand total of value at full rates.
Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Value of fees at full rates.			Rs.	Rs.
15	16	17	18	19	20	21	22	23	24	25	26	27	28
CLASS A.												Rs.	Rs.
...	...	...	...	...	...	4	15,429	...	...	3	12,300	12,300	51,225
...	...	...	...	...	...	4	357	...	...	...	387	387	30,975
...	...	...	...	...	...	18	1,126	...	...	...	1,194	1,194	61,778
...	250	...	...	...	266	...	1,427	...	...	...	981	1,247	1,43,995
...	125	...	...	...	109	3	301	2	...	4	272	381	27,618
...	375	...	...	...	375	29	18,640	2	...	7	15,134	15,509	3,15,591
CLASS C.													
...	...	...	...	...	...	...	458	...	...	...	471	471	1,598
...	...	...	...	...	...	...	31,399	...	...	...	15,699	15,699	79,041
...	...	...	...	...	...	8	31,270	19	...	...	15,646	15,646	83,654
...	...	...	...	...	...	...	74,314	...	...	...	37,175	37,175	1,78,261
...	...	...	...	...	...	...	34,625	...	...	...	17,312	17,312	93,300
...	...	...	...	...	...	8	1,72,096	19	...	...	86,303	86,303	4,35,854
...	375	...	...	...	375	37	1,90,736	21	...	7	1,01,437	1,01,812	7,51,445
CLASS A.													
...	...	...	...	...	...	67	6,248	165	...	72	6,575	6,575	1,75,073
...	...	...	...	...	...	186	7,757	250	...	60	6,174	6,174	1,05,982
...	...	...	...	...	...	253	14,105	415	...	132	12,749	12,749	2,81,055
...	375	...	...	...	375	290	2,04,841	436	...	139	1,14,186	1,14,561	10,32,500
...	375	...	...	...	375	6,006	2,58,398	527	...	141	1,58,906	1,59,281	23,34,532

cattle are excluded :—
 No. Revenue.
 Rs.
 49,460 10,404
 3,295 1,301
 2,089 1,567

54,844 13,362

FORM NO. 18.—[PRESCRIBED.]—Artificial Reproduction during the Forest year 1918-19.

Division.	Kind of plantation.	Area in acres.				Expenditure during the year.		Total expenditure from commencement.		Revenue during the year.	Total revenue from date of creation of plantation.	Remarks.	
		On 1st July 1918.	Added during the year.	Excluded during the year.	Area on 30th June 1919.	Creation.	Up-keep.	Creation.	Up-keep.				
1	2	3	4	5	6	7	8	9	10	11	12	13	
NORTHERN CIRCLE.													
REGULAR PLANTATION.													
Damoh	Digging and sowing bamboos in certain blocks.	28	...	...	28	66	...	151	46	...	...
Saugor	Bamboo plantations maintained, watering nurseries and digging pits for plantations.	103	...	...	103	11	...	2,105	400	...	...
Seoni	Teak	362	...	...	362	...	...	230	192	1	621	*The plan taken has now cost Rs. 2,514, little of which can be recovered.
	Sandal plantation	3	...	...	3	3	...					
OTHER FORMS OF ARTIFICIAL REPRODUCTION.													
Saugor	Weeding Anjun plantation in Mohli Block.	90	90	81		
	Watering and fencing bamboo seedlings in Mundra and Jalandhar Felling Series.	1	1	17	86		
	Experimental bamboo plantings in Jalandhar Felling Series.	30	30	14		
Seoni	Thinning in existing teak plantations.	36		
	Filling up gaps in existing teak plantation.	4		
	Fencing compound of teak plantation.	16		
	Sowing seeds of bamboo	5		
Sowing seeds of <i>Cassia auriculata</i> in all the Divisions of the Circle as per detail's below.													
North-Mandla	13	...	13	57	...	57		
South Mandla	.....	...	9	...	9	31	...	31	...	...	...
Jubbulpore-Narsinghpur.	.....	...	14	...	14	211	...	211	...	...	...
Damoh	.....	...	20	...	20	150	...	150	...	...	...
Saugor	.....	...	8	...	8	37	...	37	...	...	...
Hoshangabad	.....	...	...	...	6	211	...	235	...	...	...
Seoni	.....	...	28	...	20	130	...	130	...	...	...
Chhindwara	.....	...	2	...	2	10	...	10	...	...	...
SOUTHERN CIRCLE.													
REGULAR PLANTATION.													
Balaghat	Sowings of Chirpine	10	...	...	10	...	10	100	193	...	...
	Do. Pinus Khasya	6	...	...	6	...	9	91	30	...	...
	Do. Sal	10	...	...	10	...	...	29	...	...	...
North Chanda	Sandal plantation	156	...	...	156	...	...	...	39	16	...	
South Chanda	Do.	4	...	...	4	...	40	Not known	97	...	...
	Tarwar plantation	343	320	...	663	865	34	1,917	54	...	...
South Raipur	Teak plantation	23	...	...	23	...	37	59	66	...	...
	Bamboo do.	7	...	...	7	...	63	74	166	...	...
Total regular plantation		559	320	...	879	865	103	2,271	625	16	...		
OTHER FORMS OF ARTIFICIAL REPRODUCTION.													
Bhandara	Sowings of Sandal	...	588	580	8	41	...	41	...	...	...
Nagpur-Wardha	Do.	30	...	...	20	...	10	24	10	...	...
	Do. of teak, etc., and bamboos	270	...	270	...	31	27	2,078	309	...	...
Total other forms of artificial reproduction.		290	588	850	28	72	37	2,143	317	...	...
Total Southern Circle		849	908	850	907	937	230	4,414	942	16	...		

Note.—Up-keep includes cleanings, weeding, thinnings, filling up blanks, etc. Cultural operations are defined in the memorandum appended to Circular No. 10-F., dated the 11 August 1904.

FORM NO. 18.—[PRESCRIBED.]—Artificial Reproduction during the Forest year 1918-19.—(Concl'd.)

Division.	Kind of plantation.	Area in acres.				Expenditure during the year.		Total expenditure from commencement.		Revenue during the Year.	Total revenue from date of creation of plantation.	Remarks.
		On 1st July 1918.	Added during the year.	Excluded during the year.	Area on 30th June 1919.	Creation.	Up-keep.	Creation.	Up-keep.			
1	2	3	4	5	6	7	8	9	10	11	12	13
BERAR CIRCLE.												
REGULAR.												
Meihat	Teak sowing	...	46	(a) 46	..	124	55	124	55	...	...	(a) The experiments failed hence excluded.
Akola	Bamboo plantation	184	...	...	104	64	366	1,840	6,294	444	8,092	*63 charged to A-VIII-C and 116 to A-IX-C.
	Sandal do	343	...	...	312	...	...	599	35	...	...
	Total regular plantation	445	46	46	446	188	421	2,563	6,374	444	8,092	
TAUNGYA.												
Amraoti	Babul sowings	1,460	b) 506	c) 206	1,050	...	...	...	...	...	...	(b) Area auctioned for combined cultivation for Rs. 19,799.
	Miscellaneous species	720	...	...	720	...	...	...	...	...	...	(c) Resumed as fully stocked.
Buldana	Babul sowings	(d) 2,517	109	...	2,426	...	(e) 1,238	1,742	5,514	...	...	(d) During last year 10 acres more were clear failed, hence added.
Yeotmal	Teak sowings	180	...	...	180	...	...	...	...	...	...
Akola	Babul sowings	1,927	203	...	2,150	...	...	1,425	135	...	...	(e) The amount was spent on thinning charged to A-VIII-G.
	Total Taungya	6,594	738	206	7,126	...	1,238	3,167	3,649	...	...
OTHER FORMS OF ARTIFICIAL REPRODUCTION.												
Amraoti	Babul sowings	451	...	378	73	...	...	96	36	...	...
	Mango plantation and miscellaneous species)	24	5	20	9	56	42	150	42	...	...
	Tarwar sowings	...	150	...	150	340	...	340	...	...	...
Buldana	Teak sowing	445	...	...	445	...	...	301	401	...	...
	Nim do.	2	...	...	2	...	...	31	13	...	...
	Anjan do.	...	...	...	...	...	30	111	69	...	...
	Bamboo sowing (<i>Dendra salamus strictus</i>).	...	...	...	...	...	...	220	150	...	...
	Bamboo plantation	834	...	...	834	16	98	799	2,523	...	...
	Sandal sowing	1,824	...	...	1,824	...	3	210	82	...	...
	Catalpa do.	...	...	...	...	...	...	8	2	...	...
	Tarwad	...	185	...	185	400	...	416	...	...	...
Yeotmal	Experimental sowings of bamboos	A. G. 991 25	210	...	A. G. 1,201 26	297	298	2,575	2,403	...	...
	Tarwar sowings	...	70	...	70	121	...	121	...	...	...
Akola	Various bamboo plantations	70	50	38	97	368	524	2,302	4,411	13	31	
	Sandal sowings	50	580	21	558	202	5	405	5	...	...
	Lac planting	...	...	...	...	...	...	9	...	...	...
	Teak do.	...	25	25	...	2	...	2	...	...	...
	Shisam do.	...	25	25	...	2	...	2	...	...	...
	Tarwad do.	...	261	261	...	523	...	523	...	...	...
Nimar	Garden of fruit trees and vegetables containing teak and bamboos.	1	...	...	1	...	30	111	675	...	...
	Tarwad sowings	...	430	160	270	472	...	472	...	...	267	
	Total other forms of artificial reproduction.	A. G. 4,692 26	3,009	982	A. G. 5,719 26	2,793	1,025	9,482	10,810	13	268	
	GRAND TOTAL BERAR CIRCLE	A. G. 11,732 26	2,793	1,234	A. G. 13,291 26	2,581	2,687	15,212	20,813	457	8,300	
	GRAND TOTAL CENTRAL PROVINCES AND BERAR.	A. G. 5,218 25	3,795	2,084	A. G. 14,902 26	4,835	2,917	23,085	22,569	474	9,010	

Note.—Upkeep includes cleanings, weeding, thinning, filling up blanks, etc. Cultural operations are defined in the memorandum appended to Circular No. 10.F., dated the 5th August 1904.

