Administration report of the forest circles in the Bombay Presidency including Sind for the year 1915-1916

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ADMINISTRATION REPORT OF THE FOREST CIRCLES IN THE BOMBAY PRESIDENCY, INCLUDING SIND, FOR THE YEAR 1915-1916.

Conservators in charge of Circles during the year:-

Northern Circle.

W. F. D. Fisher, Esquire.

Central Circle.

- O: H. L. Napier, Esquire, 1st July 1915 to 21st September 1915 and 2nd November 1915 to 30th June 1916.
- D. A. Thomson, Esquire, 22nd September 1915 to 1st November 1915.

Southern Circle.

T. R. Bell, Esquire.

Sind Circle.

- E. G. Oliver, Esquire, 1st July 1915 to 13th November 1915 and 15th December 1915 to 14th April 1916.
- H. L. Newman, Esquire, 14th November 1915 to 14th December 1915.
- G. R. Duxbury, Esquire, 15th April 1916 to 30th June 1916.

CONSTITUTION OF STATE FORESTS.

1.—ALTERATION IN AREA.

Northern Circle.

CHAPTER I.

The changes in area during the year have been unimportant, being 995½ acres in South Násik and 371½ in North Násik disforested from reserved forest for cultivation, etc., and 368 acres being added to protected forest in South Násik, besides a few alterations of negligible magnitudes and the transfer of management of 169 square miles and 107 acres of reserved forest (Kalwan range) of the North Násik to South Násik as per Government Resolution No. 3506 of 24th March 1915.

The resultant totals for the circle are -

Class of forest.	An on 1st Ju	rea nly 1915.	Add during t	led . he year.	Excl during t	nded he year.	Area on 30th June 1916		
Reserved	Sq. m. 2,690	Acres. 228	Sq. m. 169	Acres.	Sq. m. 171	Acres.	Sq. m. 2,688	Acres. · 195	
Protected	487	581		356		28	488	269	
Reserved.	330	595	••	••	••		330	595	
Leased Protected.	325	13	•	••	the stage of the s		325	. 13	
Total	3,834	.137	169	520	171	225	3,832	432	

Central Circle.

At the close of the year the forest area of the circle stood 'at 5,436 square miles 431 acres as against 5,475 square miles 23 acres at its commencement. The main cause of the decrease was the disforestment, in the interests of cultivation, of 39 square miles 30 acres of pasture forests already in charge of the Revenue Department in the Ahmednagar and Sholápur Districts. Afforestation during the year comprised an area of 1 square mile 433 acres, consisting of isolated numbers in several districts within the demarcation line. Protected and leased forests remained practically unchanged.

In West Khandesh 54 square miles 115 acres of pasture forest, transferred to the management of the Revenue Department in 1898-99, were now retransferred to the Forest Department, for the purpose of the preservation of the existing tree growth, and of production of grass for grazing and cutting; while in Poona 3 square miles 480 acres of pasture forests were cleared of growth by the Forest Department and handed over to the Revenue Department; the clearance of all such lands in Poona will be completed within the current year. The actual area of forests under Forest Department management thus rose during the year from 3,686 square miles 291 acres to 3,738 square miles 135 acres.

Southern Circle.

- An important event of the year was the organization of a 5th Forest Division in Kánara entailing, as a consequence, the amalgamation of the Dhárwár and Bijápur Divisions. Those changes were introduced from 1st February 1916 as per Government Order No. 11396 of 27th October 1915, abolishing the Bijápur Division and inaugurating the Kánara Central Division. The re-adjustments were:—
 - (a) the Kánara Central Division was formed out of the Sirsi range of the Kánara Southern Division and the Ankola and Kumta ranges of the Kánara Western Division together with a bit of the Eastern Division;
 - (b) the Supa and Gund ranges of the Kánara Northern Division were transferred to the Kánara Western Division;
 - (c) the Kalghatgi and Bankapur ranges of the Dharwar Division were added to the Kanara Northern and Kanara Eastern Divisions, respectively;
 - (d) the remaining unorganized portion of the Dhárwár Division was amalgamated with the Bijápur Division, the combined charge being styled the Dhárwár-Bijápur Division.

By these arrangements the Kánara Divisions were reduced to two-thirds of their former size; the changes were effected with a view to the amelioration of the condition of the Kumri Maráthas in Kánara and for the better protection and more intensive management of the valuable forests in Kánara and Dhárwár.

The present report deals with the divisions as they now stand.

The total area of forest, though unaffected by the above readjustments, was reduced during the year by 11 square miles and 541 acres, as shown in the following statement:—

Class of fores	t		rea uly 1915.		ded the year.	Excluduring the		Ar on 30th 191	June	Remarks.
,		Sq. m.	Acres.	Sq. m.	Acres.	Sq. m.	Acres.	Sq. m.	Acres.	
Reserved	• •	4,466	513	2	29		393	4,456	228	*Changes due to rectifica- tions of errors inti-
		• •		*	242	*12	163		••	mated by the Forest Settlement Officer on a comparison of fo- rest registers with
Protected	••	133	359		••	*1	256	132	103	survey papers and on remeasurement of cer- tain areas in Kanara.
Total	•	4,600	232	. 2	271	14	172	4,588	331	

The real additions to, and the exclusions from, the area were 2 square miles and 29 acres, and 393 acres, respectively. Some scattered waste lands which were fitted for forest were constituted reserves in Belgaum, Dhárwár and Kánara. · · Disforestments in Kánara, Dhárwár and Bijápur were in the interests of agriculture. .

Sind Circle.

7777	7.	. •			were-
1 6	A 14 AMA	4		-	
	34.11.647.34	1.07111	1173	31.FG3	Wera

Class of forest.	Area on 1st July 1915.		Add during ti		Excluded during the year.			Area on 30th June 1916.			
A Profession	Sq. m.	Acres.	Sq. m.	Acres.	Sq. n	a. Acı	es.	Sq. m.	Acres		
Reserved Protected	1,150	275 585	37	572	29		66	1,159	141 585		
Total	1,151	220	37	572	29	}	66	1,169	. 86		
Rese	ns were— vial accre rvation b ification	tion y notifi			••	Sq. m. 35 2	. 1	огев. 195 377			
•	٠		,	Total	••	37		572			
		or tran			• • •	25 3		180 522 4			
				Total	. • •	29	<u>ئ</u>	66			
New New	ving valu alluvium alluvium es under	able tin withou with y	aber it trees oung gro	\mathbf{owth}	• •		1 6 5	Acres. ,858 ,133 ,869 613 ,707			
				Total	• •		16	,180			

In the previous year the total erosion was 15,070 acres.

The value of the material exploited from eroded areas (vide Government Resolution No. 804 of 2nd February 1900) was—

•		Acres.			
Approximate area eroded after exploitation		1,715			
-		Re.		• .	
Average value per acre as estimated prior to erosion		4	11	7	
Estimated value of timber before exploitation		8,104	8	10	
		11,108	11	9	
	Approximate area eroded after exploitation Average value per acre as estimated prior to erosion Estimated value of timber before exploitation Actual receipts	Average value per acre as estimated prior to erosion Estimated value of timber before exploitation	Approximate area eroded after exploitation 1,715 Rs. Average value per acre as estimated prior to erosion 4 Estimated value of timber before exploitation 8,104	Approximate area eroded after exploitation 1,715 Average value per acre as estimated prior to erosion 4 11 Estimated value of timber before exploitation 8,104 8	Approximate area eroded after exploitation 1,715 Average value per acre as estimated prior to erosion 4 11 7 Estimated value of timber before exploitation 8,104 8 10

One hundred and fifty-three acres containing growth valued at Rs. 420 were eroded before exploitation was possible, the river action being very rapid.

One thousand nine hundred and three acres threatened with erosion were exploited. The resultant material was sold for Rs. 7,180.

Acquisition of	kachas	adjoining	forests—
----------------	--------	-----------	----------

intoth or machine adjoining recessed.	-	Acres.
Kacha claims pending at the end of last year	• •	12
New claims made during the year		45
Decided in favour of the Forest Department		40
Decided against the Forest Department	• •	2
Claims withdrawn	• •	3
Still undecided		12

Two thousand one hundred and seventy acres and 38 gunthas were temporarily alienated to other Departments.

2.—Forest Settlements.

Northern Circle.

Work under this head was limited to small local adjustments by the exofficio Settlement Officer. All settlements are complete.

Central Circle.

Settlement work consisted of the notification of 33 acres under section 19 of the Forest Act in Sátára and West Khándesh, and of 37 acres under section 4 in Kolába. Rs. 1,760 were spent on the acquisition of these lands which were either for inclusion in forest or for building sites for forest posts.

Outstanding work in the circle consists of the acquisition of lands within the demarcation line in the Poona and Sátára Divisions, a very large question to which attention was drawn in last year's report, and for which Government have ordered that a systematic programme should be framed. The settlement of 25½ square miles of waste lands in West Khándesh, of which Government had approved the afforestation, is now in progress.

Southern Circle.

The progress made in settlement work during the year was:—Notification of 2 square miles and 29 acres under section 19 of the Forest Act and 8 square miles 24 acres under section 4. Final proposals for afforestation of 56,896 acres in Belgaum and those for Kánara, referred to in sub-section 2 of Chapter I of last year's report, were submitted to the respective Collectors. The proposals for the appointment of special Forest Settlement Officers for Kánara and Belgáum, referred to in last year's report, are still under the consideration of Government. Without special officers for this kind of work no real progress is possible.

Sind Circle.

Area awaiting settlement at commencement of the year						
Area added by notification under section 4 of the India Forest Act	an 	9				
Total	••	7,781				
Area actually settled under section 19 of the Indi Forest Act Balance awaiting settlement Expenditure	ian	7,108 673 <i>Nil</i> .				

The work done was very satisfactory.

3.—Demarcation.

Northern Circle.

The only new work done was in South Násik where it is chiefly limited to the erection of intermediate cairns. Satisfactory progress is being made. Elsewhere only current repair and painting of former cairns was carried out, demarcation being complete.

Central Circle.

Expenditure under this head was Rs. 5,174, of which Rs. 2,613 were on 221 miles of new work, and Rs. 2,561 on maintenance of 4,931 miles of already demarcated boundaries. The new work comprised the survey of over 100 miles and the demarcation of 38 miles in the Poona Division; the demarcation of 48 miles in West Khándesh, and of 135 miles in Kolába. Outstanding, work consists solely of 162 miles in Kolába, and of 658 in the Akola and Rájur ranges of the Nagar District which form part of the Poona Division. The former it is hoped to complete within the year, while the latter will be pushed on as fast as funds and establishment permit.

Southern Circle.

Expenditure under this head was Rs. 2,743 on 1,068 miles of new work, and Rs. 698 on repairs to 656 miles of already demarcated boundaries. Much of the expenditure on new work was incurred on the following important frontier lines:—

*							
	Line demarcated.	Cost.	Cost per mile.				
The Mysore State frontier line in the Kanara Southern Division.	Miles. 11 <u>1</u>	Rs. 1,477	Rs. 131				
The Portuguese Territory frontier line in the Kanara Western Division.	147	856	57				
The Sávantwádi State frontier line in the Belgaum Division.	5	245	49				

The expenditure on the Mysore frontier line was very heavy on account of the hilly and precipitous nature of the country and the difficulty of securing labour in the unhealthy tracts. Only 3 miles now remain to be demarcated. Betta demarcation was continued in the Sirsi and Siddápur Tálukas; 1,026 miles were demarcated at a cost of Rs. 270. The work in Siddápur is not yet finished.

In the Kánara W. D., 14 miles of the Goa frontier line were completely demarcated and a further 15 miles were surveyed. When this surveyed line is cut next year, there will remain about 20 miles still to be surveyed and cut. Scarcity of labour prevented the surveying and line cutting work from proceeding simultaneously. The line surveyed in the Supa Range this year has been given out on contract for cutting.

In the Belgaum Division, besides the 5 miles of the Sávantwádi State frontier line, 6 miles of internal lines were cleared at a cost of Rs. 24. Old lines were cleared, cairns repaired and R. F. stones erected in the Khánápur and Gokák ranges.

In the Kánara Northern Division demarcation work is complete.

In the Kánara Eastern Division about 300 miles of old lines were cleared. About 4 miles of 132 feet strips were demarcated around cultivated lands in six villages of Yellápur Range. The Divisional Forest Officer reports, as last year, that the people have no use for these strips, and that the Government Orders regarding it, which were issued 7 years ago, might well be revised in the light of the experience of the local officers.

In the Kanara Central Division old lines were systematically gone over and cleared. Betta demarcation in Sirsi was completed very shortly after the creation of the Division.

In the Dhárwár-Bijápur Division 3 miles of line were newly demarcated at a cost of Rs. 24, and some old lines were gone over and cleared departmentally at a cost of Rs. 30. About 290 miles of line between the forest and cultivations in the Bijápur sub-division were cleared by the cultivators concerned on the concession of removing for their own use wood and thorns cut on the line. About 630 miles remain still to be cleared and this work may still take a couple of years to complete.

Sind Circle.

Internal Boundaries.—The forests are divided into half-mile squares by rides 20 feet wide. Eighty-nine and a half miles of new compartment lines were cut during the year. This important work received most attention in Jerruck. Two thousand three hundred and six and a half miles of previously cut rides were kept clear by free labour valued at Rs. 4,712.

One hundred and nineteen thousand one hundred and forty-six acres remain round which rides have still to be cut. Much of this area at present contains young growth and the work here will not be taken in hand until the stock is more advanced.

External Boundaries.—Thirty-four miles and 860 feet were demarcated by 396 new boundary marks round newly afforested areas. Eighteen thousand seven hundred and thirty-one old boundary marks on 2,045 miles 4,665 feet of line were repaired free of cost.

4.—Forest Surveys.

Northern Circle.

None were carried out.

Central Circle.

None were undertaken by the Survey of India.

The total expenditure on the "Constitution of State Forests" was Rs. 6,934 as against Rs. 4,834 in 1914-15.

Southern Circle.

No survey was carried out in this circle during the year.

The total expenditure on the "Constitution of State Forests" was Rs. 6,630 during the year as against Rs. 5,692 last year.

Sind Circle

The work done by the Working Plans Assistant and his staff and the surveyors attached to each division is given below separately:—

By whom.	Division.	Rivor course surveyed. Rivor course surveyed and checked. Rivor course surveyed and checked. Forest bound-test trees of compartment lines.		No. of maps pre- pared,	end and	o. of upes arked their rea.	Levellin of bund and dra- age pro- jects.	15 -11					
		Miles.	chains.	Miles.	chains.		Miles.	chains.		No.	Acres.	Miles f	b.
Working Plans Assistant and his staff.	Bukkur	6 45	18 34	49 468	39 41	327 1,063	119 456	25 3	64	14 =	 1,893	1 85	50
Divisional surveyors.	Sukkur Hyderabad Jerruck	87 106 75	0 0 0	97 463 129	0 41	1,063	29 456 12	0 3 0	19 167 43	24 ′= 8 =		14	0

The survey of river frontages and marking of coupes was carried out as usual by the Range Forest Officers, the number of miles of river frontage surveyed being 71 and that of coupes demarcated and laid out being 132. Range Forest Officers in the Lárkána and Hyderabad Divisions also prepared 105 tracings.