FORM NO. 19.—[PRESCRIBED.]—Outturn (in thousands of cubic feet, solid) of Timber and Fuel

Division.	Timber in the rough; Logs.					Timber in the rough; Poles.					Sawn or square Timber.				
	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.
NORTHERN CIRCLE.															
North-Mandla	...	215	...	...	215	68	198	13	...	279	...	...	...	...	...
South-Mandla	...	3	...	...	3	4	216	7	...	227	1	59	...	...	60
Jubbulpore-Narsinghpur	...	3	130	...	133	38	216	2	...	256	...	...	...	...	...
Damoh	14	195	4	...	213	...	...	...	...	...
Saugor	...	1	...	...	1	57	234	...	...	291	...	...	...	...	...
Hoshangabad	80	...	80	127	62	5	...	194	...	164	...	...	164
Beoni	...	16	153	5	174	12	64	2	...	79	...	...	...	...	...
Chhindwara	...	24'68	48'62	...	73'30	20'45	281'85	...	...	302'40	...	...	...	...	...
Total	44'68	637'62	5	...	687'30	341'35	1,466'85	33	...	1,841'40	1	223	...	...	224
SOUTHERN CIRCLE.															
Balghat	...	69	...	...	69	4	146	18	...	168	...	135	...	...	135
Bhandara	13	...	13	7	640	55	...	702	...	...	...	...	...
Bilaspur	...	3	68	...	70	2	171	...	...	173	...	26	...	...	26
North-Chanda	...	10	47	...	57	15	448	29	...	485	...	...	...	...	...
South-Chanda	...	329	166	1	496	40	26	27	...	553	12	...	...	...	12
Nagpur-Wardha	...	2	124	...	126	5	150	...	...	155	...	...	...	...	...
North-Raipur	...	1	73	3	77	5	242	5	...	252	...	...	...	...	...
South-Raipur	...	4	624	...	628	2	698	3	...	703	2	20	...	...	21
Total	348	1,124	4	...	1,536	80	2,581	130	...	2,791	12	191	...	...	203

Charcoal should be shown by its equivalent in fuel, the quantity in the "Remarks" column of this form it should be shown which of the figures entered in it are

during the year 1918-19 and Agency of Exploitation.

Miscellaneous.					Total Timber.					Fuel.					Total Output.	Remarks.
Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.		
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.
...	...	...	...	...	68	413	13	...	494	5	1,014	145	...	1,164	1,658	
...	2	...	...	2	6	279	7	...	292	...	956	115	...	1,081	1,373	
...	...	...	...	...	40	346	2	...	388	40	518	289	...	834	1,223	
...	...	...	...	...	14	195	6	...	213	4	251	78	...	333	546	
...	...	...	...	...	58	234	(a)	...	292	158	369	35	...	560	852	(a) 200 cft. only.
...	65	...	...	65	187	380	5	...	512	94	169	94	...	357	869	
...	14	...	...	14	29	231	7	...	267	34	548	138	...	720	987	
...	5'44	5'28	...	10'72	(b) 46'25	335'91	5'28	...	386'42	127'68	126'66	9'89	...	204'23	650'25	(b) Difference of 1,357 cft. between this figure and the total of timber in column 3 of Form No. 21 is due to neglect of fractions.
...	86'44	5'28	...	91'72	387'23	2,413'91	43'28	...	2,844'42	462'68	3,045'66	904'89	...	5,313'23	8,157'65	
...	...	...	...	...	4	350	28	...	372	42	4,080	131	...	4,453	4,625	
...	...	...	...	...	7	653	55	...	715	4	3,278	21	...	3,303	4,018	
...	...	...	...	...	4	275	...	...	279	1	188	315	...	502	781	
3	...	...	...	3	28	495	22	...	545	21	2,240	9	...	2,270	2,815	
...	...	...	...	...	380	252	28	...	660	1	1,078	122	...	2,101	2,761	
2	...	...	...	2	8	274	...	...	282	69	2,627	...	...	2,696	2,978	
...	...	...	...	...	6	315	8	...	329	20	671	117	...	808	1,157	
...	...	...	...	...	7	1,542	3	...	1,552	173	1,390	100	...	1,663	3,015	
4	...	...	...	4	444	3,956	134	...	4,534	331	16,452	813	...	17,596	22,130	

of wood consumed in producing it being entered in cubic feet solid, actuals and which are only estimates, it being also noted in the latter case how the figures have been arrived at.

FORM NO. 19.—[PRESCRIBED.]—Outturn (in Thousands of cubic feet, solid) of Timber and Fuel

Division.	Timber in the rough; Logs.					Timber in the rough; Poles.					Sawn or square Timber.				
	Government.	Purchasers.	Free-Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-Grantees.	Right-holders.	Total.
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.
BERAR.															CLASS
Meighat ...	...	...	...	...	...	86	7	...	66	159	...	133	...	...	133
Amraoti ...	...	...	...	...	...	1	...	1	...	2	...	...	...	...	...
Yeotmal ...	...	...	...	...	...	20	61	2	...	84	...	...	...	...	...
Buldana ...	...	...	...	...	...	3	7	1	...	11	...	...	...	...	...
Akola ...	...	...	...	...	...	10	91	1	...	106	...	...	...	...	...
Total ...	...	...	...	...	...	120	171	5	66	362	...	123	...	...	123
															CLASS
Amraoti ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yeotmal ...	...	...	...	...	...	...	4	5	...	9	...	...	...	...	...
Buldana ...	...	...	...	...	...	...	2	...	...	2	...	...	...	...	...
Akola ...	...	...	...	...	...	...	1	1	...	2	...	...	...	...	...
Total ...	...	...	...	...	...	...	7	6	...	13	...	...	...	...	...
Total Berar, excluding Nimar and Betul ...	...	...	...	...	...	120	178	11	66	375	...	133	...	...	133
Figures of 1917-18 ...	...	...	...	...	...	138	208	6	66	418	...	131	...	...	131
															CLASS
Nimar ...	30	147	16	...	193	...	...	...	...	...	...	...	...	...	...
Betul ...	...	...	...	...	...	29	414	1	...	444	...	...	...	...	...
Total Nimar and Betul ...	30	147	16	...	193	29	414	1	...	444	...	...	...	...	...
Figures of 1917-18 ...	34	234	19	...	287	23	532	1	...	555	...	...	...	...	...
GRAND TOTAL FOR THE CIRCLE ...	30	147	16	...	193	249	591	12	66	819	...	133	...	...	133
GRAND TOTAL FOR CENTRAL PROVINCES AND BERAR.	492'68	1,968'69	25	...	2,416'30	570'55	4,538'85	175	66	5,451'40	13	547	...	...	560

Charcoal should be shown by its equivalent in fuel, the quantity in the "Remarks" column of this form it should be shown which of figures entered in it are

during the year 1918-19 and Agency of Exploitation.—(Concl'd)

Miscellaneous.					Total Timber.					Fuel.					Total Output.	Remarks.
Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.		
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.	Thousands of Cft.
A	...	...	...	...	86	(a) 140	...	66	392	1	125	9	24	639	952	(a) Royalty-reduced by 25 per cent.
...	...	...	...	...	1	...	1	...	2	...	123	29	...	152	154	
...	...	...	...	...	20	61	2	...	84	133	244	...	7	384	468	
4	5	1	...	10	7	12	2	...	21	80	97	13	...	190	211	
...	...	...	...	...	10	95	1	...	106	79	168	2	...	249	355	
4	5	1	...	10	124	309	6	66	505	293	757	53	531	1,634	2,239	
C	...	...	...	...	...	...	...	...	...	...	26	...	...	26	26	
...	...	...	...	...	...	4	5	...	9	1	98	...	143	242	251	
...	6	8	...	14	...	8	8	...	16	...	59	26	...	35	101	
...	...	...	...	...	...	1	1	...	2	...	31	...	...	31	33	
...	6	8	...	14	...	13	14	...	27	1	214	26	143	384	411	
4	11	9	...	24	194	522	20	66	532	394	971	79	674	2,018	2,650	
4	21	1	...	28	143	361	7	66	577	149	1,279	52	682	2,162	2,739	
A	...	...	...	...	30	147	10	...	193	39	597	117	...	753	946	
9	5	3	...	17	38	419	4	...	461	6	327	279	...	622	1,083	
9	5	3	...	17	68	506	20	...	654	45	934	396	...	1,375	2,029	
4	4	7	...	15	60	770	27	...	857	58	962	603	...	1,623	2,480	
13	16	12	...	41	192	888	40	66	1,186	339	1,905	475	674	3,593	4,579	
17	102'44	17'28	...	138'72	1,023'23	7,257'91	217'28	66	8,564'42	1,132'68	22,302'66	2,192'89	674	26,302'23	34,856'65	

of wood consumed in producing it being entered in cubic feet solid. actuals and which are only estimates, it being also noted in the latter case how the figures have been arrived at.

FORM NO. 20.—[PRESCRIBED.]—Outturn of Minor Forest Produce during the Forest year 1918-19.

Description of produce.	Produce removed or utilized.										Remarks.
	By Government Agency.		By purchasers.		By free grants.		By right-holders.		Total.		
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
1	2	3	4	5	6	7	8	9	10	11	12
NORTHERN CIRCLE.											
I.—RESERVED FORESTS.											
Bamboos ... Tons	378½	2,475	9,906	51,778	241½	1,518	...	...	10,526	55,771	
Do. ... Lease	...	...	...	5,868	...	...	...	...	...	5,868	
Do. ... Commutation.	...	...	...	4,559	...	...	...	...	...	4,559	
Grazing	...	...	...	* 4,04,764	...	34,619	...	...	...	4,39,383	* Includes Rs 56 on account of compensation in a Rayatwari case.
Grass ... Tons.	4,059	10,416	3,841	7,316	1,493	4,794	...	...	13,393	28,526	
Do. ... Lease.	...	...	...	12,760	...	...	...	...	...	12,760	
Do. ... Commutation.	...	...	...	3,040	...	...	...	...	...	3,040	
Harra ... Tons.	52	143	...	...	...	...	...	...	52	143	
Do. ... Lease.	...	...	...	13,990	...	...	...	...	...	13,990	
Lac ... Tons	76½	1,00,423	...	370	...	...	...	...	77	1,00,793	
Do. ... Lease.	...	...	...	10,301	...	...	...	...	...	10,301	
Mahua and Achar Tons.	...	...	28	36	1,513	8,358	...	...	1,541	8,394	
Do. do. Lease.	...	...	...	945	...	...	...	...	...	...
Hide and horns Tons.	1	130	...	...	...	...	...	...	1	130	
Do. do. Lease.	...	...	...	6,452	...	...	...	...	...	1,452	
Other Minor Produce Tons	61	1,016	12,174	11,962	11,416½	12,930	...	...	23,681½	23,908	
Do. do. Lease.	...	...	...	11,202	...	...	...	...	...	11,202	
Do. ... Commutation.	...	...	...	1,520	...	...	...	...	...	1,520	
Mineral products Tons.	26	4	5,778½	2,304	275	109	...	...	1,075½	2,475	
Do. do. Lease.	...	...	...	1,097	...	...	...	...	...	1,097	
Khata ... Lease.	...	...	...	4,106	...	...	...	...	...	4,106	
Tikari and Babai grass Lease	...	...	...	783	...	...	...	...	...	783	
Total ...	4,607½	1,14,617	31,728	5,55,241	18,969	62,328	...	...	55,204½	9,37,176	
SOUTHERN CIRCLE.											
I.—RESERVED FORESTS.											
Harra ... Tons.	1	14	2,582	24,271	...	...	...	...	2,582	24,271	
Lac ... "	4	1,255	98	9,703	...	...	...	...	101	10,958	
Mohwa and Achar "	...	...	635 + 223	2,088	949	4,478	...	...	1,584	7,166	
Hides and horns "	279	59	427	2,414	...	...	...	...	716	2,473	
Bamboos ... Ns.	197,677	8,089	9,756,371	71,517	910,102	7,555	...	...	10,864,150	87,161	
Fodder grass... Tons.	333	1,572	8,785	5,119	664	365	...	...	9,681	7,056	
Thatching grass "	387	999	71,519	45,630	9,454	14,147	...	...	81,360	60,776	

FORM NO. 20.—[PRESCRIBED.]—Outturn of Minor Forest Produce during the Forest year 1918-19.—(Contd.)

Description of produce.	Produce removed or utilized.										Remarks.
	By Government Agency.		By purchasers.		By free grants.		By right-holders.		Total.		
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
1	2	3	4	5	6	7	8	9	10	11	12
SOUTHERN CIRCLE— (Contd.)											
I.—RESERVED FORESTS— (Contd.)											
All Divisions of the Southern Circle, Central Provinces.	Minerals ... Cft.	409	5	32,492	489	2,62,805	864	...	...	2,96,607	1,358
	Other Minor Produce Tons.	12	1,067	19,635	17,506	37,008	8,707	...	...	56,655	27,280
	Grazing animals No.	...	...	6,22,052	2,00,782	13,478	10,101	...	...	654,530	2,10,883
	Do. of trail cattle No.	...	...	64,820	9,516	...	...	...	...	64,820	9,516
	Total ...	...	13,060	...	3,99,635	...	46,217	...	...	...	4,58,912
BERAR CIRCLE.											
I.—RESERVED FORESTS.											
<i>Class 'A'—(Timber and Fuel Reserves).</i>											
All Divisions of Berar proper.	Bamboos ... No.	10,958	458	2,304,078	30,688	8,425	96	262,100	3,921	25,85,561	35,173
	Fodder grass .. Tons.	244	1,339	90,927	63,765	5,245	4,359	2,621	953	99,037	70,416
	Grazing ... No.	...	...	(a) 317,827	(a) 257,016	28,678	15,154	375	875	3,36,880	2,72,525
	Rusa grass ... { Tons	...	...	612	480	...	...	...	...	612	480
	Lease ...	...	...	...	(b) 10,504	...	...	...	...	...	10,504
	Thatching grass Tons.	45	90	72	168	37	28	...	...	154	286
	Rusa oil ... lbs.	...	...	50	75	...	...	...	...	50	75
	Lac ... Lease.	...	...	...	3,336	...	...	...	...	...	3,336
	Harra ... "	...	...	...	1,725	...	...	...	...	...	1,725
	Mineral products.. { Tons	...	...	3,864	1,106	2,012	325	...	...	5,876	1,431
	Cft.	...	...	26,335	344	247,508	154	...	...	2,74,043	498
	Animal products .. { No.	251	262	250	265	...	...	...	...	501	527
	Lbs.	1,906	2,194	712	709	...	...	...	...	2,618	1,983
	Miscellaneous products. { Tons.	251(—)2840	236	2,612	4,859	1,000	2,891	4,366	1,085	T. lbs. 8,232,— 1,840	10,071
	Lease ...	...	...	...	915	...	...	...	...	...	915
Commutation ...	...	...	...	3	...	...	...	...	...	3	
Total ...	...	3,579	...	3,76,918	...	23,987	...	6,344	...	4,09,928	
<i>Class 'C' (Pasture Reserves).</i>											
Bamboos ... No.	...	...	34,953	392	...	...	...	...	34,953	392	
Fodder grass.. Tons.	...	...	1,990	1,455	...	...	...	...	1,990	1,455	
Grazing .. No.	...	...	7,32,289	2,84,263	1,72,123	86,303	...	...	904,412	3,70,666	
Rusa grass ... Tons.	...	...	9	15	...	...	...	...	9	15	
Thatching grass Tons.	...	...	...	...	29	27	...	...	29	27	

(a) Excludes transit cattle	...	24,384	1,003	(b) Includes outstanding	...	2,779
Nomadic sheep	...	2,295	2,391			
Buffaloes	...	2,089	2,567			
			7,991			

FORM NO. 20.—[PRESCRIBED.]—*Outturn of Minor Forest Produce during the Forest year 1918-19.—(Concl'd.)*

Description of produce.	Produce removed or utilized.										Remarks.
	By Government Agency.		By purchasers.		By free grants.		By right-holders.		Total.		
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
x	2	3	4	5	6	7	8	9	10	11	12
<p>BERAR CIRCLE.— (Concl'd.)</p> <p>I.—RESERVED FORESTS.— (Concl'd.)</p> <p>Class 'C'.—(Pasture Reserved).— (Concl'd.)</p>											
All Divisions of Berar proper.— (Concl'd.)	Mineral products... { Tons. Cft.	35	7	8,095	1,684	576	58	...	...	8,704	1,740
		...	...	559,833	2,206	222,387	677	...	...	782,220	2,943
	Animal products... { No. lbs.	11	12	1	3	...	...	...	...	12	14
		...	...	98	147	...	...	...	...	98	147
Miscellaneous minor products.	Tons.	120	131	3,200	5,984	54	165	1,600	2,400	4,074	8,680
Total ..	...	...	...	306,308	...	87,230	...	2,400	...	3,86,088	
Total excluding Nimar and Betul.	...	3,729	...	6,72,326	...	111,217	...	8,744	...	7,94,016	
<p>Class 'A'.—(Nimar and Betul.)</p>											
Nimar and Berar Division.	Bamboos ... No.	6,283	202	27,98,920	40,407	86,557	705	...	...	28,91,760	41,404
	Fodder grass... Tons.	259	1,836	31,597	55,190	5,203	2,930	...	...	37,149	59,956
	Grazing ... No.	...	...	(e) 252,582	(e) 1,42,534	14,905	19,749	...	...	2,67,487	2,55,283
	Rusa grass... Lease	...	...	...	6,031	...	...	...	...	...	6,031
	Lac ... "	...	...	...	3,492	...	...	...	...	...	3,491
	Harra ... "	...	...	...	2,815	...	...	...	...	...	2,815
	Gum ... "	...	...	...	605	...	...	...	...	...	605
	Mohwa ... "	...	...	...	75	...	64	...	...	...	139
	Hides and horns... { Tons. Lease.	T. M. 0 1,966	670	...	...	...	...	...	...	T. lbs. 0 1996	670
		...	...	...	2,704	...	...	...	...	...	2,704
	Minerals ... { Tons. Lease.	...	...	207	385	...	...	...	...	207 0	385
		...	...	...	244	...	...	...	...	...	244
Miscellaneous ... { Tons. Lease.	142 0	242	1902	1,785	6,810	2,411	...	...	8854 0	4,438	
	...	...	...	4,943	...	...	...	...	...	4,943	
Kanba barks.. Tons.	...	...	286	500	...	...	...	...	286 0	500	
Commutation ...	...	...	...	1,122	...	...	...	...	...	1,122	
Total Nimar and Betul ...	...	3,040	...	3,62,832	...	18,859	...	...	...	3,84,731	
Total Berar Circle ...	...	6,769	...	9,35,158 (12,362)	...	130,076	...	8,744	...	10,80,474 (13,362)	
GRAND TOTAL CENTRAL PROVINCES AND BERAR.	4,607½	1,34,446	31,728	18,90,074 (13,362)	18,969	2,38,621	...	8,744	35,304½	22,71,835 (13,362)	

NOTE.—Figures bracketed show revenue from transit cattle, etc.

FORM NO. 21.—[PRESCRIBED.]—Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally, or otherwise disposed of, during the year 1918-19.

Name of Division.	Balance at commencement of the year in forests 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
NORTHERN CIRCLE.					
TIMBER.					
North-Mandla ...	35,003	68,154	103,157	38,997	64,160
South-Mandla ...	1,007	5,900	6,907	5,948	959
Jubbulpore-Narsinghpur ...	7,659	40,471	48,130	34,216	13,914
Damoh ...	2,220	13,696	15,916	5,114	10,802
Saugor ...	26,963	58,409	85,372	17,771	67,601
Hoshangabad ...	100,149	127,480	227,629	125,081	102,548
Seoni ...	27,123	29,247	56,370	37,879	18,491
Chhindwara ...	47,779	45,238	93,017	40,822	52,195
Total ...	247,903	388,595	536,498	305,828	330,670
FUEL.					
North-Mandla ...	675	4,965	5,640	1,315	4,325
South-Mandla ...	...	...	...	...	...
Jubbulpore-Narsinghpur ...	42,885	40,230	83,115	46,590	36,525
Damoh ...	2,820	3,735	6,555	2,400	4,155
Saugor ...	34,755	158,325	193,080	38,430	154,650
Hoshangabad ...	72,525	93,600	166,125	74,970	91,155
Seoni ...	28,200	34,212	62,412	46,566	15,846
Chhindwara ...	102,149	127,687	229,836	83,462	146,374
Total ...	284,009	462,754	746,763	293,723	453,040
MINOR FOREST PRODUCE (VALUE).					
North-Mandla ...	1	266	267	194	73
South-Mandla ...	3	131	134	133	1
Jubbulpore-Narsinghpur ...	200	762	962	872	90
Damoh ...	85	96,855	96,940	94,470	2,470
Saugor ...	138	6,734	6,872	6,734	138
Hoshangabad ...	50	142	192	144	48
Seoni ...	65	931	996	904	92
Chhindwara ...	662	8,786	9,448	1,217	8,231
Total ...	1,204	114,607	115,811	104,668	11,143

FORM NO. 21.—[PRESCRIBED.]—Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally, or otherwise disposed of, during the year 1918-19.—(Contd.)