CHAPTER II.

MANAGEMENT OF STATE FORESTS.

1.-REGULATION AND MANAGEMENT.

(a) Preparation and Control of Regular Working Plans.

Northern Circle.

Preparation.—A working plan for the South Dángs forests was completed by the Divisional Forest Officer during the year and, after approval by the Collector of Surat, the Conservator of Forests, Northern Circle, and the Commissioner, Northern Division, has been sent to the press for printing.

The working plan of the Eastern Maháls (Dohad and Jhálod of Panch Maháls) was examined and discussed by the Conservator and the Divisional Forest Officer and a revision decided upon involving the introduction of clear fellings in the place of coppice with standards. Owing to various urgent circumstances, the revision has been given effect to, in anticipation of Government sanction. The working plan report under preparation by the then Divisional Forest Officer has not yet been received. It is hoped the plan of the western maháls will be taken in hand in the coming season.

Good progress was made in the revision of working plans of the three Thána divisions in spite of two changes of the officer in charge. The preliminary report will be ready shortly and will be considered by the Inspector-General of Forests on the ground in the coming season, thus enabling its introduction, it is hoped, in 1917-18.

An attempt is to be made to take the plans of the forests of the Násik Divisions in hand in the coming season if the reduced staff of the Imperial officers can cope with the work.

The above efforts when completed will have dealt with all the forests of the circle except those of Mándvi and Central Dángs of the Surat Division, the plan for North Dángs of that division having been sanctioned last year.

Control.—Prescriptions under existing working plans were given effect to as far as possible as formulated in the respective plans of operations. There was no material variation from them except all possible reduction in capital expenditure on communications and buildings owing to necessity for economy on account of the war.

Central Circle.

During the year working plans for the following areas received the sanction of Government:—

The Mulshi evergreen forests in the Po	oona Division		38
The Lonávla and Ambegáon teak as in the same division	nd sub-ghat fo	• •	2 ,
The Trans-Purna babul reserves in to Division	the East Khái	idesh	4
	\mathbf{T}	otal	44

The Working Plans Officer was employed during the fair season on the collection of data for a plan for the teak forests in the Jávli, Wái and Sátára ranges of the Sátára Division, an area of 97 square miles. The plan is now under preparation. The Divisional Forest Officer, Poona, continued his work of the revision of the teak and babul plans of his division, a work necessitated by the transference to the Revenue Department a few years back of large areas covered by both original plans; the area under the revised plans will be 589 square miles, and both are practically completed so far as writing and mapping are concerned, while work according to the new prescriptions has already commenced.

The revised plan of the East Khándesh Sátpuda forests, 400 square miles, referred to in last year's report, is still incomplete, the delay being solely due to the difficulty in reconciling the silvicultural necessities of the forests with the privileges and practices of the surrounding population. It is hoped however that the matter will be satisfactorily settled before long, and that the new provisions may come into force in 1917.

Sixty-two per cent. of the forest area of the circle is now under organized working, and for the remaining 38 per cent. plans are in preparation for roughly one-eighth part, while for seven-eighths plans are not yet a matter of any urgency. Revision is still of more importance than new work, and will be pressed on.

The prescriptions of sanctioned plans were on the whole carried out. Minor deviations as usual resulted from such causes as shortage of labour and inaccessibility of coupes; to which were added financial stringency and lack of demand for any but the most valuable material.

Southern Circle.

Preparation.—The following working plans were sanctioned during the year:—

- (1) The Chandavar fuel plan—coppice with standards—in Kánara S. D.—for the supply of fuel to the Kumta town.—Area 13 square miles, cost Rs. 1,837 or Rs. 141 per square mile.
- (2) A revised plan for Block VII-A—in Kánara N. D.—Teak Pole—coppice with standards.—Area 7 square miles, cost Rs. 790 or Rs. 113 per square mile.
- (3) A revised plan for the Nagargali high forests (Block XIX) in the Belgaum Division—Improvement felling system.—Area 14 square miles: cost Rs. 12-8 expended on a few photos illustrative of the plan. This plan was compiled by Mr. Hodgson, Divisional Forest Officer, Belgaum, in the course of his ordinary duties with no extra cost, for which he was granted an honorarium of Rs. 2,000 by Government.

The following plans were completed during the year:-

- (1) Gokak working plan-submitted for Government sanction;
- (2) Revised Khánápur fuel plan—ready for submission;
- (3) Kirwatti teak pole plan—sent to Press;

(4) Kalghatgi range plan, and

- (5) Bankápur and Hangal range forest plan-approved by the Collector;
- (6) Revised plan for Blocks VIII, IX and XX of Kánara N. D.—provisionally approved in Government Order No. 806 of 22nd January 1916, was sent to press.

The following plans are in course of preparation:-

- (1) Revised plan for Block XII—Yellápur slopes in Kánara C. D.—Area 28 square miles, cost during the year Rs. 5,805 or Rs. 208 per square mile.
- (2) Revised plan for Mundgod high forest—Blocks XXII, XXIII and portions of Blocks XVI, XVIII and XXI.—Area 157 square miles, cost during the year Rs. 5,390 or Rs. 35 per square mile.
- (3) Revised plan for the Mundgod teak pole area.—Ten square miles, cost during the year Rs. 414 or Rs. 41 per square mile.
- (4) The Honáwar Bhátkal fuel plan.
- (5) Revised Golihalli Godoli teak pole plan.
- (6) Belgaum range plan.

Nos. 1 and 2 of the plans completed during the year and Nos. 5 and 6 of the plans under preparation were compiled by Mr. Hodgson, Divisional Forest Officer, Belgaum, and the rest by Mr. Miller, Divisional Forest Officer, Working Plans.

The field work done by the Working Plans party during the year was entirely confined to Kánara E. D. and a portion of Kánara C. D.

Control.—The work under high forest plans in Kanara N. D. is up to date; that under the Dhárwár plan is a little in arrears, some coupes remaining unsold for want of demand. In Kánara E. D. the work in two out of the four plans is 1 to 3 years behindhand due to difficulties of labour and transport, and the Divisional Forest Officer is strongly in favour of a light railway (a scheme for a line is presumably under the consideration of Government) that would tap the forests of Kánara E. D. and C. D. On account of cattle disease and plague some work remained in arrears in Kánara C. D. In Kánara S. D., Belgaum and Dhárwár-Bijápur Divisions the work is almost up to date. In Kánara W. D. the Gund working plan fellings are six years in arrears, and there are still heavy arrears of work remaining in the old fellings undertaken before that, in the shape of some thousands of logs in jungle depôts, and even trees not yet cut in the jungles. These arrears are chiefly due to difficulties of transport, and it is hoped they may soon be reduced by improving the bed of the Kaneri river and opening another outlet from the Gund plateau to relieve congestion on the Holegadda slide. Mr. Haines, Executive Engineer, Dhárwár District, who was deputed to the Forest Department during the year on the work of improving transport facilities, made a preliminary examination of the bed of the Kalinadi river above Kadra with a view to facilitating the floatage for logs. In the Kálinadi slopes working circle, there are still some logs to be removed and the main fellings are a year behindhand. The improvement fellings prescribed in the working plan have never been begun owing to scarcity of money and labour. This is serious but unavoidable.

Sind Circle.

Excepting new kachas and recent reservations, all forests in Sind have been organised under regular working plans. These are under process of revision. The prescriptions of the revised working plan were carried out in Jerruck. In Hyderabad, where the plan has been finished this year and forwarded to Government for sanction, the revised prescriptions were introduced in advance except in the Miani Range.

The field work of the revision of the Larkana working plan was completed by the 31st March 1916 and in addition to valuable re-survey work of the external boundaries and compartment lines of the forest and of the course of the Indus, detailed examination of compartments was made with a view to the preparation of stock maps. The total cost of the field work of the revision inclusive of the pay of the Working Plans Assistant and his staff amounted to Rs. 6,800 or Rs. 29-5-8 per square mile. In April and May the work of revision of the Sukkur working plan was started.

(b) Preliminary Working Plan Reports.

Northern Circle.

There were none.

Central Circle.

The only one submitted was that for the forests of the Sátára Division mentioned above.

Southern Circle.

Remarks on these have been included above.

Sind Circle.

Nil:

(c) Plans of Operations.

Northern Circle.

See above under "Control."

Central Circle.

These were prepared in all divisions and carried out with a few minor and unimportant exceptions, and subject to some reductions of funds by Government.

Southern Circle.

These were prepared in all divisions and carried out as far as possible; some of the unremunerative works, such as buildings and wells, were postponed with a view to economy in expenditure during the year.

Sind Circle.

Plans of operations were submitted for each division and duly carried out with minor and unimportant modifications. Some dead wood was worked out in every division.

2.—Communications and Buildings.

(a) Roads and Bridges.

Northern Circle.

New road work was confined to the Dángs of the Surat Division where immediate return will be realised by permitting the progress of working plans both sanctioned and prepared.

The following work was executed:-

Mahal-Dulda road, 2½ miles,		Rs 2,000
Pandwa-Borkhal road, 1½ miles } Pandwa-Holbari road, 2 miles }	••	2,500
Waghai-Malegaon road, 4½ miles	• •	4,500
Galkund-Pandwa road, 5 miles	••_	1,500
Total (15½ miles)		10,500
And on repairs over 127 miles		5,055

A considerable amount of alignment for new roads was also carried out in this (Surat Dángs) and Peint of the South Násik Division.

A sum of Rs. 2,360 was spent on the repairs of unmetalled tracks in other divisions and a sum (annual) of Rs. 1,100 was paid to the Public Works Department as a contribution towards the up-keep of the Harsul-Goldari road in the South Násik Division.

The Divisional Forest Officer, South Násik, has called attention to the prospective advantage of developing the two Peint ranges comparing their potential value to that of the Dángs. The facts noted are recognised, as in the adjoining maháls of Mokháda and Talasari of the Thána District, but for realization it requires as a preliminary the prime factor accorded to the Dangs, viz., a full-time officer of special ability with a fairly free hand and suitable powers, or we shall merely accentuate the present evil of robbing the forests of capital. When such officer, funds and other essentials indicated are available, the development of a very valuable property can be commenced.

Central Circle.

Owing to financial considerations expenditure under this head was considerably reduced, and only the most urgent works were taken in hand. Two hundred and ninety-three miles of roads and paths were repaired at a cost of Rs. 5,034, while 18 miles of new roads and paths were constructed at a cost of Rs. 3,243. The total expenditure was Rs. 8,277 as against Rs. 17,435 in 1914-15.

In North Khándesh, metalling was continued of the Wasardi-Bhurki road, 3 miles long, and which was commenced in 1912-13; and cutting and levelling of an extension of one mile to Kodit was completed. The total cost was Rs. 778. The Hisala-Bhoiti road, commenced in 1913-14, was extended by one mile at a cost of Rs. 792; its value will be evidenced during the next four years, for it taps important coupes now due for working. In the Akrani communication has been much improved by the realignment, broadening and repair of 109 miles of bridle tracks costing Rs. 724, the alignment being, wherever possible, made with a view to the eventual conversion of the tracks into fair weather roads. Already there are indications of carts being introduced into this hitherto cartless area, but only for use within the area itself. The difficulties of ascent to it are such that it must be many years before there can be cart traffic between it and the plains, and bridle tracks for the present must remain the sole means of communication.

In this connection reference may be made to the road aligned by the Public Works Department to connect Dhádgaon viâ Kothar with Taloda. From the forest point of view such a road, passing through forests of small value, can be of little use, whereas a road connecting Dhádgaon with Sháháda, though slightly longer than the former, would, it is believed, be easier of construction, and would pass through really valuable forest which cannot now be touched for lack of good means of communication with the plain. It is suggested therefore that reconsideration of the scheme by the Public Works Department is very desirable, a view held also by the Collector, who writes: "The Collector is in full agreement with Mr. Starte in his remarks on the Kothar-Dhádgáon road; there is nothing in the circumstances of the Akrani to justify the heavy expenditure which this road will necessitate. It has been advocated chiefly as facilitating the transport of liquor from the Dhulia distillery, and so leading to the abolition of the distillery at Dhádgáon. It does not appear to the Collector that 'the game is worth the candle'."

In West Khándesh Rs. 798 were spent on new roads and on repairs to existing roads.

In East Khandesh no new work was undertaken; Rs. 1,220 were spent on improving alignments and on repairs. The Collector writes: "The need for providing roads is still acute; until communications are opened out, there is no hope of improved revenue or even of more close supervision." With this view the Conservator is in full agreement; the revised working plan contains many valuable suggestions from Mr. Copleston, and effect will be given to them as soon as funds and personnel, now reduced by the permanent Divisional Forest Officer having gone on military duty, admit.

In Poona 1½ miles of the ghat crest bridle path near Lonávla was converted into a cart track, making the total length of road now accessible in this way up to eight miles. Other work consisted of repairs only to bridle paths in the Poona District itself and in the Akola and Rajur ranges of the Nagar District, a work which much facilitates the removal of minor forest produce by pack animals, and which will in time open up a trade in charcoal from forests which are now untouched.

In Sátára repairs to the Vang valley and Koyna valley roads cost Rs. 1,947. New work on the latter consisted of further alignment by the Forest Department and of measuring of the lands traversed by the road by a Circle Inspector lent by The future of this road needs serious consideration; at present the Collector. work is stopped for want of funds, and in the opinion of the Conservator this is a matter for little regret, for as a Forest Department scheme it seems to him to have been ill-advised from its commencement. The Public Works Department has a project for a metalled road up the valley, but the Forest Department has neither the funds nor the technical knowledge to follow their alignment in this region of excessive rainfall, and perforce must take the line of least resistance with any track that it constructs—this involving endless crossings of the river. While an even more important consideration is that in this valley, denuded as it is by kumri cultivation and with the forests situated on inaccessible hill tops or up side valley remote from the main road, there is little, if any, forest material which can hope to pay the cost of extraction. At present the Conservator inclines to recommend to Government the definite abandonment of the road as a Forest Department work, but defers doing so until he has visited the lower end of the valley, which he will do in November with the Divisional Forest Officer. A more feasible scheme than the road would seem to be for the upper half of the valley a bridle path connecting with the main road near Pratapgadh, and which would facilitate the export of minor produce, such as hirda, fuel and charcoal, which alone the forests are capable of yielding; for the lower half of the valley, where there is some good timber though no teak, the utilization of the river itself for floating.

Speaking generally it is bad policy to spend money on a road with no prospect of a return, and to starve other forest areas which if opened up by good communications would prove immediately remunerative.

In Kolába repairs to two existing roads cost Rs. 85.

Southern Circle.