Name of Division.	Balance at commencement of the year in forests 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
SOUTHERN CIRCLE.					
TIMBER.					
Balaghat ...	1,048	3,362	4,410	2,989	1,421
Bhandara ...	1,922	6,454	8,376	7,452	924
Bilaspur ...	...	4,159	4,159	3,871	288
North-Chanda ...	16,828	28,107	44,935	37,699	7,236
South-Chanda ...	148,169	380,272	528,441	166,797	361,644
Nagpur-Wardha ...	10,648	8,073	18,720	5,664	13,056
North-Raipur ...	40,081	6,291	46,372	21,196	25,176
South-Raipur ...	93,453	6,999	100,452	9,086	91,366
Total ...	312,149	443,716	755,865	254,754	501,111
FUEL.					
Balaghat ...	12,430	42,067	54,497	41,620	12,877
Bhandara ...	4,595	4,325	8,920	8,320	600
Bilaspur ...	...	625	625	625	...
North-Chanda ...	4,398	21,090	25,488	17,008	8,480
South-Chanda ...	120	360	480	480	...
Nagpur-Wardha ...	14,080	69,160	83,240	68,342	14,898
North-Raipur ...	12,356	19,637	31,993	14,672	17,321
South-Raipur ...	...	173,336	173,336	13,568	159,768
Total ...	47,979	330,600	378,579	164,635	213,944
MINOR FOREST PRODUCE (VALUE).					
	Rs.	Rs.	Rs.	Rs.	Rs.
Balaghat ...	179	867	1,046	966	80
Bhandara ...	107	512	619	467	152
Bilaspur ...	513	1,173	1,686	1,354	332
North-Chanda ...	640	7,816	8,456	8,261	195
South-Chanda ...	114	1,290	1,404	317	1,087
Nagpur-Wardha ...	111	713	824	797	27
North-Raipur ...	115	135	250	147	103
South-Raipur ...	7,462	554	8,016	7,436	580
Total ...	9,241	13,060	22,301	19,745	2,556

* NOTE.—The opening balances of Rs. 165 and 9,262 (closing balances of last year) have been reduced to Rs. 107 and 7,462 respectively, owing to the fall in the estimated price.

FORM NO. 21.—[PRESCRIBED.]—Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally, or otherwise disposed of, during the year 1918-19.—(Concl'd.)

Name of Division.	Balance at commencement of the year in forests 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
BERAR CIRCLE.					
TIMBER.					
Melghat ...	9,958	86,491	96,449	88,811	7,638
Amraoti ...	440	820	1,260	520	740
Buldana ...	2,634	7,043	9,677	7,636	2,041
Yeotmal ...	35,880	12,014	47,894	22,026	25,868
Akola ...	5,275	10,649	15,924	15,324	600
Nimar ...	25,102	29,874	54,976	32,231	22,745
Betul ...	27,394	37,929	65,323	32,248	33,075
Total ...	106,683	184,820	291,503	198,796	92,707
FUEL.					
Melghat ...	...	1,200	1,200	1,200	...
Amraoti ...	635	40	675	675	...
Buldana ...	32,956	79,920	112,876	53,606	59,270
Yeotmal ...	147,152	98,764	245,916	140,100	105,816
Akola ...	20,900	78,875	99,775	76,525	23,250
Nimar ...	41,860	38,927	80,787	51,587	29,200
Betul ...	10,292	5,756	16,048	13,798	2,250
Total ...	249,795	303,482	553,277	337,491	215,786
MINOR FOREST PRODUCE (VALUE).					
Melghat ...	Rs. 1,818	Rs. 2,531	Rs. 4,349	Rs. 1,340	Rs. 3,009
Amraoti ...	148	262	410	145	265
Buldana ...	241	205	446	376	70
Yeotmal ...	82	377	459	344	115
Akola ...	184	402	586	371	15
Nimar ...	775	928	1,703	1,269	434
Betul ...	914	1,771	2,685	1,529	1,156
Total ...	4,162	6,476	10,638	5,574	5,064
GRAND TOTAL FOR CENTRAL PROVINCES AND BERAR ...	12,63,125	18,48,110	35,11,235	16,85,214	18,26,123

FORM NO. 22.—[PRESCRIBED.]—Abstract showing the Value of Timber and other Produce at sale Depôts for the year 1918-19.

Description of Timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
	No.	C. ft.	Value.	No.	C. ft.	Value.	In favour of the year.	Against.	
1	2	3	4	5	6	7	8	9	10
NORTHERN CIRCLE.			Rs.			Rs.	Rs.	Rs.	
Timber	...	247,903	16,761	...	330,670	19,712	2,951	...	
Fuel	...	284,009	10,462	...	453,040	14,863	4,401	...	
Minor produce	1,204	...	...	11,143	9,939	...	
Total	28,427	...	...	45,718	17,291	...	
SOUTHERN CIRCLE.									
Timber	...	19,955	17,862	...	58,429	81,598	63,736	...	
Fuel	...	4,645	162	...	90,989	7,648	7,486	...	
Minor Produce	6,770*	...	...	42	...	6,728	
Total	24,794	...	...	89,288	64,494	...	
BERAR CIRCLE.				Nil.					
GRAND TOTAL FOR CENTRAL PROVINCES AND BERAR.			...	53,221	...	1,35,006	81,785	...	

*NOTE.—The opening balance of Rs. 8,070 (closing balance of last year) has been reduced to Rs. 6,770 owing to the fall in the estimated price of Harra.

FORM NO. 23.—[PRESCRIBED].—Abstract showing the Value of Live and Dead-stock for the year 1918-19.

Description of live and dead-stock.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.		Remarks.
	No.	Value.	No.	Value.	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8
NORTHERN CIRCLE.							
Elephant	6	5,987	5	4,711	...	1,276	* One elephant transferred to S. Chanda Division during the year. Note.—Also one elephant, Gohar Kali, was received during the year from Southern Circle and died and was therefore written off, vide C. L. F. 1193 Dt. 213 Dt. 6-6-1919.
Other live-stock	4	133	4	125	...	8	
Dead-stock	...	2,64,448	...	3,65,143	1,00,695	...	
Total Northern Circle	...	2,70,568	...	3,69,979	99,411	...	Includes price of hay presses purchased during the year for Military grass operation works.
SOUTHERN CIRCLE.							
Elephants	9	19,900	8	18,300	...	1,600	
Other live-stock	12	555	11	535	...	20	
Dead stock	...	270,051	...	269,483	...	568	
Total Southern Circle	...	290,506	...	288,318	...	2,188	
BERAR CIRCLE.							
LIVE-STOCK.							
Elephants	5	6,135	5	7,850	1,715	...	
Bullocks	10	426	9	357	...	69	* In Conservator's letter No. C-355-27-B, dated 20th March 1919, sanction was accorded to the sale of one unserviceable bullock and to the purchase of a new one for Rs. 60 in Nimar Division.
Total	15	6,561	14	8,207	1,715	69	
DEAD STOCK.							
Buildings	...	217,902	...	208,953	...	8,339	
Mathematical and other drawing instruments	...	3,955	...	3,094	39	...	
Tools	...	6,136	...	5,995	...	141	
Furniture	...	14,892	...	14,611	...	282	
Tents	...	7,300	...	6,542	...	358	
Miscellaneous	...	17,682	...	14,113	...	3,569	
Total	...	266,358	...	253,208	39	35,089	
Total Berar Circle	...	272,919	...	261,515	1,754	13,158	Net difference against the year Rs. 17,404.
GRAND TOTAL CENTRAL PROVINCES AND BERAR	...	8,33,993	...	9,19,819	85,819	...	

FORM NO. 24.—[PRESCRIBED].—Summary of Revenue and Expenditure

Budget Heads.	Direction Division.	Damoh Division.	Hoshangabad Division.	Jubbulpore-Narsinghpur Division.
1	2	3	4	5
NORTHERN CIRCLE.				
REVENUE.				
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—				
a. Timber	63	7,650	7,584
b. Firewood and charcoal	153	2,685	665
c. Bamboos	2	3	1
d. Sandal-wood
e. Grass and other minor produce	77,291	140	3,820
Total I	77,509	10,509	12,070
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FOREST BY CONSUMERS OR PURCHASERS—				
a. Timber	19,522	94,143	13,860
b. Firewood and charcoal	10,771	19,564	35,857
c. Bamboos	1,925	21,950	5,918
d. Grazing and fodder grass	69,550	24,534	29,458
e. Other minor produce	7,165	5,142	7,444
f. Other items
g. Commutation	182	757	499
Total II	1,09,445	1,66,420	93,076
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE.				
Total III	2	167	69
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—				
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total IV
V.—MISCELLANEOUS—				
a. Fines and forfeitures	m	460	...	88
b. Refunds	76	52	23
c. Other sources	1,700	3,728	4,092	5,624
Total V	1,715	4,264	4,144	5,740
GRAND TOTAL REVENUE	1,715	1,91,220	1,51,241	1,10,955
EXPENDITURE.				
A.—Conservancy and Works.				
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—				
a. Timber
b. Firewood and charcoal	7	116	4,573
c. Bamboos	3
d. Sandal-wood
e. Grass and other minor produce	2	15,336	97	2,754
Total A-I	2	15,343	213	7,330
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.				
Total A-II	5,226	6,954	3,763
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE.				
Total A-III	5,226	6,954	3,763
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—				
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total A-IV
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT.				
Total A-V

of the different Divisions during the Forest year 1918-19.

North-Mandla Division.	Seoni Division.	Sironcha Division.	South-Mandla Division.	Chhindwara Division.	Total.
6	7	8	9	10	11
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
818	4,410	20	3,024	2,301	25,900
39	562	...	800	1,169	6,074
...	15	...	351	1	378
...	1	...	...	...	1
113	1,153	8	6,384	1,180	90,089
970	6,144	30	10,559	4,651	12,244
10,188	56,895	16,910	17,373	43,369	2,72,560
3,147	20,315	202	9,431	4,072	1,03,389
6,205	7,099	3,324	3,394	7,570	57,676
43,987	69,276	43,622	75,240	68,833	4,24,840
10,231	11,551	7,537	5,139	5,797	63,606
...
14,790	117	13,436	516	69	30,396
55,548	1,65,544	85,331	1,14,093	1,30,010	9,52,467
...	...	13	...	219	470
...	...	13	...	219	470
...
...
...
25	40	...	...	217	830
147	405	132	15	129	1,062
5,036	2,949	5,565	4,779	6,050	39,523
5,208	3,457	5,697	4,794	6,396	41,415
44,726	1,75,145	91,071	1,20,446	1,41,276	1,116,794
...
176	4	2	389	...	5,015
...	...	...	12	...	15
...	1	...	106	...	107
141	115	4	3,846	433	23,728
65	120	6	4,353	433	27,865
5,190	10,507	4,992	5,190	7,181	49,003
5,190	10,507	4,992	5,190	7,181	49,003
...	...	1	...	...	1
...	...	1	...	...	1
...
...
...
...
...
...

FORM NO. 24.—[PRESCRIBED].—Summary of Revenue and Expenditure of the

Budget heads.	Direction Division.	Damoh Division.	Hoshangabad Division.	Jubbulpore-Narsinghpur Division.
1	2	3	4	5
NORTHERN CIRCLE.—(Concl'd.)				
EXPENDITURE.—(Concl'd.)				
A.—Conservancy and Works.—(Concl'd.)				
VI.—LIVE-STOCK, STORES, TOOLS AND PLANT—				
a. Purchase of cattle ...	...	...	...	...
b. Feed and keep of cattle ...	1,034	1,288	1,132	282
c. Purchase of stores, tools and plant ...	1,025	544	767	1,854
Total A-VI ...	2,059	1,832	1,899	2,136
VII.—COMMUNICATIONS AND BUILDINGS—				
a. Roads and bridges ...	...	4,435	8,870	6,259
b. Buildings ...	...	5,891	2,834	2,775
c. Other works ...	...	855	2,452	665
Total A-VII ...	...	11,181	14,156	9,729
VIII.—ORGANIZATION, IMPROVEMENT AND EXTENSION OF FORESTS—				
a. Demarcation ...	...	614	681	782
b. Cost of Forest settlements, compensation for land and rights.	...	...	...	...
c. Surveys ...	...	...	...	...
d. Working-plans ...	...	...	...	...
e. Sowing and planting ...	22	378	424	211
f. Protection from fire ...	...	3,727	5,501	3,433
g. Other works ...	...	344	6,097	1,203
Total A-VIII ...	22	5,063	12,703	5,689
IX.—MISCELLANEOUS—				
a. Law charges ...	...	23	—19	...
b. Grain compensation allowance ...	17	31	320	...
c. Other charges ...	62	1,549	631	255
d. War allowance ...	14	25	55	...
Total A-IX ...	93	1,628	1,017	255
TOTAL A.—CONSERVANCY AND WORKS				
	2,176	40,273	3,644	5,905
B.—Establishments.				
I.—SALARIES—				
a. Conservators...	22,600	...	...	...
b. Superior officers ...	...	4,936	16,707	11,133
c. Subordinate forest and depôt establishments ...	192	21,493	19,652	21,607
d. Office establishments ...	11,065	5,922	5,621	7,024
e. Deputation and special allowances ...	1,362	...	88	...
f. Exchange compensation allowance ...	3,50,466	3,074	1,425	2,500
Total B-I ...	36,035	38,769	47,493	45,364
II.—TRAVELLING ALLOWANCES—				
a. Conservators ...	3,017	...	...	...
b. Superior officers ...	...	1,497	3,412	1,682
c. Subordinate forest and depôt establishments ...	1	2,674	3,616	4,102
d. Office establishments ...	602	374	454	397
Total B-II ...	3,620	4,545	7,472	6,151
III.—CONTINGENCIES—				
a. Stationery ...	42	437	45	21
b. Carriage of tents and records ...	877	975	1,342	1,011
c. Rents, rates and taxes ...	22	21	90	48
d. Pay of police guards ...	...	...	...	...
e. Official postage ...	1,503	549	1,077	495
f. Sundries ...	3,141	1,009	1,485	1,117
Total B-III ...	5,555	2,991	4,042	2,692
TOTAL B.—ESTABLISHMENTS				
	46,240	46,325	59,007	54,237
GRAND TOTAL OF EXPENDITURE				
	47,416	86,575	95,949	53,142
SURPLUS OR DEFICIT				
	48,701	1,04,642	85,291	27,513

different Divisions during the Forest year 1918-19.—(Contd.)

North-Mandla Division.	Seoni Division.	South-Mandla Division.	Saugor Division.	Chhindwara Division.	Total.
6	7	8	9	10	11
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
...
460	1,205	683	...	1,005	5,620
...	1,433	...	611	756	7,867
450	2,638	1,100	611	1,761	14,496
656	11,495	2,720	3,149	2,224	39,838
2,251	2,022	3,189	3,013	3,060	25,935
149	333	400	1,035	777	6,666
3,056	15,850	6,309	7,197	6,961	72,439
977	1,181	1,314	745	542	6,839
...	3	...	...	...	3
57	382	31	205	10	1,723
860	4,681	4,750	1,961	2,134	27,077
560	1,649	111	4,242	2,511	16,777
2,454	7,596	6,236	7,159	5,197	52,419
...	1	...	50	1	56
...	145	162	21	163	859
48	352	246	2,292	114	5,552
...	111	202	2	176	641
48	609	610	2,391	454	7,108
11,273	35,620	19,254	26,901	21,987	2,23,331
...	...	...	...	...	22,660
5,800	8,000	5,156	11,949	9,023	72,737
16,328	21,606	17,895	24,402	1,572	1,64,747
4,735	6,069	5,695	5,906	5,967	58,031
710	302	...	...	95	2,557
2,455	3,075	2,510	2,369	2,989	24,925
32,015	41,524	33,707	65,342	42,328	3,66,360
...	...	...	...	...	3,017
1,143	1,439	1,404	2,303	1,758	14,628
1,902	4,079	2,660	3,533	4,406	26,973
197	754	192	408	605	4,013
3,242	6,502	4,256	6,244	6,769	48,631
86	29	27	20	12	672
671	1,542	999	870	675	8,962
125	108	137	108	215	874
...	...	...	...	...	6,934
450	1,034	554	492	750	13,346
600	2,436	943	1,365	1,157	...
1,972	5,149	2,660	2,855	2,839	30,788
37,232	53,255	40,623	57,944	51,936	4,45,779
49,505	55,575	59,877	84,845	73,923	6,69,110.
46,221	56,270	31,194	44,601	67,353	4,93,385

FORM NO. 24.—[PRESCRIBED.]—Summary of Revenue and Expenditure

Budget heads.	Direction Division.	Balaghat Division.	Balaghat School Division.	Bhandara Division.
1	2	3	4	5
SOUTHERN CIRCLE.				
REVENUE.				
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—				
a. Timber	207	...	461
b. Firewood and charcoal	740	...	58
c. Bamboos	21	...	5
d. Sandal-wood
e. Grass and other minor produce	150	...	439
Total I	1,118	...	963
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—				
a. Timber	97,563	...	50,824
b. Firewood and charcoal	15,086	...	29,691
c. Bamboos	19,469	...	9,495
d. Grazing and fodder grass	27,733	...	15,291
e. Other minor produce	35,422	...	14,642
f. Other items
g. Commutation fees	3,139	...	...
Total II	1,98,412	...	1,19,943
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE—				
Total III
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—				
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total IV
V.—MISCELLANEOUS—				
a. Fines and forfeitures	60	...	55
b. Refunds	351	28	85
c. Other sources
Total V	3,921	13,145	194	5,018
GRAND TOTAL REVENUE	3,921	2,13,086	222	1,26,064
EXPENDITURE.				
<i>A.—Conservancy and Works.</i>				
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—				
a. Timber	369	...	...
b. Firewood and charcoal	54	...	...
c. Bamboos
d. Sandal-wood
e. Grass and other minor produce	122	...	279
Total A-I	545	...	279
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FOREST BY CONSUMERS OR PURCHASERS—				
Total A-II	8,647	24	4,814
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE.				
Total A-III	8,647	24	4,814
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—				
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total A-IV	5

of the different Divisions during the Forest year 1918-19.—(Contd.)

Bilaspur Division.	North-Chanda Division.	South-Chanda Division.	Nagpur-Wardha Division.	North-Raipur Division.	South-Raipur Division.	Grand Total.
6	7	8	9	10	11	12
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
167	1,271	84,952	422	9,608	2,591	99,679
12	399	...	418	128	1,773	3,528
...	4,547	...	103	...	...	4,676
...	16	...	...	...	...	16
1,011	1,055	52	413	1,702	7,014	11,836
1,190	7,288	85,004	1,356	11,438	11,378	1,19,735
30,328	43,906	60,232	14,720	11,040	19,759	3,28,372
14,522	31,647	2,469	13,476	6,913	17,126	1,30,930
5,605	19,626	4,977	6,176	4,413	671	70,432
6,132	49,063	36,876	43,516	12,099	23,803	2,15,413
7,194	12,227	4,303	8,194	19,366	18,165	1,09,513
...
...	...	2,337	...	261	1,363	7,100
63,781	1,57,369	1,11,194	86,082	44,092	80,887	8,61,760
77	14	8	...	136	...	235
77	14	8	...	136	...	235
...
...
...
...	250	...	117	...	101	583
...	1,734	31	9	2	391	2,631
2,006	8,753	2,943	7,875	2,712	3,424	49,991
2,006	10,737	2,974	8,001	2,714	3,916	53,205
67,054	1,75,408	1,99,180	95,439	58,380	96,181	10,34,935
135	21	37,449	298	218	479	38,069
...	9	...	94	...	11,521	11,678
...	2,830	...	9	...	...	2,839
...
...	251	26	304	158	363	1,503
135	3,111	37,475	705	376	12,363	54,989
2,936	7,663	50,029	6,183	3,494	5,094	43,884
2,936	7,663	5,029	6,183	3,494	5,094	43,884
...	...	80	...	...	...	85
...	...	80	...	...	...	85
...
...
...