The expenditure under this head was Rs. 39,616 against Rs. 48,538 last year. Of this Rs. 12,846 were spent on new works and the rest on repairs. The most important items were:—

Kánara N.D.—Repairs to about 70 miles of roads. The District Local Board handed over the Haliyál-Kavalwad road (12 miles) to the Forest Department. Thirteen miles of cycle paths were made. Nothing further could be done with the proposed light railway from Bhistenhatti to Dandeli, no money being available for the survey of the line.

Kánara E. D.—Special repairs to 7 miles and current repairs to about 100 miles of road. Three wooden bridges were built on the Bilki-Chipgeri road and one on the Chipgeri-Bhidesgaon road. Fourteen miles of cycle paths were repaired.

Kánara C. D.—No new work was undertaken. A small wooden culvert was constructed on the Hattikeri-Gule road.

Kánara S. D.—The Nagarbastikeri-Gersi road (1 mile) and Chittar-Hadikal road (1 mile) were continued. The imcomplete bridges on the Haldipur-Hebbankeri and Chittar-Hadikal roads were completed. Eight miles of old roads were also repaired.

Kánara W. D.—The Hattikeri-Gule road extension (before transfer to Kánara C. D.)—2½ miles—Santgal-Markal road—1½ miles—(also before the transfer) and 1½ miles of Kadra-Shivpur road were newly made. Five miles of cycle paths were also constructed. Existing roads were repaired. Rs. 257, including temporary establishment, were spent in blasting rocks in the bed of the Káneri nalla to make a waterway for logs from the north of Gund range to the Kálinadi river.

Belgaum.—No new roads were undertaken. Existing roads were repaired. Rs. 6,253 were spent on the completion of bridges on the local fund roads. Thirty-two miles of cycle paths were made. The development of the future revenue of this division depends chiefly on these roads and better protection from fires.

Dhárwár-Bijápur.—Existing roads were repaired.

The usual contribution of Rs. 5,000 was paid by each of the Kánara N. and W. Divisions for repairs of local board roads.

Sind Circle.

The 20-feet rides through the forest are available as roads and used as such. They were repaired where necessary free of cost in all divisions.

(b) Buildings.

Northern Circle.

In Surat (North and Central Dángs) the following buildings were constructed :-

		Rs.
Songad depôt	• •	1,000
Addition to Ahwa Hospital		500
Godad utara	• •	500
Total of new works	•,•	2,000
Repairs in the rest of the district	• •	5,139
New buildings in other districts		2,193
Repairs to buildings in other districts		1,431
Grand total for new works	• •	4,193
 Grand total for repairs 	••	6,570
		10,763

Central Circle.

New work was almost at a stand-still for lack of funds. One guards' post was built in the Sátára Division; elsewere posts commenced in the previous year were completed, and all necessary repairs carried out. The total expenditure was Rs. 4,290 as against Rs. 20,689 in 1914-15.

Southern Circle.

Rs. 16,566 were spent under this head, of which Rs. 12,439 were incurred on new works and Rs. 4,127 on repairs to existing buildings on all divisions.

Rest Houses.—The old rest house at Nagargali (Belgaum) was pulled down and a new one constructed. The new rest houses at Katur (Kánara E. D.), Pattanpar (Kánara W. D.) and Shiroli and Parle (Belgaum) were completed.

Head Quarter Houses.—A new range office at Sirsi (Kánara C. D.), clerks' quarters at Khánápur (Belgaum) were constructed, and the range office at Kadrá (Kánara W. D.) was completed.

Houses for Subordinate Establishment.—A náka at Sirsi (old Kánara S. D.) was newly built; houses at Ramanguli (old Kánara W. D.) and Makarwalli (Dhárwár-Bijápur) were partly constructed; quarters at Chaudalli and Amatgar (Kánara E. D.), Tavag, Kanbargi and Katgali (Belgaum) were finished. A house was bought at Tambur (Kánara E. D.) for Rs. 155 for the use of forester and guards.

A good many buildings, though urgently required, had to be postponed for the sake of economy.

Sind Circle.

Rs. 879 were spent on new buildings as under:—

Sukkur		Rs.
Purchase of 6,334 square feet of land for Range For quarters at Rohri and cost of demarcation Construction of pucca brick floor in Ranger's quarter	:	206 192
Minor purchases Larkana—	••	23
Construction of guards' house at Gajidero Purchase of land for Kamaldero office and quarters Purchase of Kacha bricks and timber for Bakri hou	se	182 200 76
The Control of the Co	Total	879

Repairs to existing buildings cost Rs. 2,316.

The Public Works Department spent Rs. 273 on repairs to buildings in Sukkur.

(c) Miscellaneous.

Northern Circle.

Sinking of five wells
Repairs to wells and compounds and wire fences

Rs. 538

538

Central Circle.

One well in West Khándesh was completed, and two deepened in Sátára, at a cost of Rs. 299.

Southern Circle.

The expenditure under this head was Rs. 1,613. A new well was sunk at Bhátkal (Kánara S. D.) at a cost of Rs. 110. The remaining expenditure was on repairs to existing wells and tanks, clearing compounds, fencing rest houses and other buildings. The telephone connections in Yellapur-Kirwatti (Kánara E. D.) and Tavargatti-Dandeli (Kánara N. D.) were maintained.

Under Government Order No. 611 of 19th January 1916 an Engineer was deputed to survey the bed of the Kálinadi river. The work was commenced during the year, but it was not possible to make much headway.

Sind Circle.

New minor irrigation works were only undertaken by the Department in the Jeriuck Division where excavation of two karias in Budka forest cost Rs. 75.

Repairs to existing works cost Rs. 2,326.

The Public Works Department constructed the following sluices during the year:—

Construction of a sluice in the Choi loop to irrigate	Rs.
Mohromari forest	2,818
2 sluices ex-Korai wah for Hingoro forest	363
Conversion of 7 submerged sluices ex-Masuwah into	
open sluices for Wasir forest	1,357
Forest sluice ex-Choi branch mile 3	182
•	
Total	4,720

3.—PROTECTION OF FORESTS. (a) General Protection.

Northern Circle.

Statement of Offences by nature and treatment and comparison with former years.

																J	
•	Ca	ses te Co		ato	Ca	ses co	B mpou	nded.	Ca	u <i>o</i> 808.	C detec	ted.		נ	otal.		
Division.	Injury to forest by fire.	Unauthorized felling,	Grazing without permission.	Other offences.	Injury to forest by fire,	Unauthorized folling.	Grazing without permission.	Other offences.	Injury to forest by fire.	Unanthorized felling.	Grazing without permission.	Other offences.	Injury to forest by fire.	Unauthorized felling.	Grazing without permission	Other offences.	Grand Total.
Panch Maháls (1915-16	. 5	. 2	10		7	571	853	76	48	975	1	6	55			-	1,849
(1914-15	8	11	15	8	4	516	895	21	106	249	8		118	769	412	24	1,323
Surat {1915-16	4	. 2			4	19	20	8	` 4	1		2	19	82		1	64
(1914-15	81	•	.1	2	5	25	28	7	8	6		1	39	81	. 29	10	109
North Thána { 1915-16	1	13	1	1	4	149	197	81	57	135		2	623	290	198	84	584
(1914-15	1	5	1	•••	8	92	168	26	60	109		2	64	199	169	28	460
CentralThans { 1915-16	6	9	7	1	1	209	235	81	53	82	•••	1	60	293	249	33	625
C51141 22 2 2 1914-15	23	5	5	ļ. 	1	918	223	19	86	140	1		110	363	229	19	791
South Thána { 1915-16	1	11	19	4	5	236	834	89	· 70	190	3	•••	76	497	349	43	905
1914-15	2	14	19	3	19	223	306	45	71	205	23	3	85	449	320	51	898
North Nasik { 1915-16	8	10	5	1	4	335	499	65	81	86		1	87	381	504	67	969
NOTED MUSIE \1914-15		8	16	5	4	881	392	87	13	75	[17	464	408	42	, 931
South Nasik [1915-16	1	17	17	5	7	404	341	57	60	9Ş	}	401	68	519	358	63	1,007
1914-15	8	22	20	1	17	470	405	70	64	135	· ••••	10	69	627	425	90	1,231
Total of 1915-16	20	67	59	19	99	1,916	2,479	807	818	817	4	12	870	2,790	2,535	331	6,026
Total of 1914-15	T 3	65	70	14	46	1,925	1,917	'234	403	908	5	16	529	2,895	1,992	264	5,673
Average of the past three years.	58	82	56	18	88	9,294	2,060	246	862	943	7	24	458	9,319	9,193	283	6,183

There was a general absence of serious crime. In Dohad of Panch Maháls, Tansa catchment of South Thána and Dindori of South Násik incendiarism of the forests is undoubtedly practised, but the reasons are for small local gains, such as clearing the forests for early grazing, hunting and local quarrels over grass, giving no reason to suspect any local grievance against forest regulations.

One extensive unauthorized felling by a jagirdari contractor in the Dángs

has come to light. The case is pending.

The total number of offences shows an increase of 353 over the past year, but is 157 less than the average of the past three years.

The chief increase is in the Panch Maháls of 526 cases, due mainly to the influx of cattle from Káthiáwár and North Gujarát where scarcity existed, the owners of which showed themselves lawless and turbulent. North Thána showed an increase of 124, due to more complete reporting of illicit fellings, though the Divisional Forest Officer says only a small percentage of these cases are even now reported.

On the other hand, South Násik shows a decrease of 224 cases, doubtless largely due to slackness in reporting, though some decrease in grazing cases in Dindori is due to greater grazing facilities given. The Divisional Forest Officer, South Thána, draws attention to the decrease in cases reported in Salsette as entirely due to slackness on the part of the Range Forest Officer. Suitable steps have been taken.

There was a decrease in cases taken into Court from 222 of the last year to 141 in the year under report. This was chiefly due to 27 extra cases last year in the Dángs during the Bhil unrest and 17 fewer cases this year under "Fire" in Central Thána, which the Divisional Forest Officer accounts for by the reduction in the number of fires from 110 to 60. In North Násik there were 11 fewer cases of illicit grazing taken into Court which the Divisional Forest Officer explains as due to the success of the prosecutions in the last year resulting in less crime.

The number of cases compounded increased by 612, chiefly due to the increased grazing offences in the Panch Maháls already alluded to.

Communal punishments were usefully employed, except that in Igatpuri range of the South Násik District it is reported that the doubling of grazing fees for bad protection had no effect, and the quadrupling of the fee is recommended.

Increasing value of forest produce and the yearly development of exploitation is rendering protection more difficult and all duties more exacting, so that the staff in the absence of any automatic scale of increase, or any increase for many years, has become quite inadequate to efficiently protect its charge. Six new ranges and twelve new rangerships are urgently required to avoid increasingly serious loss of capital. Proposals are before Government to effect this increase in efficiency without incurring present extra expenditure.

Illicit Fellings.

As noted last year mere figures are no index to the state of protection.

Panch Maháls.—There was a general increase in cases reported, East Dohad maintaining its character of exceptional badness. The vicinity of Native States on all frontiers renders protection in this district always difficult. The increase in the present year has already been noted as chiefly due to general dislocation of circumstances by scarcity.

The revision in the working plans should aid protection, economise labour, and be at once financially profitable while improving future capital.

Surat.—One serious case of unauthorised felling by a contractor has been referred to under "General Protection." Otherwise the protection was good and calls for no comment.

North Thána.—The Divisional Forest Officer reports as follows:—

"The increase in the total number of offences is mainly due to illicit fellings of valuable material, such as teak and tiwas. Notwithstanding this increase the work of the protective establishment was far from satisfactory and only a small percentage of offences were reported. In some grounds, for instance in Veoji and Boisar rounds, the round officers and guards rarely reported any offences though illicit fellings of teak poles were common.

This constant nibbling all along the coastal forests from the north of Umbergaon to the south of Máhim Táluka and in the vicinity of the Vaitarna river from Manor westwards greatly reduces the sale value of the coupes, in many cases by two-thirds or more.

In one closed coupe near Girgaon (Umbergaon range) during the past 4 or 5 years 176 teak shoots had been cut illicitly and no report made by the protective staff. In another instance near Manor 600 stumps of teak illicitly cut during the past five years or so were found on an area of 15 acres. This means that a good teak forest is practically destroyed. In some cases to avoid attracting attention by the strokers of the axe the thieves felled the trees with the saw and the stumps were burnt or uprooted to prevent detection.

With a view to improving forest protection the rangers' charges are being reduced and the number of ranges increased, but adequate staff to hold these charges is lacking."

Central Thána.—A decrease of 70 cases of illicit fellings is recorded, the Divisional Forest Officer remarking:—

"The decrease is certainly not due to any better protection or stricter supervision and there must have been a few cases which were either not reported or not detected. Owing to the transfer of the permanent Range Forest Officer and the delay of three months in the arrival of his successor, the staff must have got a little slack in detecting offences."

Put shortly it is the lack of adequate staff which is felt everywhere.

South Thána shows a considerable decrease in one range, which is entirely due to the ranger's slackness.

North and South Nasik.—There was some decrease due to other reasons than better protection.

Special measures to improve supply and thus reduce Unauthorised fellings.

Tahal Cutting.—General efforts to maintain this on an economical basis were satisfactorily continued.

Special Coupes.—The sale depôt system involving supply from special coupes was maintained and increased; though results are not marked at present and the system is rather costly, it will be maintained until found ineffectual.

Plantations for Firewood.—Seed from the Philipines of Leucæna glanca was not received; another application will be made. Good progress in Casuarina plantations in North Thána was made.

Central Circle.

The following table classifies the number of offences reported during the year as compared with those of the 3 previous years:—

•	Cases	takon	into C	Court.	Саявз	com; war	B ounde ned.	d and	l C	iees u	C ndetec	ted.	<u> </u>	9	G ₁	Grand Total.			
Division.	Injury to forest by fire.	Unsuthorized felling.	Grazing without permission.	Other offences.	Injury to forest by fire.	Unauthorized felling.	Grazing without permission.	Other offences.	Injury to forest by fire.	Unauthorized felling.	Grazing without permission.	Other offences.	Injury to forest by fire.	Unauthorized felling.	Grazing without permission.	Other offences.	1916-1916,	1914-1915,	
Cast Khán- dosh.	3	43	16	13	9	215	267	95	24	109	٤	4	29	367	285	119	793	796	
West ,	8	4	5	8	2	171	957	17	45	75	5	1	55	250	367 153	91 97	693 590	904 605	'
North	1	8	5	5	14	194	145	88	27	96	8	4	49	298 850	828	86	1,905	2,125	
aaoo	8	24	85	7	27	694	788	78	111	132	5	1	141 68	425	458	71	1,021	1,295	
iátára	9	6	13	•	14	354	445	6 T	43	66	<u></u>	1	43	731	339	160	1,273	· .	
adālož	6	150	10	48	5	832	324	104	32	249	5	8							
Total	30	! 935	84	79	64	1,960	2,326	449	282	727	20	19	376	2,923	2,430	547	6,275	7,201	
							,												
lverage of past three years.	52	251	116	59	82	9,577	2,225	549	267	787	19	9	403	3,609	2,353	610	6,975		ļ.