FORM NO. 24.—[PRESCRIBED.]—Summary of Revenue and Expenditure of the

Budget Heads.	Direction Division.	Balaghat Division.	Balaghat School Division.	Bhandara Division.
1	2	3	4	5
SOUTHERN CIRCLE—(Concl'd).				
EXPENDITURE.—(Concl'd.)				
A.—CONSERVANCY AND WORKS.—(Concl'd.)				
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT.				
Total A-V	...	...	...	...
VI.—LIVE-STOCK, STORES, TOOLS AND PLANT—				
a. Purchase of cattle	...	...	...	...
b. Feed and keep of cattle	151	2,263	207	840
c. Purchase of stores, tools and plant	21	328	7	148
Total A-VI	172	2,591	214	988
VII.—COMMUNICATIONS AND BUILDINGS—				
a. Roads and bridges	...	4,731	497	537
b. Buildings	...	4,941	...	1,913
c. Other Works	...	795	371	143
Total A-VII	...	10,467	868	2,593
VIII.—ORGANIZATION, IMPROVEMENT AND EXTENSION OF FORESTS—				
a. Demarcation	...	967	...	189
b. Cost of Forest Settlements, compensation for land and rights	...	...	...	...
c. Surveys	...	...	...	...
d. Working-plans	...	135	...	...
e. Sowing and planting	...	200	271	74
f. Protection from fire	190	7,344	...	2,742
g. Other works	...	1,535	1	318
Total A-VIII	190	10,181	272	3,323
IX.—MISCELLANEOUS—				
a. Grain compensation allowance	...	214	33	187
b. Law charges	37	...	...	...
c. Other charges	6	748	68	279
d. War allowance	36	243	29	189
Total A-IX	79	1,205	130	655
TOTAL A.—CONSERVANCY AND WORKS				
	441	33,636	1,508	12,657
B.—Establishments.				
I.—SALARIES—				
a. Conservators	22,800	...	...	...
b. Superior officers	399	19,932	5,671	6,487
c. Subordinate forest and depôt establishments	26	23,644	1,921	16,209
d. Office establishments	10,976	7,661	615	5,613
e. Deputation and special allowances	1,278	88	2,195	193
f. Grain compensation allowance	193	2,972	158	2,246
g. War allowance	350	3,024	73	2,018
Total B-I	36,022	57,321	10,633	32,766
II.—TRAVELLING ALLOWANCES—				
a. Conservators	2,539	...	...	...
b. Superior officers	...	1,613	156	1,739
c. Subordinate forest and depôt establishments	53	3,274	124	3,426
d. Office establishments	640	749	83	777
Total B-II	3,232	5,636	313	5,942
III.—CONTINGENCIES—				
a. Stationery	20	32	6	30
b. Carriage of tents and records	962	1,511	...	1,161
c. Rents, rates and taxes	297	35	75	18
d. Pay of police guards	...	...	...	...
e. Official postage	834	960	...	476
f. Sundries	952	1,951	855	1,113
Total B-III	3,065	4,489	936	2,798
TOTAL B.—ESTABLISHMENTS				
	42,319	67,446	11,882	41,506
GRAND TOTAL OF EXPENDITURE				
	42,760	1,01,082	13,390	54,163
SURPLUS OR DEFICIT				
	-38,839	1,12,004	-13,168	71,901

different Divisions during the Forest year 1918-19.—(Contd.)

Bilaspur Division.	North-Chanda Division.	South-Chanda Division.	Nagpur-Wardha Division.	North-Raipur Division.	South-Raipur Division.	Grand Total.
6	7	8	9	10	11	12
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
...
...
775 304	30 1,320 100	2,387 556	200	159 2,615	341 1,645	30 8,443 5,924
1,079	1,450	2,943	200	2,774	1,986	14,397
8,261 1,033 707	2,351 2,260 643	8,499 3,944 844	7,087 2,237 1,221	9,455 1,586 3,905	9,976 5,677 6,628	51,394 23,591 15,257
10,001	5,254	13,287	10,545	14,946	22,281	90,242
327	765	768	819	221	282	4,338
...	...	...	...	...	788	788
...	...	...	...	16	...	16
187 3,850 384	906 6,593 856	1,935 4,442 8,509	9 68 4,524 948	14 2,863 312	160 4,541 487	144 4,005 36,899 13,350
4,748	9,120	15,654	6,368	3,426	6,258	59,540
183	121	500	265	157	94	1,791
...	...	...	100	35	...	135
129 105	603 99	566 373	512 209	387 167	527 125	3,825 1,575
417	823	1,439	1,086	746	746	7,326
19,316	27,421	75,907	25,087	25,762	48,728	2,70,463
...	...	...	...	...	...	22,800
4,780 7,967 4,741	19,551 29,047 8,544	11,681 15,129 7,412	10,272 23,976 8,061	10,028 10,833 4,994	5,108 18,747 7,618	93,909 1,47,499 66,235
...	1,161	684	...	...	561	6,160
1,301 1,039	4,392 3,792	2,576 2,242	3,038 2,765	1,230 1,775	1,825 2,626	19,931 19,704
19,828	66,487	39,724	48,112	28,860	36,485	3,76,238
...	...	...	...	...	...	2,539
1,113 1,332 540	2,510 4,327 1,055	1,760 2,539 613	2,140 3,930 557	1,267 1,597 478	1,097 2,637 673	13,335 23,239 6,115
2,985	7,892	4,913	6,627	3,282	4,407	45,228
17 1,038 116	45 2,048 62	36 1,243 103	27 1,930 166	56 1,114 41	16 2,032 42	285 13,089 955
...	...	...	...	...	...	6,785
233 1,197	1,051 1,439	1,179 3,224	975 2,837	431 1,963	646 1,914	17,435
2,591	4,645	5,785	5,985	3,605	5,650	38,549
25,404	79,024	50,421	60,724	35,747	45,542	4,60,015
44,720	1,06,445	1,26,328	85,811	61,509	94,270	7,30,478
22,334	68,963	72,852	9,628	-3,129	1,911	3,04,457

FORM NO. 24.—[PRESCRIBED.]—Summary of Revenue and Expenditure of the

Budget Heads.	Direction Division.	Detul Division.	Baldana Division.
1	2	3	4
BERAR CIRCLE.			
REVENUE.			
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—			
a. Timber	...	4,609	1,457
b. Firewood and charcoal	2,427
c. Bamboos	...	15	26
d. Sandal-wood
e. Grass and other minor produce	...	1,756	179
Total I	...	6,380	4,089
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—			
a. Timber	...	91,171	6,020
b. Firewood and charcoal	...	4,810	12,355
c. Bamboos	...	31,677	4,381
d. Grazing and fodder grass	...	58,679	1,12,762
e. Other minor produce	...	13,135	4,420
f. Forest stamps
g. Commutation fees	...	474	...
Total II	...	1,99,946	1,39,938
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE			
Total III	...	27	...
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—			
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forest
Total IV
V.—MISCELLANEOUS—			
a. Fines and forfeitures	...	156	68
b. Refunds	...	17	1
c. Other sources	1,494	3,772	7,949
Total V	1,494	3,945	8,018
GRAND TOTAL	1,494	2,10,298	1,52,045
EXPENDITURE.			
<i>A—Conservancy and works.</i>			
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—			
a. Timber	...	154	316
b. Firewood and charcoal	826
c. Bamboos
d. Sandal-wood
e. Grass and other minor produce	...	499	13
Total A-I	...	653	1,155
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.			
Total A-II	...	9,123	2,761
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE			
Total A-III	...	9,123	2,761
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—			
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total A-IV
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT.			
Total A-V

different Divisions during the Forest year 1918-19.—(Contd.)

Nimar Division.	Akola Division.	Amraoti, Division.	Melghat Division.	Yeotmal Division.	Total.	Grand Total Central Provinces and Berar.
5	6	7	8	9	10	11
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
3,473	739	...	2,065	4,443	16,786	1,42,365
797	1,899	8	248	9,060	14,439	24,041
277	355	...	15	3	691	5,745
...	...	...	...	...	...	17
992	32	36	1,103	341	4,439	1,06,364
5,539	3,025	44	3,431	13,847	36,355	2,78,532
57,749	6,175	10	39,041	25,315	2,25,481	8,26,413
20,514	11,837	5,126	3,991	13,703	72,336	3,06,655
8,730	111	...	24,339	2,249	71,487	1,99,595
1,48,446	1,16,006	1,00,104	44,791	2,46,897	8,17,685	14,57,938
9,944	2,831	6,469	14,733	3,912	55,514	2,28,563
...
648	3	...	...	...	1,125	38,621
2,46,031	1,26,963	1,11,709	1,26,895	2,92,076	12,43,558	30,57,785
168	...	...	...	28	223	928
168	...	...	...	28	223	928
...
...	...	...	3,981	...	3,981	3,981
...	...	...	398	...	3,981	3,981
456	600	1	...	488	1,778	3,191
8	106	245	10	19	406	4,099
10,771	4,598	9,108	2,780	32,359	72,831	1,62,345
11,235	5,313	9,354	2,790	32,866	75,015	1,69,635
2,62,973	1,35,301	1,21,107	1,37,097	3,38,817	13,59,132	35,10,861
535	...	...	173	...	1,178	45,162
...	...	...	150	...	976	12,669
...	147	...	7	...	154	3,100
...
105	-77	111	1,373	167	2,191	26,422
640	70	111	1,703	167	4,499	87,353
14,528	7,275	4,996	2,853	11,525	53,061	1,45,948
14,528	7,275	4,996	2,853	11,525	53,061	1,45,948
2	...	...	...	...	2	88
2	...	...	...	...	2	88
...
...
...
...
...

FORM NO. 24.—[PRESCRIBED.]—Summary of Revenue and Expenditure of the

Budget Heads.	Direction Division.	Betul Division.	Buldana Division.
1	2	3	4
	Rs.	Rs.	Rs.
BERAR CIRCLE.—(Concl'd.)			
EXPENDITURE.—(Concl'd.)			
A.—Conservancy and Works.—(Concl'd.)			
VI.—LIVE-STOCK, STORES, TOOLS AND PLANT—			
a. Purchase of cattle	...	...	...
b. Feed and keep of cattle	...	...	...
c. Purchase of stores, tools and plant	814 49	1,516 191	...
Total A-VI	863	1,707	11
VII.—COMMUNICATIONS AND BUILDINGS—			
a. Roads and bridges	...	3,269	1,707
b. Buildings	...	1,923	1,471
c. Other Works	...	3,788	376
Total A-VII	...	8,980	3,554
VIII.—ORGANIZATION, IMPROVEMENT AND EXTENSION OF FOREST—			
a. Demarcation	...	462	733
b. Compensation for land and rights	...	42	1,562
c. Surveys	...	...	...
d. Working-plans	...	...	...
e. Sowing and planting	...	48	550
f. Protection from fire	...	5,786	97
g. Other works	...	422	2,407
Total A-VIII	...	6,760	5,349
IX.—MISCELLANEOUS—			
a. Law charges	...	107	...
b. Grain compensation allowance	...	17	...
War allowance	10	15	...
c. Other charges	25	126	311
Total A-IX	43	265	311
TOTAL A.—CONSERVANCY AND WORKS			
	906	27,488	13,141
B.—Establishments.			
I.—SALARIES—			
a. Conservators	17,017	...	10,611
b. Superior officers	...	11,311	13,875
c. Subordinate forest and depôt establishments	84	24,332	5,533
d. Office establishments	8,820	7,646	...
e. Deputation and special allowances	1,385	...	1,766
f. Grain compensation allowance	152	3,726	1,670
War allowance	275	3,252	...
Total B-I	27,733	50,267	33,455
II.—TRAVELLING ALLOWANCES—			
a. Conservators	1,526	...	885
b. Superior officers	200	1,383	1,908
c. Subordinate forest and depôt establishments	...	4,801	482
d. Office establishments	640	486	...
Total B-II	2,366	6,670	3,275
III.—CONTINGENCIES—			
a. Stationery	107	116	29
b. Carriage of tents and records	...	1,612	605
c. Rents, rates and taxes	286	84	476
d. Pay of police guards	...	...	...
e. Official postage	805	695	680
f. Sundries	1,520	1,396	760
Total B-III	2,718	3,903	2,550
TOTAL B.—ESTABLISHMENTS			
	32,817	60,840	39,280
GRAND TOTAL OF EXPENDITURE			
	33,723	88,328	52,421
SURPLUS OR DEFICIT			
	-32,228	+1,21,970	+99,623

different Divisions during the Forest year 1918-19.—(Concl'd.)

Nimar Division.	Akola Division.	Amraoti Division.	Melghat Division.	Yeotmal Division.	Total.	Grand Total Central Provinces and Berar.
5	6	7	8	9	10	11
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
...	...	...	...	...	...	50
1,554	...	...	3,252	1,088	8,224	23,296
290	117	755	228	275	1,916	15,707
1,844	77	755	3,480	1,363	10,140	39,033
3,340	484	14,406	10,047	1,674	34,927	1,26,159
2,931	431	1,916	6,491	815	15,978	65,504
3,506	771	753	1,039	980	11,213	33,136
9,777	1,686	17,075	17,577	3,469	62,118	2,24,799
697	835	...	361	202	3,290	14,467
...	...	...	12,434	...	14,038	14,826
...	462	1,213	...	1,066	2,741	2,757
...	...	...	...	...	...	147
515	2,104	550	—20	713	4,460	10,188
8,308	48	98	7,097	57	21,491	85,467
1,565	2,188	...	4,626	4,239	15,447	45,574
11,085	5,637	1,861	24,498	6,277	61,467	1,73,425
128	...	...	1	...	236	2,083
191	53	395	231	107	1,002	1,996
145	47	290	159	85	751	10,128
481	861	1,194	767	117	3,882	6,098
945	961	1,879	1,158	309	5,871	20,305
38,821	15,746	26,677	51,269	23,110	1,97,158	6,90,952
...	...	...	116	...	17,133	62,533
20,186	7,118	12,900	11,214	10,433	83,773	2,50,416
32,785	9,155	11,328	26,679	32,455	1,50,663	4,62,939
9,152	5,860	5,253	8,098	7,403	57,825	1,82,091
...	394	248	6,587	3,749	12,363	21,080
5,273	1,499	1,694	3,015	4,850	21,975	66,831
4,268	1,525	1,451	2,858	3,308	18,607	59,077
71,664	25,551	32,874	58,567	62,258	3,62,369	11,04,967
...	...	...	70	...	1,596	7,152
1,701	1,074	1,446	1,345	723	8,757	36,720
5,884	1,776	2,333	4,375	3,624	24,701	74,913
810	594	496	877	356	4,741	14,869
8,395	3,444	4,275	6,667	4,703	39,795	1,33,654
624	111	16	84	21	1,103	2,065
1,792	1,145	929	1,765	1,725	9,859	31,910
95	164	185	151	140	1,295	3,124
...
1,033	657	645	322	881	5,718	19,437
1,743	1,240	1,226	938	1,744	10,567	41,348
5,287	3,317	3,001	3,250	4,511	28,547	97,884
85,346	32,312	40,150	63,494	71,472	4,30,711	13,36,595
1,24,167	48,058	66,827	1,19,763	94,582	6,27,869	20,27,457
+1,38,807	+87,242	+54,280	+17,334	+2,44,235	+731,263	+14,83,404

ANNUAL FORM NO. 26.—Revenue received and Outstandings on account of Revenue during the year 1918-19.

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during the year.	Total.	Amount realised during the year.	Balance due to the Department at end of year.	Remarks.
1	2	3	4	5	6	7	8
NORTHERN CIRCLE.							
Direction	Miscellaneous	Rs. a. p. ...	Rs. a. p. 1,715 0 0	Rs. a. p. 1,715 9 0	Rs. a. p. 1,715 0 0	Rs. a. p. ...	Column 6 includes the following:— A.—Amount deducted as correction of entries on the accounts. B.—Amount written off as irrecoverable. A. Rs. a. p. B. Rs. a. p. (a) 55 0 0 23 3 6 (b) 602 8 0 38 6 0 (c) 272 0 0 1,494 6 6 (d) 7,168 0 0 132 0 0 (e) 2,379 0 0 13 6 0 (f) 9 0 0 5,213 10 0 (g) 2,032 8 0 ... (h) 576 11 0 177 10 0
North-Mandla	Timber and other produce...	6,493 3 6	94,980 4 9	1,01,473 8 5	94,804 0 3	6,669 8 0	
South-Mandla	Do.	3,660 6 11	1,08,792 6 8	1,12,452 13 7	91,711 11 4	20,741 2 3	
Jubbulpore-Nagpur	Do.	4,499 5 0	1,11,685 4 10	1,16,184 9 10	1,12,721 9 10	3,463 0 0	
Damoh	Do.	12,653 0 0	1,89,267 0 0	2,01,920 0 0	1,98,520 0 0	3,400 0 0	
Saugor	Do.	6,251 8 6	1,52,536 15 5	1,58,791 7 11	1,31,837 15 1	6,953 8 10	
Hoshangabad	Do.	1,198 13 10	1,82,353 7 2	1,83,552 5 0	1,81,302 5 0	2,250 0 0	
Seoni	Do.	18,884 11 2	1,92,214 13 8	2,11,099 8 10	1,77,177 8 10	33,922 0 0	
Chhindwara	Do.	1,522 12 3	1,45,550 15 5	1,47,072 11 8	1,42,030 5 6	5,043 6 2	
	Total	55,163 13 2	11,50,099 3 11	12,14,263 1 1	11,31,820 7 10	81,442 9 3	
SOUTHERN CIRCLE.							
Direction	Miscellaneous	Rs. a. p. ...	Rs. a. p. 3,920 14 9	Rs. a. p. 3,920 14 9	Rs. a. p. 3,920 14 9	Rs. a. p. ...	13,094 11 0 1,931 13 10
Balaghat	Timber and other produce...	15,610 2 3	2,11,097 4 10	2,26,707 7 1	(a) 2,13,647 4 10	13,060 2 3	(a) Includes Rs. 561 written off as irrecoverable, vide Chief Conservator's sanction No. 1370-F-230, dated the 5th August 1918.
Balaghat-School	Miscellaneous	...	221 15 8	221 15 8	221 15 8	...	
Bhandara	Timber and other produce...	6,665 0 0	1,44,993 13 10	1,51,658 13 10	1,26,064 5 10	25,594 8 0	
Bilaspur	Do.	1,385 0 0	65,906 12 3	67,291 12 3	67,053 12 3	238 0 0	
North-Chanda	Do.	617 3 9	1,79,275 4 8	1,79,892 8 5	1,75,407 4 11	4,485 3 6	
South-Chanda	Do.	2,27,874 12 3	2,05,146 5 5	5,83,021 1 8	(b) 5,12,368 4 3	20,652 13 5	(b) Includes Rs. 3,13,188 written off, vide Local Government's sanction No. 237-D-XV, dated the 18th November 1918.
Nagpur-Wardha	Do.	7,860 1 0	88,984 2 6	96,844 3 6	55,438 15 6	1,405 4 0	
North-Raipur	Do.	199 0 0	59,853 0 4	60,052 0 4	58,379 8 4	1,673 8 0	
South-Raipur	Do.	4,978 0 0	94,552 5 4	99,530 5 4	96,180 11 7	3,349 9 9	
	Total	3,65,189 3 3	10,53,951 15 7	14,19,141 2 10	13,48,683 1 11	70,458 0 11	
BERAR CIRCLE.							
Direction	Sales of timber and other forest produce and miscellaneous sources.	Rs. a. p. ...	Rs. a. p. 1,494 0 9	Rs. a. p. 1,494 0 9	Rs. a. p. 1,494 0 9	Rs. a. p. ...	
Melghat	Do.	547 2 6	1,39,414 10 0	1,39,961 12 6	1,37,096 14 0	2,864 14 6	
Amraoti	Do.	18,197 0 0	1,37,288 5 8	1,55,485 5 8	1,21,107 5 8	34,378 0 0	
Buldana	Do.	3,400 0 0	1,51,315 0 3	1,53,715 0 3	1,52,045 0 3	1,700 0 0	
Yestmal	Do.	4,253 0 0	3,35,179 5 0	3,39,532 5 0	3,38,817 0 0	715 5 0	
Akola	Do.	1,387 8 0	1,33,965 5 6	1,35,252 13 6	1,35,300 13 6	52 0 0	
Ninar	Do.	393 6 0	2,64,733 6 6	2,65,126 12 6	2,62,972 14 6	2,153 14 0	
Betul	Do.	16,484 0 0	2,08,910 7 9	2,25,394 7 9	2,10,398 7 9	15,096 0 0	
	Total	45,762 0 6	13,72,330 9 5	14,18,092 9 11	13,59,132 8 5	58,960 1 6	
GRAND TOTAL CENTRAL PROVINCES AND BERAR.		4,64,115 0 11	35,85,381 12 11	40,49,496 13 10	38,39,730 2 2	2,09,860 11 8	

ANNUAL FORM NO. 27.—[PRESCRIBED.]—Outstandings and Liabilities on account of Contractors and Disbursers for the Forest year 1918-19.