The total shows a decrease of 926 as compared with 1914-15, the decreases being under the heads of "Fires" (53), and "Fellings" (932), with increases of 3 and 56 under "Grazings" and "Other offences" respectively. Comparing the figures with the average of those of the three preceding years, the total decrease is 700, with an increase of 77 under "Grazing", and decreases of 26, 687 and 63, under respectively "Fires", "Fellings" and "Other offences".

Fires, felling and grazing offences are dealt with in detail later, and it will suffice to mention here that the first named decreased in the three Khándesh Divisions and Kolába, but rose in Poona and Sátára; the second decreased in every division, while the third decreased in West Khándesh and Sátára, but rose, though to trifling extents, in East Khándesh, North Khándesh, Poona and Kolába. The increase under other offences was mainly due to the detection of a large number of cases of encroachment on the forest boundary in Kolába.

Cases taken into Court numbered 428 as against 434 in 1914-15, the only noticeable variations being a decrease in Sátára, where the proper policy was more followed than perhaps had previously been the case of only dealing in this way with really serious offences, and an increase in East Khándesh consequent, it is reported, on refusal of offenders in many cases to compound.

Of the 425 cases disposed of during the year by prosecution, 400 or 94.6 per cent. involving 878 persons resulted in convictions, 25 or 5.4 per cent. involving 46 persons in acquittals: In two divisions, North and West Khándesh, the percentages were 100, in Poona 96.8, in Kolába 92.6 and in Sátára 90.8, all testifying to the care with which prosecutions were instituted and conducted. Punishments awarded are reported to have been generally adequate, except in one instance in Sátára in which the Divisional Forest Officer was compelled to represent to the District Magistrate that misplaced clemency towards offenders, apparently in the face of clear evidence of their guilt, and an unsympathetic attitude towards the Forest Department were making good forest protection an impossibility.

The number of cases compounded fell from 5,061 to 4,230; those which were disposed of by simple warning rose from 520 to 569; and in 1,098, as against 1,186 in the previous year, no offenders could be traced. The amount of compensation taken was Rs. 31,973, or an average of Rs. 3.5 per head from 9,056 persons.

The Central Circle being within the jurisdiction of two Commissioners, for convenience of review offences may be summarized as below:—

	East, West	n the Central and North K ona and Sátár	hándesh,	Divisions in the Southern Division :— Kolába.					
• •	1914-15.	1915-16.	+ or —	1914-15.	1915-16.	+ or —			
Total offences	No. 5,655	No. 5,002	— 653	No. 1,546	No. 1,273	- 273			
Fires Fellings Grazing Other offences	317 2,791 2,158 389	333 2,191 2,091 387	+ 16 - 600 - 67 - 2	112 1,063 269 102	43 731 339 160	- 69 - 332 + 70 + 58			
Cases taken into Court. Cases disposed of Percentage of convictions. Cases compounded	218 209 94·2 4,371	214 208 95·6	- 4 - 1 + 1·4 - 595	216 228 89	214 217 94·9	- 2 - 11 + 5.9			
Compensation taken	Rs. 26,517	Rs. 30,356	Rs. + 3,839	Rs. 2,569	454 Rs. 1,617	- 236 Rs. - 952			
Cases warned Offenders not traced	No. 276 790	No. 258 754	No. - 18 - 36	No. 244 396	No. 311 294	No. + 67 - 109			

Communal rewards and punishments were freely resorted to, and with generally good effect, but steady persistence in the policy for many years will be required to make the public realize that the proper protection of the forests is entirely in their own interests, for so far it is too often the case that an improvement in one year is followed by a lapse in the next, the continuance of the reward being taken as a matter of course rather than as an obligation for continued good behaviour.

In the Poona Division eight villages in Akola had their grazing fees enhanced by the Collector of Nagar for persistent thefts, while an improved attitude towards the forests led to the removal of the Javle-Baleshwar punitive police post. In Kolába for similar offences 6 villages were punished by enhancement of fees, or suspension of privileges, in one case permanent suspension. As a preventive measure, the system started some years back in Kolába of working several coupes for the special supply of fuel to the coast towns and villages has had good results. Provision is made for their requirements in fuel and timber for agricultural implements at fixed prices, and they no longer have to depend on the illicit trade in such material that formerly wrought havoc in the forests. The improvement in protection is patent to the eye, and is evidenced by the decreasing number of felling offences. In the year under report this decrease was 332 for the division, and the system is being extended as occasion demands.

Southern Circle.

The following statement shows the number and classification of forest offences reported during the year as compared with those of the previous year and with the average of the past three years:—

•	Tak	en into (Court	C	ompoun	ded.	[[ndetect	eđ.	Total.			
Nature of offence.	1915-16.	1914-15.	Average of past 3 years.	1915-16.	1914-15.	Average of past 3 years.		1914-15,	Average of past Syears.	1915-16.	1914-15.	Average of past 3 years.	
I.—Injury by fire	28	26	26	68	60	75	880	610	602	976	696	703	
II.—Unauthorized fellings	-67	149	159	2,455) 2,51 3 	2,605	876	Б31	526	9,888	3,166	3,289	
III.—Unauthorized grazing		65	57	1,323	1,407	1,376	13	19	14	1,357	1,491	1,447	
IVOther offences	Б	10	19	302	315	934	9	19	12	316	538	358,	
Total	111	243	254	4,148	4,296	4,390	1,278	1,172	1,154	5,537	5,711	5,797	

The total number of offences were less than those of the previous year and the average of the past three years by 174 and 260, respectively.

In all the divisions there was an increase in the number of fires and decreases under the other three classes of offences. The number of offences reported represents only a fraction of those committed, which is the reason for decrease to some extent; to a certain extent the decrease is also due to better protection of forest. Subordinates found guilty of neglect in reporting offences are duly punished, those vigilant in detection being, on the other hand, duly rewarded. Forest villagers are similarly rewarded for good protection of forests and punished for neglect or mischief. The joint responsibility for the protection of forests, thus placed on the forest villagers on the one hand and on the protective staff of the Department on the other is productive of good results.

The result of cases tried by Courts are compared in the following statement:-

	- 1	191	5-16.	1914	-15.	Percentage of acquittals			
Division.		Convictions.	Acquittals.	Convictions.	Acquittals.	1915-16.	1914-15.		
Kánara, N. D. Kánara, E. D. Kánara, C. D. Kánara, S. D. Kánara, W. D. Belgaum Dhárwár-Bijápur Ratnágiri		13 4 8 36 6 16 21	2 4 4 17 5 3 3	7 8 91 18 23 22 60 2	4 2 24 12 8 3 12	13·3 50· 33·3 32·1 45·4 15·8 12·5	36·4 20· 20·9 40· 25·8 12· 16·7		
Tota	al	105	38	231	65	26.6	22.		

A correct comparison between the two years' figures is not possible, since the figures of 1914-15 pertain to the old divisions and those of 1915-16 pertain to the divisions as reconstituted on 1st February 1916. There is, on the whole, a slight increase in the percentage of acquittals, which may be ascribed to want of care and experience in legal matters on the part of the prosecuting officials. In one case of acquittal in Kánara W. D. the Third Class Magistrate gave a wrong finding and neglected to call an obvious witness whose evidence would have procured a conviction. For this he was reprimanded by the District Magistrate. This officer again drew the attention of subordinate Magistrates to the necessity of appraising damage to the forests at its proper value.

There were four important cases during the year, 1 in Kánara E. D., 1 in Kánara S. D. and 2 in the Dhárwár-Bijápur Division. In Kánara E. D., there was a good deal of looting of small timber near the Dhárwár frontier. One serious case was detected and 38 offenders were convicted by Mr. Desai, the Mahálkari of Mundgod, and fined Rs. 770 in all. The forest guard, patil and some others were afterwards convicted of giving and taking bribes in connection with this case, and sentenced to imprisonment and fines. In Kánara S. D. there was a serious fraud detected in connection with house-building timber. A forester and a guard were prosecuted for taking bribes to hush up the case, the offender being allowed to stand as a witness for the prosecution. The guard was convicted and sentenced to 7½ months' imprisonment and Rs. 100 fine; the forester was discharged by the Sub-Divisional Magistrate, Kánara S. D., but was dismissed departmentally. In Dhárwár-Bijápur the kulkarni of Nandikeshwar, Táluka Badámi, was prosecuted and convicted for abusing the authority given to issue forest passes but was finally acquitted by the High Court. The people of Chimalgi in the same táluka assaulted the beat guard, as he tried to catch them in the act of smuggling forest produce; in this case the accused were sentenced under section 41 of the Forest Act for illicit removal of forest produce, and were sentenced to different terms of imprisonment for the assault. In the assault case sanction was also given by the Sub-Divisional Magistrate for the prosecution of a witness who gave false evidence to favour the accused.

The number of cases compounded and the compensation received are compared in the following statement:—

191	5-16.	1914	-15.	Average of p	oast 3 years.	
No. of cases.	Compen- sation.	No. of cases.	Compen- sation.	No. of cases.	Compen- sation.	
3,809	Rs. 21,397	3,951	. Rs. 21,381	3,763	Rs. 19,713	

Offenders in 334 cases were let off with simple warning.

Sind Circle.

The classification of forest offences detected during the year is given in the following prescribed form:—

	Cases	taker	into (Court.	Cas	Cases compounded.				Cases undetected.				Total.			
Division.	Firos.	Unauthorized fel- lings.	Illicit grazing.	Other offences.	Fires.	Unauthorized fellings.	Illicit grazing.	Other offences.	Firgs.	Unauthorized fel- lings.	Illicit grazing.	Other offences.	Fires.	Unauthorized fellings.	Illeit grazing.	Other offences.	10408
okkur	2	57	39	19	<i></i>	685	1,110	<i></i>	53	347			55	1,089	1,149	19	2,
arkana		6	8	1	•••	104	217	14	47	82		}	47	142	220	15	
lyderabad		14		2	•••	216	1,122	8	7	4			7	234	1,122	10	1,
erruck	6.	, 20	11	· ***	1	148	250	1	51	9	**1	 :	58	177	261	٠ 1	}
Total of 1915-16	8	97	53	22	1	1,153	2,699	23	158	892			167	1,642	2,752	45	14.
Total of 1914-15		68	14	23		838	1,851	. 72	46	368	٠.٨	7	46	1,269	1,865	67	ł
verage of past three years.	4	67	16	16	2	686	2,352	83	116	262	٠	4	121	1,015	2,368	53	

The total of cases is greater by 1,369 than that of 1914-15 and 1,049 more than the average of the past 3 years.

Cases compounded rose to 3,718 from 2,639 while the amount of compensation accepted was Rs. 12,919 as compared with Rs. 8,886. The average amount accepted per case was Rs. 3-7-7 as against Rs. 3-5-10.

Under cases compounded there is an increase of 315 under unauthorised fellings, almost entirely in the Sukkur Division where the staff have shown vigilance owing almost entirely to the Divisional Forest Officer's own energy. Illicit grazing cases have risen by 848. The abnormally low inundation and the absence of rain in the hills affected the supply of grass and grazing and caused an extraordinary influx of cattle into forests, the hill tribes often trying to evade the payment of the usual fees and to graze in closed compartments. Undetected cases rose from 416 to 550, the principal increase being due to fires lighted largely to obtain early grazing.

In 153 cases offenders were warned and discharged. There were 78 such cases in the previous year.

The offences taken into Court are detailed below:-

Pending from last year Cases of the year

Total ... 210

Of these 154 were decided during the year as against 102 in the previous year, one was compounded and one was withdrawn, leaving 54 pending at the close of the year. Of the 154 cases 135 resulted in conviction and 19 in acquittal, the percentage of acquittal being 12:34 as against 14:70 in the previous year. The percentages of acquittals in Sukkur, Lárkána, Hyderabad and Jerruck Divisions were 13.7, 20, 7.69, 6.9 as compared with 18.9, 16.6, 3.84, and 5.9 in the previous year.

Eight fire cases were taken to Court during the year. The results were as follows:--

No. of cases. Division.

Result

Remarks.

- Sukkur
- .. (i) Acquittal.

(ii) Case pending.

- Jerruck
- .. (i) One month's imprisonment.
- (vi) One case pending.
- (ii) 21 days' imprisonment. (iii) 15 days' imprisonment and · Rs. 25 compensation.
- (iv) 3 months' rigorous imprisonment.
- (v) 2 months' rigorous imprisonment.

There were 14 prosecutions laid for assault and obstruction of forest guards in the execution of their duty. In these 4 convictions were obtained, 1 acquittal, and 9 are pending (8 of these in the Hyderabad Division). In the Lárkána Division one assault resulted in the death of the guard; but the evidence being insufficient to convict on a charge of murder, only a month's imprisonment was inflicted. on the chief offender.

(b) Protection from Fire.

Northern Circle.

Prescribed Form No. 15 shows the number of fires and their origins.

On the whole fire protection was satisfactory, the only material increase was in North Násik and there the area burnt was mostly hill tops and grass lands.

Panch Mahals.—As already noted, the fires and area burnt were only half the usual figures due to local scarcity.

Surat.—Protection was good.

North Thana.—The number of fires and area burnt were about the average. The presence of the Divisional Forest Officer in South Mahim prevented the area burnt being greater owing to that officer taking steps personally to make the villagers render assistance in extinguishing fires.

Central Thána showed a large decrease in the number of fires and area burnt, the reason being given as the disappearance of dead bamboos. Probably the presence of bamboo seedlings also rendered the forests less inflammable, and early rain contributed to the same result.

South Thána figures were practically the same as last year. The Divisional Forest Officer writes as follows:—

"Results are exactly the same this year. Out of a total of 11,625 acres burnt, 7,277 of these were in Shahapur range.

In order to try and find out the causes of these fires undersigned camped in the Tansa forests during the Shimga holidays, about which time most of the fires occur.

The number of fires and the mysterious way in which they originated were very extraordinary. On one day three different fires started from the heart of the forest within a mile of undersigned's camp, and nearly every day a new fire broke out in a fresh place.

On one occasion the report of a gun was heard quite close, but in no case could any offender be found.

The fire guards (local Thákurs) always promptly reported the fires and went for assistance, but declared they never met anyone in the forest before or after a fire.

The report of the gun and the fact that the forests were clearly being ignited in a systematic and thorough manner pointed to wilful incendiarism, and facts have since come to light which help to solve the matter. The local Thákurs, some of whom have been employed for years as fire guards, are the culprits themselves. Hence the reason why no offender is ever caught. The forests it seems have been regularly burnt and shikarred for years either by or under the protection of the fire guards and their friends.

In the light of this knowledge undersigned hopes to be able to take steps next season to improve matters. The harm that has been done in Tansa is very great. Hundreds and possibly thousands of standing teak trees are burnt to the ground every year."

South Násik shows some reduction in the number of fires but a considerable increase in area burnt. Out of a total of 68 fires, 61 occurred in grass kurans of Dindori, Násik and Igatpuri and, as the Divisional Forest Officer remarks, "must be due wholly or partly to malice and enmity among the grass contractors and villagers." Only 7 fires (burning 1,962 acres) occurred in forest proper.

North Násik shows a large increase in the number of fires and area burnt, but the Divisional Forest Officer explains that the area burnt is chiefly hill tops and other areas without value.

The following statement required by Government Resolution No. 248 of 12th January 1904, shows the area protected:—

	Total forest	Extent of valuable		Extent of	Exten	t of forest b	ournt.
Division.	area of the division in charge of the Forest Department.	tection from	Proportion of valuable forest which has been continuously protected from fire for 5 years.	naturally	Open forest.	Closed forest.	Total
	Acres.	Acres.	Acres. Per cent.	Acres.	Acres.	Acres.	Acres.
Panch Maháls urat North Thána Central Thána outh Thána North Násik outh Násik	2,12,200 4,63,507 2,14,149 2,38,886 2,18,333 3,42,745 3,94,224	2,12,200 4,63,507 2,14,149 2,36,335 2,08,356 2,37,672 3,13,160	1,61,367 or 75.9 4,56,094 or 98.0 2,02,079 or 94.3 2,08,585 or 88.3 1,75,676 or 84.3 2,08,249 or 87.2 2,81,436 or 89.9	1,500 4,356 49,920	4,026 32 2,496 1,501 5,019 3,655 2,191	848 1,062 1,444 1,240 6,606 5,349 3,107	4,874 1,094 3,940 2,741 11,620 9,004 5,298
Total	20,84,044	18,85,379	16,93,486 or 89·8	55,776	18,920	19,656	39,576

Central Circle.

The number of fires decreased by 33 (from 465 to 432), and the area burnt by 30,122 acres (from 184,593 to 155,471), a state of affairs which still leaves much room for improvement. Separating the figures for the Southern and Central Revenue divisions, the former shows 47 fires burning 833 acres in Kolába, as against 112 burning 1,565 in 1914-15, the latter 385 burning 154,638 acres as against 353 burning 184,028, the majority of the area burned as usual being in Khándesh.

Poona and Sátára call for few comments, for comparatively speaking their forests contain little grass, while there is keen desire on the part of the public to utilize to the full what grass there is. In Poona it may be noted that the increased number of fires (146 as against 88), and the increased area burnt (4,964 acres as against 2,691), mostly occurred in forest lands permanently or temporarily leased to the Military Department, and were in all probability deliberately caused by the villagers, who also withheld in such cases the assistance which, in areas in charge of the Forest Department, they as a rule readily give. The erroneous impression that Government property can be destroyed with impunity, in whose-so-ever charge it may be, is being adequately dealt with by the Collector. In Sátára also there was a small increase in the number of fires and area burned, the latter for want of ready assistance from villagers for which punitive measures have been imposed.

The case of the three Khándesh divisions is very different, and it must be admitted that the fire problem here is still far from solution, though progress has undoubtedly been made within the last ten years. The difficulties arise, partly from natural factors such as immense areas of practically uninhabited country, covered with highly inflammable grass, partly from the careless habits of a less civilized people, partly from a system of administration which has hitherto allowed the unrestricted access to the forests, at their most inflammable time, of privilege-holders under the Tapti Code and permit-holders from the non-privileged villages of the Tapti plain. This system it is hoped to change, when a corresponding improvement in fire protection may be hoped for. With the example of the Surat Dángs before one, it cannot be said that the Khándesh problem is incapable of solution.

East Khandesh.—The number of fires was 72 as in the previous year, but the area burnt rose from 44,100 acres to 70,244. As usual the Division far exceeds all others in one unsatisfactory feature, viz., bad work by some subordinates and the number of fires caused by carelessness in burning fire lines, there being no less than 17 cases of this, with a resulting area burned of 24,181 acres. The lack of continuity in administration, of which this division for the last seven years has been the victim, and to which the recent transfer to the Indian Army Reserve of officers of Mr. Dalley has again added, is undoubtedly also responsible to a large extent for this unsatisfactory feature, for with constant changes in personnel and no knowledge of either staff or people by superior officers, work inevitably suffers. Since September 1909, the division has changed hands 15 times, 7 different officers have held charge, and none for a longer period than 14 months continuously. Under such conditions progress is hardly to be expected. And when it is pointed out that the East Khandesh Satpuda forests are practically uninhabited, are situated on most difficult country, are almost waterless in the hot season, that the grass grows several feet high, and that help in burning lines or in extinguishing fires has to be sought from villagers living some miles away in the plains who, being non-forest villagers, give help with reluctance, it will be seen that successful protection is a matter of difficulty. The Divisional Forest Officer in the case of one fire worked for 4 days almost continuously.

Reference was made above to a contemplated change in the system of working the forests; this applies particularly to East Khándesh, for which a revised working plan will shortly be submitted to Government. In it stress is laid on the yearly destruction of forest growth which is going on, and on the impossibility of effecting any improvement unless fires can be kept out, which can never be the case until people, living miles from the forest, and having no interest whatever in thier protection, are prevented from wandering in them at will in search of grass and fuel at the most dangerous time of the year. The plan, while providing for all the legi-

timate necessities of the public, will curtail to some extent the license hitherto enjoyed by privileged and non-privileged villagers, but will at the same time enable the Forest Department to work at fire protection with some reasonable hope of progress; and as such it is hoped that the measures proposed will meet with Government approval. Rewards to deserving villagers by the Conservator, and punishments to those that failed to help, have been freely resorted to in the past few years, and with some effect, but nothing but a change in system as indicated above, and the creation of In-Forest Settlements which will provide the necessary labour, can be of much avail.

North Khándesh showed a considerable improvement on last year, the number of fires falling from 71 to 42, and the area burnt from 103,901 acres to 61,261, the larger portion of which was fortunately in inexploitable areas. This is a division where under systematic measures there has been a very marked improvement, for prior to 1909 the forests were as a rule burned from end to end, whereas in the year under report the percentage of failure in the area sought to be protected was 11.02, and has been as low as 5.03 in 1911-12, 1.71 in 1912-13, and 9.11 in 1913-14. Personal influence and continuity of administration under two Divisional Officers only and the fact that the forests are not so much resorted to for grass by outsiders make the problem easier than in East Khándesh, but the drunken Bhil in his peregrinations from village to village at Holi time is an ever present danger, and a fire once started on the inaccessible cliffs in Taloda, Sháháda and the Akráni has almost to be left to burn itself out. Such fires accounted for the greater part of the area burned in 1915-16. For good assistance numerous free grants of money and wood were given to Akráni patils and others and 10 villages were given free grazing; while for the reverse 4 villages had their privileges altogether suspended and 11 had to pay double grazing fees.

West Khándesh.—Here also there is steady improvement, the result of system, strenuous supervision, and communal punishment and reward, while it is interesting to record that the large Deomogra reserve, the most valuable area in the division, though inhabited and surrounded by Bhils, has mainly through the personal influence of a Bhil round forester; remained practically untouched by fires for many years, with most evident benefit to the forest growth. The Bhil therefore is not an insuperable obstacle to progress. The number of fires in the division fell from 78 to 57, the area burnt from 31,572 acres to 17,174, and the percentage of failure in areas under special measures from 14.4 to 6.79.

For the whole circle the area under special protection was 2,392,455 acres, and the cost was Rs. 18,468; 2,236,984 acres or 93.5 per cent. were saved. Of the 155,471 acres burnt 22.2 per cent. was closed forest; the remainder open.

The statement required by Government Resolution No. 248 of 12th January 1904 is given below, details in column 4 being omitted. Without exact maps being kept, showing each year the site of every fire that occurs, it is an impossibility to say what areas have, or have not, been continuously protected. Such maps are not kept, and hence any figures would be valueless.

m-t-t-t	Total forest area of the	Extent of valuable forest for	Proportion of valuable	TOLGAR		ent of forest uring the ye	
Division.	division in charge of the Forest Department.	which con- tinuous pro- tection from fire is desirable.	forest which has been continuously protected from fire for 7 years.	nature lle	Open forest.	Closed forest.	Total
	Acres.	Acres.		Acres.	Acres.	Acres.	Acres.
East Khándesh West Khándesh North Khándesh Poona Sátára Kolába	4,88,615 3,81,360 5,55,766 3,66,897 3,30,490 2,69,327	3,52,898 2,06,107 5,55,766 2,19,090 2,29,953 2,69,327		1,01,752 1,00,569 5,553	50,774 11,413 55,963 761 420 595	19,460 5,761 5,298 4,203 585 238	70,234 17,174 61,261 4,964 1,005 833
Total	23,92,455	18,33,141		2,07,874	1,19,926	35,545	1,55,471

Form No. 15 analyses the origins of fires. Of the total of 432, 134 were from causes unknown, 164 were due to carelessness of workmen or travellers in the forests, 10 originated from railway engines, 23 from faulty departmental work, 42 came from outside forests, generally from ráb burning, while 59 are said to have been malicious or intentional, though direct evidence of the same is generally wanting, as indeed it is in most cases of fire, whether accidental or intentional. In 30 cases only was there sufficient evidence to warrant the prosecution of offenders.

Southern Circle.

The system of fire protection remained the same as in previous years. The following statement shows the areas over which protection from fire was attempted, the areas successfully protected, the cost per square mile and the percentage of success as compared with that of 1914-15:—

Division (as readjusted on 1st February		empted otected.	Area	bernt.	Ares ac Drote		Perce of su	ntage ccess.	Co	st.	Bquar	per e mile ected.
1916).	1915-16	1914-15,	1915-16	1914-15.	1915-16.	1914-15.	1915-16.	1914-15.	1915-16	1914-15,	1915-16.	1914-15
_ 	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.
Kánara, N. D	259.478	356,533	74.181	11,998	185.297	844,535	71.5	96-6	3.426	4,850	11.8	9
Do. E.D	410.023	417,788	45.201	6,001	364.822	411.787	90-	98-6	4.662	5,451	8.3	8-5
Do. C. D	182.397		24.405	•••	157.992		86-6		889	•••	8.6	
Do. S. D	453,080	14,517	8,253	58	449.827	14,459	99.3	99.6	508	473	-8	20-5
Do. W.D	535.823	199,815	23,100	618	512.723	199,197	95.7	99•7	1.493	2,027	1-8	6-5
Belgaum	401,370	400,397	22.256	8,961	379.114	996,436	94-5	99.01	6.030	5,677	10·2	9-2
Dhárwár-Bijápur	51.616	{ 143,395 1,4032	8.640	{10,160 432	42.976	{ 113,235 13,600	83,3	{92·9 96·9	528	{ 2,117 207	7.9	{ 10·2 9·9
Ratnágiri	12.054	12,052	1	10	12.053	12,043	100	99-9	. 28	80	1.5	1.6
	<u> </u>	<u> </u>	<u></u>		<u>'</u>		' -	!			 -	
Total		1,558,529	201,037	83,238	2.104.804	1,525,291	91.3	97-9	17.564	20,832	5-3	8.7
	or 3,603	or 2,435		l	3.288	2,383			•			-
	Sq. m.	Sq. m.	<u> </u>	1	Sq. m.	Sq.m.		<u> </u>	1	1	1	[

The figures for 1914-15 in the above statement refer to the old divisions and those for 1915-16 refer to the new divisions and a comparison between them would not be accurate; the total figures for the circle, however, give an approximate idea of the work done and the results attained. The area in which protection was attempted during the year was 3,603 square miles against 2,435 square miles during 1914-15, or an increase of about 50 per cent. Of the area under protection 3,288 square miles were successfully protected as against 2,383 during the preceding year.

In Kanara the year was the worst for fires in the last 10 years, and this was all the more disappointing as the previous year had been the most successful ever known. The causes assigned are an exceptionally dry-hot weather and the large numbers of dead bamboos. These causes, added to the continued apathy of the villagers, made the conflagrations unusually extensive. The damage was specially great in the teak forests round Tamange and Gund, where material for thousands of sleeper pieces has been entirely wiped out. The danger from dead bamboos will continue for several years to come.

In Belgaum fire protection was satisfactory in the Gokak, Belgaum and Khanapur west ranges, but was extremely bad in the Khanapur central and east ranges, where large areas were maliciously burnt resulting in enormous damage. With a view to remedy matters and secure the co-operation of the villagers the Divisional Forest Officer has made a special report to the Collector and it is hoped the matter will receive due attention.

In Dhárwár-Bijápur also the area burnt was larger than in the previous year on account of the hot weather. In Dhárwár forest boundary lines are cleared by villagers under circular orders of the Collector since the year 1907: the Collector of Bijápur has been requested by the Divisional Forest Officer to introduce similar practice in Bijápur. Co-operation of villagers is the most important tor in fire protection.

The policy of rewarding villagers for good protection or punishing them communely for bad cases was continued during the year as under:—

		Number of villages.										
Division.			ree or concession eneral protection.	Punished for bad protection by enhanced grazing fees.								
	-	1915-16.	1914-15,	1915-16.	1914-15.							
Kánara, N. D.	3	58	58	21	24							
Do: E.D.	••	63	86	70	32							
Do. S. D.				19	18							
Do. W. D.		6	1	80	11							
Belgaum •		77	94	239	124							
Dharwar-Bijapur		14	14	37	37							
Total		218	253	466	246							

Besides the above communal awards, patils and other villagers in Belgaum and Kánara were rewarded with turbans, ornamented coats, etc., for assistance rendered in general protection of forests.

In Kánara E. D. one forester was reduced, one guard dismissed and several were fined for slackness in fire protection. In Kánara W. D. one forester and one guard were fined.

Form No. 15 shows the number and origin of fires; the causes shown therein are more or less speculative. The total number reported during the year was 976 as against 696 during the preceding year. Of the cases reported only 9.8 per cent. were detected, and 2.8 per cent. prosecuted. Details are given in the following statement:—

Div	ision.		Total number of fire		mber ted cases.	Percentage of detected	Result of prosecutions.
			offences.	Pro- secuted.	Com- pounded.	, cases.	
Kánara,	N. D.	••	179	9	14	. 12-8	Conviction was obtained in 5 cases, 1 case was acquitted, and 3 were pending at the close of the year.
Do.	E. D.	••	135	3	- 14	12.6	In one case the offender was fined Rs. 25: 2 cases were acquitted.
Do.	C. D.	e -1	167	1	10	6.6	Pending.
Do.	S. D.	• •	88	3	11	15.9	In one the offenders were acquitted and 2 cases were pending at the close of the year.
→ Do. I	W. D.	`.	136	2	3	3.7	In one case the offender was sentenced to 15 days' rigorous imprisonment, another case was pending. Out of the 5 cases pending at the opening of the year 2 were written off as the offenders could not be traced. Two were acquitted and in one the convicted offender was fined Re. 1.
Belgaum	•	•	185	10	,	13 0	In one case the offender was sentenced to 6 weeks' rigorous imprisonment. In one case the offender was sentenced to 2 months' simple imprisonment. Eight cases were pending; of the 3 cases pending at the opening of the year 2 were acquitted and in 1 the offender was sentenced to 1 month's rigorous imprisonment.
Dhárwár	-Bijápt	ur	. 85		2	2.4	The l case pending at the opening of the year was withdrawn, the offender having absconded. As the Magistrate did not keep the man in custody, he was warned by the Sub District of the year.
Ratnágir	i ·	[1	• •	·		by the Sub-Divisional Magistrate.
	Total		976	28 or 2.8 per cent.	68 or 7 per cent.	9.8	

The statement showing areas enjoying continuous immunity from fire for a period of 7 years, prescribed in Government Resolution No. 248 of 12th January 1904, is not given here, as it was found that the areas shown annually in previous years' reports had been calculated on a wrong basis. It is hoped that correct figures will be available in the next annual Report.