Division.	Department Debtor.			Department Creditor.			Balance due.		Remarks.
	Opening balance.	Recoveries in cash and value of supplies and work done during the year.	Total.	Opening balance.	Payments made during year.	Total.	To Department (Outstandings).	By Department (Liabilities).	
I	2	3	4	5	6	7	8	9	10
NORTHERN CIRCLE.									
Direction	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
...	...	19,180 10 5	19,180 10 5	126 2 11	19,404 15 10	19,531 2 9	350 8 4	...	
Damoh	...	1,11,426 15 7	1,11,426 15 7	4,192 7 6	1,09,456 13 3	1,13,649 4 9	2,222 5 2	...	
Hoshangabad	...	2,84,240 5 0	2,84,240 5 0	5,084 14 2	2,93,761 9 9	2,98,846 7 11	14,606 2 11	...	
Jubbulpore-Narsinghpur	...	91,124 9 0	91,124 9 0	331 6 7	91,811 5 8	92,142 12 3	1,018 3 3	...	
North-Mandla	...	39,798 14 4	39,798 14 4	476 10 1	42,063 10 11	43,440 5 0	3,641 6 8	...	
Seoni	...	1,52,884 13 8	1,52,884 13 8	1,083 15 0	1,59,165 9 5	1,60,249 8 5	7,364 10 9	...	
South-Mandla	...	60,604 0 9	60,604 0 9	2,357 11 1	65,302 6 6	67,660 1 7	7,035 0 10	...	
Saugor	...	76,075 2 8	76,075 2 8	5,838 6 5	72,850 10 4	78,689 0 9	2,613 14 1	...	
Chhindwara	...	1,04,805 3 6	1,04,805 3 6	652 0 7	1,09,199 8 4	1,09,842 8 11	5,037 5 5	...	
Total	...	9,40,140 10 11	9,40,140 10 11	20,143 10 4	9,63,997 10 0	9,84,051 4 4	43,910 9 5	...	
SOUTHERN CIRCLE.									
Direction	...	18,032 9 9	18,032 9 9	397 5 11	17,903 13 8	18,306 3 7	273 9 10	...	
Balaghat	...	1,23,657 2 3	1,23,657 2 3	2,940 11 11	1,30,446 0 6	1,33,386 12 5	9,729 10 2	...	
Balaghat School	...	10,424 13 2	10,424 13 2	508 12 9	9,916 0 5	10,424 13 2	...	...
Bhandara	...	1,77,082 13 3	1,77,082 13 3	4,313 5 11	1,75,771 12 0	1,80,085 1 11	3,002 4 8	...	
Bilaspur	...	54,965 11 7	54,965 11 7	2,274 13 8	57,979 5 2	60,254 2 10	5,288 7 3	...	
North-Chanda	...	1,80,462 1 3	1,80,462 1 3	2,985 5 1	1,98,713 9 10	2,01,698 14 11	21,236 13 8	...	
South-Chanda	...	1,63,885 11 5	1,63,885 11 5	5,391 0 5	1,72,114 9 3	1,77,505 9 8	13,619 14 3	...	
Nagpur-Wardha	...	1,46,374 4 11	1,46,374 4 11	4,018 13 7	1,51,855 11 1	1,55,877 8 8	9,555 3 9	...	
North-Rajpur	...	55,399 6 4	55,399 6 4	1,163 8 0	64,995 8 10	66,159 0 10	10,759 10 6	...	
South-Rajpur	...	1,08,514 6 11	1,08,514 6 11	3,060 14 7	1,12,286 7 0	1,15,347 5 7	6,822 14 8	...	
Total	...	10,38,749 0 10	10,38,749 0 10	27,054 11 10	10,91,990 13 9	11,19,045 9 7	80,296 8 9	...	
BERRAR CIRCLE.									
Akola	...	43,053 13 4	43,053 13 4	841 10 1	44,542 15 9	45,384 9 10	2,330 12 6	...	
Amraoti	...	69,102 6 10	69,102 6 10	7,646 5 7	72,918 0 5	80,164 6 0	11,061 15 2	...	
Betul	...	1,55,290 3 6	1,55,290 3 6	3,196 12 1	1,58,382 15 11	1,61,579 12 0	6,289 8 6	...	
Buldana	...	41,052 3 0	41,052 3 0	2,948 5 8	41,189 13 1	44,138 2 9	3,085 15 9	...	
Melghat	...	1,40,613 9 4	1,40,613 9 4	13,591 11 9	1,60,814 9 5	1,74,406 5 2	33,792 11 10	...	
Nimar	...	3,10,405 15 3	3,10,405 15 3	23,135 8 4	3,41,442 3 2	3,64,577 11 6	54,171 12 3	...	
Yeotmal	...	1,69,934 3 0	1,69,934 3 0	32,841 10 11	1,54,441 6 0	1,87,283 0 11	17,548 13 11	...	
Direction	...	20,463 4 7	20,463 4 7	546 11 2	13,209 2 11	13,755 14 1	292 9 6	...	
Total	...	9,42,015 10 10	9,42,015 10 10	84,748 12 7	9,86,541 2 8	10,71,289 14 3	1,28,374 3 5	...	
GRAND TOTAL CENTRAL PROVINCES AND BERRAR.	...	29,21,805 6 7	29,21,805 6 7	1,31,947 1 9	30,42,439 10 5	31,74,386 12 2	2,52,581 5 7	...	

APPENDIX A.

Statement showing number of animals grazed in Government Forest and its actual revenue therefrom and the value of grazing had the Commercial rate been charged for the animals during 1918-19,

Kind of animals.	Privileged.			Ordinary.			Full amount.		Free.		Right-holders.		Total.			Remarks.
	Number of animals.	Actual amount realised.	Value at full rates.	Number of animals.	Actual amount.	Value at full rates.	Number of animals.	Value at full rates.	Number of animals.	Value at full rates.	Number of animals.	Value at full rates.	Number of animals.	Actual value realised.	Value at full rates. i. e., Commercial rates.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
		Rs.	Rs.		Rs.	Rs.		Rs.		Rs.		Rs.		Rs.	Rs.	
NORTHERN CIRCLE.																
Buffaloes ...	435	107	435	54,782	39,964	65,008	89,105	1,01,280	5,058	6,462	...	...	149,980	1,41,351	1,71,205	
Buffaloes and Cows..	5,87,709	54,556	3,73,854	143,986	56,218	94,109	184,928	1,21,016	40,782	28,128	...	...	928,405	2,31,790	6,17,107	
Sheep and Goats ...	...	...	...	1,379	172	253	20,682	3,577	48	9	...	...	22,109	3,749	3,844	
Other animals ...	...	...	...	7	3	5	1,499	971	...	...	...	...	1,506	974	976	
Total ...	559,144	54,663	374,289	200,154	96,357	1,37,380	296,214	2,26,844	45,888	34,619	...	...	1,101,400	3,77,864	7,93,132	
BERAR PROPER.																
Buffaloes ...	1,970	914	3,502	...	...	...	116,640	99,418	37	63	...	...	118,647	1,00,332	1,02,990	
Cows and Bullocks..	3,36,901	1,12,331	2,17,723	...	...	...	400,335	2,76,998	190,736	1,01,362	375	375	928,347	3,89,329	5,96,458	
Sheep and Goats ...	1,100	104	207	...	...	...	190,842	50,489	21	6	...	...	191,963	50,593	50,702	
Other animals ...	244	46	210	...	...	...	2,084	1,079	7	6	...	...	2,335	1,125	1,295	
Total ...	3,40,215	1,13,395	2,21,649	...	...	...	709,901	4,27,984	190,801	1,01,437	375	375	1,24,292	5,41,379	7,51,445	
NIMAR AND BETUL.																
Buffaloes ...	...	...	...	13,585	9,777	26,144	27,311	48,463	253	413	...	...	41,440	58,240	75,020	
Cows and Bullocks..	108,864	13,703	96,869	47,000	15,500	41,723	55,376	55,017	14,105	12,066	...	...	225,346	84,220	2,05,775	
Sheep and Goats ...	...	...	...	...	...	...	41	3	415	68	...	...	456	8	76	
Other animals ...	...	...	...	18	2	18	86	64	132	102	...	...	236	66	184	
Total ...	108,864	13,703	96,869	60,904	25,279	67,885	82,814	1,03,552	14,905	12,749	...	...	267,487	1,42,534	2,81,055	
GRAND TOTAL ...	449,079	1,27,098	3,18,518	60,904	25,279	67,885	792,715	5,31,536	2,05,706	1,14,186	375	375	1,508,779	6,83,913	10,32,500	

NOTE.—Figures exclude transit cattle 49,460, nomadic sheep 3,295 and buffaloes 2,089. Revenue Rs. 10,474, Rs. 1,391 and Rs. 1,567, respectively.

APPENDIX B.

Statement showing the amounts under other sub-heads of main head R-II, when the sums received as commutation (and credited under R-II-g) are distributed appropriately amongst those other sub-heads for the forest year 1918-19.

Budget Heads.	North-Mandla Division.	South-Mandla Division.	Jubbulpore-Narsinghpur Division.	Damoh Division.	Saugor Division.	Hoshangabad Division.	Seoni Division.	Chhindwara Division.	Total.
1	2	3	4	5	6	7	8	9	10
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
NORTHERN CIRCLE.									
REVENUE.									
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—									
a. Timber	...	...	...	...	...	...	...	...	...
b. Firewood and charcoal	...	...	...	...	...	...	...	...	...
c. Bamboos	...	...	...	...	...	...	...	...	...
d. Sandal-wood	...	...	...	...	...	...	...	...	...
e. Grass and other minor produce.	...	...	...	...	...	...	...	...	...
Total I	...	...	...	...	...	...	...	...	...
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—									
a. Timber	16,104	22,284	14,059	19,895	17,580	94,458	56,942	43,398	2,84,740
b. Firewood and charcoal	7,584	4,233	36,037	10,826	9,585	19,799	20,350	4,092	1,12,506
c. Bamboos	8,424	5,340	5,993	1,952	3,471	22,068	7,107	7,879	62,234
d. Grazing and fodder grass.	45,466	44,965	29,518	69,598	75,292	24,913	69,288	68,840	4,27,880
e. Other minor produce	10,970	8,509	7,469	7,174	8,165	5,181	11,857	5,801	65,126
f. Other items	...	...	...	...	...	...	...	...	...
g. Commutation fees	...	...	...	...	...	...	...	...	...
Total II	88,548	85,331	93,076	1,09,445	1,14,093	1,66,419	1,65,544	1,30,010	9,52,466
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE.									
Total III	...	...	...	...	...	...	...	...	...
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—									
a. Duty on foreign timber and other forest produce.	...	...	...	...	...	...	...	...	...
b. Revenue from shared and private forests.	...	...	...	...	...	...	...	...	...
Total IV	...	...	...	...	...	...	...	...	...
V.—MISCELLANEOUS—									
a. Fines and forfeitures	...	...	...	...	...	...	...	...	...
b. Refunds	...	...	...	...	...	...	...	...	...
c. Other sources	...	...	...	...	...	...	...	...	...
Total V	...	...	...	...	...	...	...	...	...
GRAND TOTAL REVENUE	88,548	85,331	93,076	1,09,444	1,14,093	1,66,419	1,65,544	1,30,010	9,52,466