Sind Circle.

The results of the year and last year are as under:—

Division.		origir depa fire v	Fires lating in rtmental conser- ancy rations.	cros	ires ssing or fire ces.	carele or ac by ou on unk	due to essness cident etsiders to nown uses.	natin inten	f origi- g from tion or lice.		tals 915-16.		tals 914-15.
		No.	Area burnt.	No.	Area burnt.	No.	Area burnt.	No.	Area, burnt.	No.	Area burnt.	No.	Area burnt.
			Acres.		Acres.		Acres.		Acres.	· -	Acres.	<u> </u>	Acres.
Sukkur	••	••	••	4	349	47	2,730	4	565	55	3,644	. 9	88
Lárkána	••	••	••	••		47	1,247			₹ 47	1,247	13	360
Hyderabad	••	••.	••	••.		7	242		••	7	242	1	29
Jerruck	٠.	3	80			21	446	30	792	54	1,318	23	569
Total for 1915-1	6	3	80	4	349	122	4,665	34	1,357	163	6,451		••
Total for 1914-1	5	3	100	1	1	27	519	15	426	••		46	.1,046

The year was a bad one for fires, the total number having risen from 46 to 163, and the area burnt from 1,046 to 6,451 acres as compared with the year previous.

The large number of fires was due to a very low inundation during the year which resulted in the growth of large clumps of dry sar and kanh grasses which on poor soil become dry and easily ignitible; and máldárs were not slow to perceive that there would be an advantage to their cattle in its removal. In consequence of the failure of the rains in the hills distressed graziers from Kohistan and from Cutch swarmed into the forests of lower Sind and remained there until June, firing the grass now and then in the hope of obtaining a little green fodder.

New fire tracing work done has been recorded in the Jerruck Division where 22 miles were cleared at a cost of Rs. 27 per 50-feet trace and Rs. 60 per mile for those 100 feet in width. Other new work was done over 16 miles on traces varying in width from 30 to 100 feet with the gratuitous assistance of Zamindars and cattle owners. In Larkana 11½ miles of new boundary lines of forest recently added were cleared at a cost of Rs. 222. In all divisions forests have been divided into half mile squares and these lines were kept clear without expense. A fire tracing scheme has been ordered to be submitted in October for each division detailing the work for the ensuing working season.

Concessions in the shape of free grazing and small free grants of timber have been made to persons who have rendered active assistance in fire operations.

Fire watchers were entertained in the Mulchand, Tatta and Shah Bunder ranges of the Jerruck Division.

The statement required by Government Resolution No. 248, dated 12th January 1904, regarding areas enjoying continuous immunity from fires for a period of seven years, is given below from 1909-1910 (vide Government Resolution No. 4081 of 22nd April 1908).

<u></u>	. <u> </u>		Area of valuable forest for	Proportion of valuab		xtent of forest		nt of forest b uring the yea	
Division.			which continuous protection from fire is desirable.	forest which has bee continuously protecte from fire for 7 years	n n edii	aturally mmune rom fire.	Open.	Closed.	Total.
	'	Acres.	Acres.	Acres. Per cent.			Acres.	Acres.	Acres.
Sukkur		291,315	291,315	259,731 or 89·1	h	ed (2,477	1,167	3,644
Lárkána	٠.	148,275	148,275	144,565 or 97·4	.	formed has.	1,240	7	1,247
Hyderabad	••	156,476	156,476	154,894 or 98.9	· [Newly form kachas.	157	85	242
Jerruck	••	146,420	102,783	84,232 or 81.9	, }	Ñ	1,314	4	1,318
Total	•	742,486	698,849	643,422 or 92.06			5,188	1,263	6,451

(c) Protection from Cattle.

Northern Circle.

The following statement shows the number and kind of animals impounded from open and closed forests respectively compared with previous years:—

Division.		s and locks.	Baff	aloes.	Go	ats.	She	юр.		er ani- als.	То	tal.	d total 915-16.	d total 914-15.
	Open.	Closed.	Орев.	Closed.	Ореп.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Grand for 1910	Grand for 1914
Panch Maháls	390	11,818	229	3, 552	4,076	2,401	323	248	69	155	5,087	18,174	23,261	10,765
Surat	129	87	55	23	122	•••		¦		•••	306	110	416	558
North Thána	14	1,423		231	934	375					948	2,039	2,987	2,636
Central Thána	292	1,712	55	166	· 438	141				···	785	2,019	2,804	3,532
South Thána	76	2,031		434	179	764)		255	8,229	8,484	3,470
North Násik		4,138	\	50	4,735	3,730	2,864	965		55	7,599	8,938	16,537	20,697
South Násik	382	6,766	8	554	2,062	1,088	370	253		1	2,822	8,662	11,484	10,176
Total, 1915-16	1,283	27,985	347	5,010	12,546	8,499	3,557	1,466	69	211	17,802	43,171	60,973	
Total, 1914-15	1,242	22,343	186	3,876	14,329	4,167	3,997	1,746	10	138	19,764	32,270		52,034
Average of the past three years	1,367	21,869	840	9,543	12,930	4,182	5,342	2,714	46	126	20,025	35,766	55,791	

The total increase is entirely explained by the increase in the Panch Mahals, accounted for below:—

Panch Maháls.—The number of cases of illicit grazing and the number of cattle affected were both double last year's figures. The reason seems two-fold, viz., an influx of large numbers of cattle from the surrounding areas of scarcity coupled with the necessity of protecting the local grass crop which had to be reaped for fodder. While the excess impoundings must be regretted, the fodder rendered available (estimated at 100 lákhs pounds) for the ensuing hot weather was most important. This will be the more evident when it is remembered that unless reaped, the greater portion of such fodder is absolutely lost. To give the utmost possible relief all forests except two coupes (instead of ten) out of thirty in each block were thrown open to grazing in the month of March.

Surat.—Impoundings were normally few.

North Thana.—Impoundings were normal and comparatively few. Only 14 animals other than goats were impounded from closed forest and 45 per cent. of the total cattle impounded were goats.

Central Thána.—Impoundings showed a material reduction. The Divisional Forest Officer fears that this reduction does not denote improved protection and there is every reason to know that grazing rules do not press hardly on the

people. There is some reason to think that figures of former years were inflated by rewards given for grazing offences detected. This system was objectionable and has been stopped where it existed. The total number of cattle impounded was only 5 per cent. of the number given free grazing, 15 per cent. being goats.

South Thána.—While the total number of cattle impounded was the same as last year, there was a marked decrease in Sálsette due to slackness. The Divisional Forest Officer remarks of other ranges that greater attention to cultural operations has stimulated guards to take more trouble to protect their forests. This is very satisfactory.

South Násik.—The figures for impoundings for the year call for little comment except that slight increases in Násik, Sinnar and South Peint ranges were largely off-set by a considerable reduction in the Dindori range, the latter factor being due to some modification of grazing arrangements in the village of Wani.

North Násik.—The number of animals impounded showed a material decrease due, it is stated, to greater facilities given to the people. More than 75 per cent. of the animals impounded were sheep and goats. Only sheep and goats were impounded from open forest. 20 per cent. fewer cows, bullocks and buffaloes were impounded from closed forests, while the number of goats impounded from closed forest rose 75 per cent. These facts go to show that the incidence of impounding is satisfactory.

Central Circle.

Of the total forest area of 5,437 square miles, 624 were closed to all animals throughout the year, 121 for part of the year, the former representing areas under regeneration, the latter the areas in Poona and East Khándesh which are primarily worked for fodder, and in which grazing is allowed in the hot weather after removal of the grass crop and when pasturage is so badly needed. 2,993 square miles of forest proper were open throughout the year for grazing of horned cattle, while sheep and goats were allowed solely in 1,699 square miles of pasture forests.

The following statement compares the numbers and kinds of cattle impounded from open and closed forest respectively, the total impoundings for the jurisdiction of the Commissioner, C. D., being 46,820 of which 14,491 were from open forest and 32,329 from closed, as against 46,025, 18,287 and 27,738 in 1914-15. For the circle the noticeable point is that while impoundings of horned cattle have increased by 6,715, those of sheep and goats have decreased by 5,505. The net increase for the year, including all animals, is 1,355; impoundings of horned cattle found grazing in open forest without a permit took place only when the owners refused to pay the fees. Each division receives separate comment below:—

Statement of Impoundings.

Division.		s and locks.	Buf	faloes.	Go	s.ts.	Sh	eep.		her nels.	To	tal.	Grand total
	Open.	Closed.	Open.	Closed.	Open.	Сіовед.	Open.	Closed.	Орев.	Closed.	Open.	Closed.	1
		<u> </u>				900	eca	656		19	2015	8,315	11,560
East Khándesh	932	6,296	84	1,049	1,482	309	663	656	84		3,245		
West Khandesh	! 	5,825		609	1,671	30	882	870	13	145	2,566	7,479	10,04
North Khandesh	115	6,850	57	602	440		•••			18	612	7,470	8,089
Poons	948	4,569	198	1,077	2,603	670	1,118	286	90	73	4,887	6,675	11,562
Sátása	100	. 1,980	***	950	822	17	2,259	137	,	6	3,181	2,390	5,511
Kolába	36	2,339	2	470	688	162	9 5	431	454	4	751	2,995	3,746
Total, 1915-16	2131	27,859	341	4,050	7,706	1,208	4,947	1,949	117	258	15,249	35,324	50,566
Total, 1914-15	- 011	23,380	63	3,412	10,047	2,505	8,198	565	48	189	19,167	30,044	49,911
Average of past three	1,809	22,704	164	3,589	9,972	3,805	8,699	1,286	196	954	20,841	31,639	59,480

East Khandesh.—Impoundings of horned cattle both in open and closed forest increased, a result which is partly attributable to contractors of areas sold for grass-

cutting seeking to minimize the losses that a poor grass season undoubtedly caused them by the deliberate admission of cattle on payment into the areas in their charge.

West Khándesh.—Showed a decrease all round.

North Khandesh.—Showed an increase of 2,706, mostly in horned cattle, the result partly of a deficiency of grass in open forest owing to the poor rainfall leading to trespass in closed forest, partly to a large influx of cattle into the division, partly to areas due for closure under working plan being nearer to villages than previously.

Poona.—Sheep and goat trespass largely decreased, but impoundings of horned cattle from open forest increased from 430 to 1,146, the offenders being not so much forest villagers as inhabitants of alienated villages or of the Bhor State, who deliberately preferred to have their cattle impounded rather than pay the forest fees. The Collector of Nagar in reviewing the divisional report noted that impoundings in Akola were still heavy, but added that he had satisfied himself that the plantations in which the trespass took place were reasonably planned and that their conservancy must be rigidly insisted on.

The Poona Division exhibits to a notable degree the persistent attempts that are made by the people to evade the Government grazing dues, no less than 11,683 cattle being paid for after the prescribed date, and then only on their being caught in the forests and taken to the villages. This habit entails endless extra work on the staff, and it would be a good thing to check it by an order from Government that such attempted evasion would entail the levy of a double fee.

Sátára.—The total impoundings decreased by 2,906, the result mainly of the heavy punishments inflicted in 1914-15 for sheep and goat trespass and the consequent diminution of this class of offences. Nevertheless it is to be feared that many such offences go undetected, and the only remedy is to raise pound fees till the graziers realize that it is more to their advantage to avoid forest areas altogether than to risk their animals being impounded. The scanty Sátára forests can ill afford the destruction caused by these animals.

Kolába.—Showed a small increase due to new blocks coming under working, thus creating fresh centres of closure.

Southern Circle.

The details of area open and closed to grazing are given in Form No. 16. An abstract is given below:—

Year.	Closed to all animals for whole year.	Closed to all animals for part of year.	Open to all animals (except browsers for whole year).	Open to all animals including browsers for whole year.
	Per cent.	Per cent.	Per cent.	Per cent.
1915-16 1914-15	15·3 16·7	0·3 · 0·8	78·8 76·5	5·6 6·0

The number of cattle that grazed in the forests during the year and in the preceding two years are compared in the following statement:—

Year.	Horned cattle.	Sheep and goats.	Other enimals.	Total.
1915–16	468,991	6,328	704	476,023
1914–15	462,441	2,135	739	465,315
1913–14	434,899	2,182	400	437,481

The following table prescribed in Government Resolution No. 4081 of 22nd April 1908 gives the comparative details of cattle impounded for illicit grazing:—

Division.		s and ocks.	Buffs	loes.	, Go	ats.	Sh	юр.		her nais.	То	tal.	Total open and closed	Total open and closed
	Ореп.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	for 1915-16.	for 1914-15.
Kanara, N. D	24	1,297	6	554	***	84	•	10	• • • • • • • • • • • • • • • • • • • •		30	1,945	1,975	1,766
Do. E.D	*-	691	· •••	228		57	·					986	986	930
Do. C. D	•••	- 98	 .	7	202	28					202	131	333	•••
Do. S. D	28	79	7	40	328		1	<i>,.</i> .	· Ade		364	119	483	338
Do. W. D		229	٠	179		\ 22				`	***	430	430	215
Belgaum ,	123	2,735	78	1,463	•••	116	•••	688	•••	•••	200	5,002	5,202	6,332
Dhárwár-Bijápur	126	1,113	18	270		2,055		222	•••	19	144	3,679	3,823	7,248
Ratnágiri	•	41			•••		···					41	41	20
Total, 1915-16	300	6,283	109	2,741	530	2,370	1	920		19	940	12,533	18,273	***
Total, 1914-15	482	8,298	127	3,223	172	2,803		1,692	4	48	765	16,064	•••	16,849
Average of past three years.	154	7,154	156	2,537	560	4,199	199	1,344	5	25	1,373	15,056		•••

It is satisfactory to note that impoundings have on the whole decreased in all divisions, which shows that people are beginning to learn that cattle are not to be grazed in closed areas or without payment of grazing fees in open areas. The only increase over last year's figure, noticeable under "Goats", impounded in open areas of Kánara Central and Southern Divisions, is ascribed to ignorance of grazing rules on the part of people in some cases and in a few others to their obstinacy in grazing goats in contravention of rules. It is hoped that a few judicious prosecutions will reduce the offences of illicit grazing.

Sind Circle.

Ninety-four per cent. of the forest area was open to the grazing of cattle except goats and camels. The latter animals were admitted to 621 square miles or 54 per cent.

Impoundings.

Sukkur and Hyderabad showed a decrease owing to more cattle having been registered by the maldars who found the yearly grazing fees much cheaper than those levied under the bi-monthly system. In Lárkána and Jerruck there was an increase in impoundings. In Lárkána many cattle without passes were found in the closed forests, while in Jerruck, where subordinates appear smarter in grazing collections, the increase in impoundings was almost entirely from cattle with passes for open forest which had been driven into closed forest. The cattle pounds mentioned as sanctioned last year to impound ogormal wild cattle were introduced.

The Divisional Forest Officer, Sukkur, reports that no animal was impounded in the gormal pounds of the A'bad range, and the Rohri Ranger attempted nothing.

The Divisional Forest Officer, Larkana, reports that 15 cows and 20 asses were impounded in Dosu forest semi-wild cattle pound; 16 cows and 4 asses in the Amrote forest gormal pound. No animal was impounded in Madeji forest.

The Divisional Forest Officer, Hyderabad, reports that gormal pounds were opened in Hala and Sakrand ranges. In all 8 cows were caught in such pounds during the year.

The success of the scheme will depend on a thorough campaign, to impound a few animals now and then will do no good.

The animals impounded during the year compared with those of the preceding year are shown in the subjoined table as required by Government Resolution No. 4081 dated 22nd April 1908, Revenue Department.

	Cows and bullocks.		Buffaloes.		Sheep.		Goats.		Camels.		Other animals.		Total.		Total of open and closed.	
Division.	Ореп.	Closed.	Ореп	Closed.	Open.	Cloked.	Ореп,	Closed.	Ореп.	Closed.	Ореп.	Olosed.	Ореп.	Closed.	1914-15.	1915-16.
Sukkur	304	1,813	ຼວ 138	627	3	6	2,181	1,322	392	284	97	34	3,115	4,086	7,997	7,201
Lárkána	190	745	160	294		133	336	1,708	29	482	14	22	729	3,384	3,039	4,113
Hyderabad	305	539	118	574	•••	24	159	692	61	96	24	211	667	2,129	3,637	2,796
Jerruck	776	459	179	94	1	203	120	914	55	1,099	50	105	1,181	2,867	2,627	4,048
Total, 1915-16.	1,575	3,549	595	1,589	4	366	2,796	4,636	537	1,954	185	379	5,692	12,466		18,158
Total, 1914-15.	_		<u> </u>	2,457	84	31	4,071	3,671	741	904	58	250	6,563	10,737	17,300	

Newly exploited coupes were fenced with the waste branch wood. The total length of new fences put up was $266\frac{1}{4}$ miles. Repairs to existing fences were made on $668\frac{1}{2}$ miles. This work was done free of cost with the help of maldars and coupe contractors.

(d) Protection against injuries from natural causes.

Northern Circle.

Creepers were cut as part of the duties of the staff.

Central Circle.

In Poona Rs. 108 were spent on eradication of prickly pear, and a small amount on similar work in Sátára. The construction of "Táls" to check erosion received attention in the former division, $1\frac{3}{4}$ running miles being constructed at a cost of Rs. 75, while in 4 villages the work was undertaken free of cost by the villagers, benefit thus accruing both to the forest and to the occupied lands adjoining.

Southern Circle.

Defoliating insects (Eupterote castanea and Hybloea puera) attacked the teak over a considerable area in Kánara Northern and Eastern Divisions in the month of October. In the teak nurseries of the Kulgi range, the grub of the rhinoceras beetle (Oryctes rhinoceros) attacked the seedlings and destroyed many. The grubs of these beetles were collected and destroyed as soon as they appeared. Elephants and pigs in the former division and bison and other wild animals in the latter did some damage to nurseries and plantations. Elephants are on the increase and not only damage forest growth but are dangerous to man. One wood-cutter was killed and since the close of the year a forester and a guard have been injured by the wild elephants. The Divisional Forest Officer, E. D., Kánara, reports that wild animals like to sit in the weeded nurseries which are comparitively free from ticks, and states that if they persist in doing so, sharp stakes will have to be driven into the ground to make things less comfortable for them. In Kánara, S. D., many casuarina trees under 5 years of age in the Kasarkod plantation died for want of sufficient moisture in the soil in the hot weather, and these were replaced by new seedlings from the nursery. In Bijápur prickly pear is spreading to such an extent that it has made the exploitation of some of the coupes difficult. Though the plant is a recognised cattle food in times of fodder famine, it is in ordinary years little used by people for fodder. Its eradication at Government expense is prohibitive; some of it along the demarcation lines was removed by guards and, in a few places, by villagers without cost to Government. Lantana is said to be spreading in the Haliyal teak pole area in Kánara, N. D., and in parts of Dhárwár. The Divisional Forest Officer, Dhárwár-Bijápur, reports that cutting of stems by guards makes matters worse by causing a larger number of coppice shoots. The floods of the Krishna and other rivers of Bijápur as usual cause some damage in kurans along their banks and the Divisional Forest Officer reports that planting of Zili (Sesbania Aegyptiaca) has been undertaken along the river banks with a view to minimise damage by erosion.

Sind Circle.

Frost was severe in Lower Sind and most of the seedlings in young plantations and sowing suffered. In Hyderabad big trees were affected upto a certain height and babul blossom and foliage suffered, also the mango crop in the Hyderabad forest gardens. The defoliating caterpillar did less damage than usual. In upper Sind owing to the low inundation rats increased and did considerable damage by gnawing the base of seedlings and young saplings.

4.—SYLVICULTURE.

(a) Natural Reproduction.

Northern Circle.

- (i) From seed.—With the exception of South Násik all divisions report satisfactory germination of seed. The future of the seedlings depends almost entirely on early recognition and attention by being freed from surrounding growth of grass and weeds, and where the locality is dry and exposed subsequent shelter from the sun is also required. Probably earlier recognition in the Násik District would prove that reasonable germination occurs there also. Satisfactory progress in the tending of natural seedlings is being made, but lack of establishment and inefficiency of the individuals is a great handicap.
- (ii) By coppice.—This is everywhere satisfactory, but future tending is most essential to success. Working plans are being revised largely to provide for this and for the tending of young seed produced saplings. We must be prepared for considerable extra outlay on establishment and works if our forests are to have the attention they deserve.

Central Circle.

The year was generally favourable for production and germination of seed, but successful reproduction by seed depends less on this factor than on subsequent ones, the difficulty being not so much to obtain a plentiful crop of seedlings as to protect those seedlings during the first year of their existence against drought, fire and grazing. Of the myriads that cover the ground after the first rains, few survive if left to themselves, except of course in the moister regions, while elsewhere even if fire and cattle be kept out, the hot-weather drought has fatal results. Fires and drought are the great obstacles in Khándesh, cattle and drought in Poona and Sátára. The system of mulching and shading natural seedlings in areas closed for regeneration, first introduced by Mr. Copleston in Kánara, has been adopted in the Central Circle and promises to give most valuable results. To give one instance only, it may be recorded that of 10,000 seedlings so treated in the Poona Division 70 per cent. survived the hot weather.

Southern Circle.

- (i) From seed.—It was a good seed year for teak, matti, honni, sissum and other forest trees, probably one of the best in the last 10 years. As a result of this, matti and honni seedlings particularly are coming up in great numbers; teak seed often lies dormant for a year or two. In the Dhárwár District, though Lantana has been found so be a pest in many respects, the ground covered by it is favourable for sandalwood growth; sandalwood seedlings are found to come up in larger numbers under Lantana than elsewhere.
- (ii) By coppice.—Regeneration by coppice shoots in past fellings was also good, though fires were a great hindrance and caused much damage, particularly in Belgaum. The Divisional Forest Officer, Kánara, N. D., reports the following interesting observation on the effect of fire noticed in two coupes of different ages in the same block:—
 - "Both coupes contained a rank growth of grass, but in the coupe where the coppice was older and stood about 12 feet high it was not damaged to any extent, while in the coupe with younger coppice about 5 to 6 feet in height a good many of the shoots were ruined and much damage was done. Moreover, in the former coupe where a number of teak seedlings and transplants had been tended and were about a foot high the plants had been burnt but

the roots had thrown up fresh shoots. These shoots, two months after the fire occurred (in the beginning of June), were as high as the original plants, and much more vigorous and healthy."

Mr. Dodgson is being asked to experiment with regard to this and submit a further report on the subject.

Sind Circle.

The area flooded during the year under report was only 271,093 acres against 568,856 in the previous year. In Upper Sind natural reproduction by coppice of bahan (Populus euphratica) and kandi (Prosopis spicigera) was good and babul (Acacia arabica) germinated well in flooded areas. The monsoon rain was very scanty and in Lower Sind owing to the deficiency of inundation water natural regeneration by seed was very poor. Severe frost in February did not improve matters but the young tree growth of recent years in many instances survived these unfavourable conditions, and there was no serious loss.

(b) Artificial Reproduction.

Northern Circle.

Sowing.—This was confined to a few babul areas and results were satisfactory.

Plantations.—The only systematic plantations are those for casuarina along the coast, operations of the year lying chiefly in North Thana. Results which had not been very successful up to date promise to be better in future as the result of the experience and personal effort of the present Divisional Forest Officer, North Thana.

Central Circle.

Regular Plantations.—Under this head may be included babul and casuarina forests, both of which depend for regeneration on artificial means. In East Khándesh 55 acres of exploited coupes were ploughed and broad-casted with seed, with generally successful results; in Poona 181 acres. In the Kolába casuarina forests, 17,577 seedlings, reared in nurseries, were planted out, the majority in the coupes just felled, the remainder to replace casualties in older coupes; results are very satisfactory, though the working plan anticipation that no watering of the young plants would be required was not in all cases fulfilled. The area of these useful forests is unfortunately small, 108 acres only.

Cultural Operations.—The more or less haphazard system of the past of sowings and dibblings by guards has now been largely dropped, as showing few tangible results, and in its place efforts are concentrated on the mulching of natural seedlings in closed areas, on agriculture-cum-forestry, and on sowings in selected areas. The first named has already been dealt with; the second was in force in West Khándesh 330 acres, and in Poona 411 acres. Moderate results are reported from the former, the Bhil being an indifferent cultivator in his own interests, and apt to be still more so in Government interests; reports from the latter are much more satisfactory, and the area under this system is likely to show a considerable increase judging from the demand for land on these terms in the Akola range. Sowings in selected areas were carried out to a small extent in all divisions, and with great energy in Poona under the continuous interest shown in this matter by Mr. Thomson during his four years' charge of the division; that his and his subordinates' efforts have met with success is evinced by a remark by the Collector of Nagar, that, "I inspected many of the agriculture-cum-forestry plots in the Akola range this year with Mr. Gupchup (Ranger), including certain nala lands under reclamation by Thákurs, and I must congratulate the department on the progress being

Speaking generally, there is more scope for cultural operations and artificial regeneration in the Deccan divisions with their denuded and over-grazed hills than in Khándesh where fire protection is the main object to be attained, or in Kolaba where the climate naturally favours tree growth.

The expenditure during the year was on "Regular Plantations" Rs. 926, on "Cultural Operations" Rs. 2,868.

Southern Circle.

Regular Plantations.—The casuarina plantations on the Kánara and Ratnágiri Coast were extended by 39 and 2 acres, respectively, at a total cost of Rs. 3,214. The condition of the plantations is reported to be excellent in Kodibag and good in all other places, except Harwada, Gangawali and Arge where it is not altogether satisfactory principally because of the unsuitability of the underlying soil.

Cultural Operations.—Kánara, N. D:—About 2,50,000 natural teak seedlings were tended by weeding and mulching and the results are said to be most encouraging. Dibbling was done in the Kulgi range and was satisfactory. About 85,000 teak were transplanted from local nurseries with satisfactory results.

Kánara, E. D.—Much work was done in the teak pole area, where about 1,65,000 teak seedlings were tended in the coupes felled last year. Many of these were left where found, and were weeded, earthed up and sheltered; others were picked out from thick clumps of seedlings or from roadsides and fire lines and planted where needed, and similarly tended. In the High Forest areas, also large numbers of teak seedlings about 53,000 were planted in all Ranges. Teak, honni and matti seed was dibbled in patches where dead bamboos, chips and other dry material had been burnt, and seedlings came up well in such patches.

Kánara, C. D.—About 58,000 teak and 1,40,000 matti seedlings were planted in felled areas and 68 bags of teak and 300 bags of junglewood seeds were sown in various forests.

Kanara, S. D.—The casuarina coupe cut in 1914-15 was planted up with casuarina seedlings. No other work was undertaken.

Kánara, W. D.—Attempts were made to introduce some teak into areas where it was absent; about 2,500 seedlings were thus planted at various places in Kadra range and 4,000 more were left for future planting. In High Forest Block XXVI, about 19,560 seedlings were planted. The Divisional Forest Officer, Mr. Marjoribanks, states that most of this work is due to an excellent nursery at Shivpur. In Supa range 1,425 matti, 500 kindal and 700 honni plants were raised by guards and planted in felled fuel areas. In Gund range some 225 teak plants were transplanted from nurseries.

Belgaum.—Plants were obtained from nurseries and from natural seedings and put out where necessary. Seed was also sown; teak broad-casted near Golihalli 2 years ago produced many plants this year. Harda dibbled in during the past 2 years in Uchwade coupes resulted in numerous strong harda plants during the year.

Dhárwár-Bijápur.—In Dhárwár range teak and other junglewood seeds were sown in 1,000 pits made by guards; nim and sandalwood seeds were also sown in 40 pits in the Mandihal naka compound. About 1,000 nim seedlings were raised in Doni forests. In Kod range 1½ maunds of teak and junglewood seeds were sown at various places. In Hangal range, 7 bags of teak, sandalwood, matti, etc., were sown in felled coupes and other areas.

In the babul areas of Bágalkot a few sandalwood and shendi palm seedlings were raised by local guards. The latter were also sown along sides of nallas. Sandalwood seed is reported to have germinated more freely in Kolhar than elsewhere. The seedlings of teak and sissum transplanted in Mamdapur coupe throve well. Seeds of teak, sissum, shivani, bamboo, etc., were obtained from outside and sown in the babul areas. The agriculture-cum-forestry operations tried in the Mamdapur coupe No. 12 are reported to have failed owing to excessive rain, thereby entailing loss to cultivators. As a result of the year's operations there were only a few sickly looking babul seedlings, and Government got a paltry revenue of Rs. 6 as price of their share of the poor cereal crop. A similar operation in the Kolhar survey No. 368 previously exploited is reported to have been successful. The seedling crop of babul is here most satisfactory and the Government share of the value of the cereal crop was Rs. 64. Agriculture-cum-forestry is said to be not sufficiently popular in all the babul areas of Bijápur and departmental operations have therefore been undertaken by the Divisional Forest Officer in Chickgulbal coupe No. 5 of Bagalkot range with a view to advertise the system.

Ratnágiri.—The nurseries at Dapoli, Dahmapur and Tondávli were maintained with due care and about 2,555, 50 and 2,000 seedlings were grown in them, and about 1,600, 60 and 1,200 from the respective nurseries were transplanted in the plantations attached thereto.

Sind Circle.

The "Regular Plantations' in Sind are those of tali (*Dalbergia Sisoo*). There were 298 acres under "Regular Plantation" at the commencement of the year, 3 acres were added and nothing abandoned, so the total at the close of the year was 301 acres.

In Kot-Sultan plantation of Sukkur Division tali (Dalbergia Sisoo) cuttings were put out to replace casualties and most did well. Crooked growth was cut back and the stools coppied well. Thinnings were also carried out. The Zerkale plantation was well irrigated by a kasi from the Sher wah, some of the tali trees here were partly uprooted owing to excess water but were kept upright with supports and are now well established. Kandi and babul seed was sown in blanks but the resultant seedlings suffered much from frost. In Lárkána 3 acres were added altogether to the existing tali plantations in Madeji, Amrote and Bhour. In Khatro tali plantation of Jerruck Division seed was sown in nursery beds and 600 seedlings transplanted in Khathar forest, the majority throve well. Tali crops of previous years were pruned: these had been planted too far apart.

The old established gardens were maintained as under:-

Rahui	Sukku a at a cost	of Division.		Rs 1,169
		ad Division		2,200
Miani	bungalow monument mango		}	1,317
	,		Total	2,486

Cultural Operations.—One thousand two hundred and seventy-five acres were treated under the system of forestry with agriculture, the assessment (amounting to Rs. 3,218) being credited to the Revenue and Public Works Departments by book transfer; this is for land which gets water from Public Works Department canals. Results were reported fair in Sukkur, Lárkána and Hyderabad. In Jerruck the work was confined to Khathar forest owing to the low inundation. Here in addition to the area mentioned in last year's report 137 acres of blanks have been given out for cultural operations for a period of 3 years from June 1915. Some of this land was poor and germination of both cereals and forest crops has partially failed, but about 70 per cent. has given good results in the strip sowings of the first year which were made on slightly raised bunds. In six months some seedlings showed a height growth of 3 feet and were rarely less than 18 inches. Babul was associated with nim (Melia Azedirachta) and ber (Zizyphus Jujuba) in this case.

The other system of cultural operations adopted is the broad-casting of seed on blanks and exploited coupes which receive flood water. Under this system 1,455 maunds of babul and kandi seed were sown throughout the circle over an area of 5,093 acres. Results were satisfactory. A little nim seed was sown under this system in Hyderabad and Sukkur but failed to germinate in the latter division.

(c) Operations for the improvement of growing stock. Northern Circle.

These at present are not provided for under the working plans to the extent required, and are limited to the tending of seedlings and coppice referred to under "Natural and Artificial Regeneration." Even these efforts are restricted by the shortcomings in the staff and lack of funds. The revised working plans provide adequate staff and operations, the future depends on the realization of those proposals.

Central Circle.

These consisted as usual of creeper cutting by guards' labour.

Southern Circle.

In Kánara Northern Division climbers were cut and teak saplings were freed from interfering growth. Trees were also marked for felling in the Haliyal and Sambrani ranges, according to the prescriptions of the working plans for improving the growing stock.

In Kánara Eastern Division, though the operations had to be curtailed for lack of funds, 3,000 junglewood trees and 7,000 inferior teak trees were cut back; 3,000 obstructing branches, 58,000 bamboos and 29,000 creepers were cut; and 20,000 teak seedlings and saplings were freed from suppressing growth.

In Kánara Southern Division teak trees were freed from interfering growth, and creepers and inferior trees were cut. Standards in closed coupes were freed from inferior growth.

In Kánara Western Division thinning, cleaning and pruning operations were carried out in the casuarina plantations at Kodibag and Chitkule and in the teak plantations at Kadra and Sulgeri. In Gund range, 3,265 natural teak seedlings were mulched round with grass and loose earth, and 1,330 teak saplings were freed from interfering growth. In Kadra 330 badly grown teak trees were cut back. The Divisional Forest Officer, Mr. Marjoribanks, states that his subordinates have been taught to realise the importance of sylvicultural work.

In the Belgaum Division thousands of teak and junglewood seedlings were freed from interfering growth; creepers were cut and badly grown trees were marked for improvement fellings in accordance with the provisions of the working plans.

In the Dhárwár-Bijápur Division valuable trees including sandalwood were freed from creepers and interfering growth; weeding and soil mulching were applied to seedlings raised in Bagalkot range.

Sind Circle.

Cutting of kamo creeper was carried out in Lárkána, Hyderabad and on a larger scale in Jerruck Divisions.

(d) Experiments.

Northern Circle.

None were undertaken.

Central Circle. .

In the three Khandesh divisions attempts to cultivate and propagate lac were continued, but with no results that can be considered satisfactory. Infection of fresh tree is a matter of no difficulty, but it is labour thrown away, for the new brood is almost invariably destroyed by black ants, and no measures to defeat these pests have so far been found to be of use. The development of what gave hopes of being a valuable industry has been entirely thwarted.

In Poona the question of hirda seed germination received further attention; removal of the outer, dried up, fleshly covering appears to have a good effect.

In Sátára the Mahableshwar orchards produced a fair crop of pears, but hardly of a quality to justify the expenditure of much money or labour on the continuance of the experiment. Elsewhere in the district the orchards are complete failures and will be abandoned.

Southern Circle.

The teak and jamba paving blocks sent to the Bombay Municipality for trial, as stated in the last year's report, are reported to have been put down on the streets in the 1915 dry season and the experiment is being watched.

The Forest Economist, Dehra-Dun, has timber pieces of different species seasoning under different methods in the Dandeli range in Kánara N. D. and at Kodibag in Kánara W. D. The final results of the experiments will be known after two years.

A minor experiment undertaken by Mr. Marjoribanks in Kánara W. D. was the collection of "lurrs" on various species of trees, which are being sent for trial in veneering work.

Sind Circle.

Seed of bamboo (Dendrocalamus strictus) was sown in the Jerruck, Sukkur and Lárkána Divisions and that of Bambusa arundinacea in Hyderabad. The seed germinated but after past experience its development on a commercial scale is not likely in Sind. Ber was introduced into felled coupes in the Katiar range of Jerruck Division and is worth persevering with. Experiments were also made with a view to sow tali direct into felled coupes which have carefully regulated flow irrigation. Most of the present existing tali plantations are mechanically watered at great expense.

Attempts to assist in the further propagation of the lac insect were made in Hyderabad and Jerruck Divisions but were attended with little success. Lac has however appeared naturally and prospects are hopeful.

5.—Exploitation.

(a) System of Management.

(i) Major Forest Produce.

Northern Circle.

Statement by area of various systems of exploitation in force with percentages by divisions and for the circle:—

• -	clear by co	hod of felling mpart- ent.	Uni Me	iform thod.	G M	Froup ethod.	Sel- Me	ection thod.	Si Co	imple ppice.	W	pice ith dards.	Imp	nod cf prove- nent.	not Wo	rkable nd area under rking an.
Division.	Aros in square milos.	Percentage of total area under the syl- vicultural system.	Arsa in square miles.	Percentage of total area under the syl- vicultural system.	Area in square miles.	Percentage of total area under the syl- vicultural system.	Area in square miles.	Percentage of total area under the syl- vicultural system.	Area in square miles.	Percentage of total area under the syl- vicultural system.	Area in equare miles.	Percontage of total area under the syl- vicultural system.	Aros in square miles.	Porcentage of total area under the sylvicultural system.	Area in square miles.	Percentage of total area under the gyl- vicultural system.
Panch Mahals	4					•-•	 		· 		278	83.7	96	7.9	28	8-4
Surat								ļ			68	9-3	159	22.0	497	68.7
North Thána		•••	•••	•••			*25	7.4	***	•••	307	91-7		•••	3	0.9
Central Thána		•			} 	•••	*13	3.6		 .	356	95-4			4	1.0
South Thána				• •••			3	0.8			326	95-6		***	12	3∙6
North Násik	4	1.0	•••						ļ		175	32-5	47	8.7	309	56.8
South Násik	·	···	***	•••	***	٠	217	35-0			278	45.0	•••		121	20.0
Total	4	1		,,,		٠	258	7.9			1,788	54-9	239	7.2	974	29.9

* Prescribed by working plan but found unworkable pending improved communications.

Clear Fellings.—This system was limited to babul coupes in the North Násik Division. 10 coupes were exploited.

Selection Fellings.—This system is prescribed by working plans for the forests of Mokhada and Talasari Maháls of North and Central Thana respectively, but exploitation is found impossible pending improved communications for which both staff and funds are lacking. A small subsidiary selection felling was made in the Tulshi forests of South Thána under the existing plan. Forty-nine coupes in the below ghat forests of the South Násik Division were worked under this system. Even here the system is not satisfactory but the best makeshift pending better communications, buildings, and staff. It is a valuable property deteriorating for lack of funds.

Coppice with Standards.—This has been the favourite system up to date common to all divisions but proving unsatisfactory in many ways is likely to be superseded by clear fellings. The revisions of existing plans are in hand and the work is being pressed on. A considerable increase in staff and works will be well repaid if sanctioned.

Improvement Fellings.—The working plans of the Dángs prescribe this system and it appears justified as a preliminary to high forest clear fellings. It is also applied to the anjan forest of North Násik.

Central Circle.

Clear fellings were undertaken in babul and casuarina forests only, 22 babul coupes aggregating 235 acres being felled in Poona and East Khándesh and 1

coupe of 1 acre only of casuarina in Kolába. In addition, the babul growth in the forests of 45 villages of the Poona Division was sold, standing prior to transfer of the lands to the Revenue Department; the price realized on this was Rs. 24,782.

Improvement fellings comprising mainly a system of selection of over-mature and unsound trees were carried out in the Satpuda forests of East and North Khándesh, in the Umarpata, Deomogra and Dhulia and Pimpalner forests of West Khándesh, on the Mahableshwar and Matheran plateaus of Sátára and Kolába, and in the Akola and Lonavla forests of the Poona Division. The selection system, pure and simple, is nowhere in force in the circle.

Coppice fellings took place in the teak forests of Poona, Sátára and Kolába, and in the Edlabad range in East Khándesh, though in the last named, owing to the denuded state of the forests and the poor demand for material, the fellings are more nearly improvement than true coppice fellings.

Of the total organized areas of the circle amounting to 2,301 square miles, working plans prescribe for 33 square miles the system of clear fellings, for 1,516 that of improvement fellings and for 752 that of coppice with standards.

Unregulated fellings in forests consisted solely of material for free grants in all divisions, and of clearance of rides at Mahableshwar; outside forests, of the sale of royalty trees in occupied lands in all divisions and of reserved trees in unassessed Government waste, the latter wholly in West Khandesh.

Southern Circle.

The systems of management remained unchanged during the year.

Clear Fellings.—These were made in the coast plantations of Kánara on an area of about 16 acres realising Rs. 129 per acre, and in babul forest of Bijápur, where a coupe of 21 acres fetched Rs. 60 per acre.

Selection Fellings.—These were undertaken in accordance with the provisions of the sanctioned working plans as shown below:—

		1	No. of trees cut	i.
Division.	-	Teak	Blackwood.	Junglewood
Organized area. Kánara Northern Division Kánara Eastern do. Kánara Central do. Kánara Western do.		4,986 2,997 63 1,330	453 16	2,277 1,270 211 36
Unorganized area.		125		3,102
Dharwar-Bijapur Division Total of 1915-16		9,501	469	3,794
Total of 1914-15		7,815	• 540	1,760

Improvement Fellings .- These were carried out as under :-

	No. of trees cut.				
Division.	Teak.	Blackwood.	Junglewood		
Kánara Northern Division Kánara Eastern do Kánara Western do	3,703 6,887 731	750	572		
Total for 1915-16	11,321	750	573		
Total for 1914-15	5,347	••	320		

Coppice Fellings.—This is the system most generally in use in all the divisions of this circle; 12,601 acres were worked during the year against 11,004 acres in 1914-15:—

Division	Area in	Revenue	per acre.	Quality.		
2 PARMIT	acres. 1915-16. 1914-15.		1914-15.			
Organized area. Kánara Northern Division Kánara Eastern do. Kánara Central do. Kánara Western do. Belgaum Dhárwár-Bijápur Total 1915-16 Total 1914-15	682 1,123 348 857 119 2,329 375 5,833 5,804	Rs. 118 20 22 25 25 64 65	Rs. 188 21 37 325 92 100	Teak poles, timber and fuel. Teak poles and fuel. Timber and fuel. Logs, poles and fuel. Logs, poles and fuel. Railway fuel. Logs, poles and fuel.		
Unorganized area.						
Kánara Southern Division Kánara Western do. Belgaum Dhárwár-Bijápur	364 1,002 3,691 1,711	17 8 4 22	16 4 22	Timber and fuel. Railway fuel. Local fuel. Poles and fuel.		
Total 1915-16	6,768	10				
Total 1914-15	5,200		7			

The drop in value per acre on the whole is ascribed to dislocation of business caused by war and consequent want of bidders for standing coupes.

Unregulated Fellings.—In Kánara C. D. and Dhárwár-Bijápur 252 jungle-wood trees were exploited in various jungles and fetched Rs. 2,348. In Kánara Eastern, Central and Southern Divisions, and in the Belgaum and Dhárwár-Bijápur Divisions dead sandalwood trees exploited from various jungles were converted into billets amounting in all to 118 khandies of good heartwood, which realised a revenue of Rs. 30,675. Seven hundred and sixty-three sandalwood trees were also sold standing to be worked by purchasers.

Sind Circle.

Clear Fellings.—Sixteen thousand, six hundred and ninety-one acres of forest were exploited under this system in accordance with the provisions of the working plans as compared with 15,082 acres during the previous year. After exploitation whatever branchwood is left is burnt wherever feasible and advisable, and the soil either ploughed up and resown with babul and kandi seed broadcasted, or sowings are made in drills.

The system is not strictly one of clear fellings. Under the revised working plans a few standards are reserved from the young stock in the coupe, and in Upper Sind the coppice of bahan and kandi stools is carefully preserved.

Improvement Fellings.—The removal of fallen and dead trees was carried out over an area of 4,392 acres as compared with 14,205 acres in 1914-15. In Jerruck thinnings were carried out in Khokhar, Khathar and Malirri forests, the operations extending over 285 acres and the material realising Rs. 1,100.

Unregulated Fellings.—Under this head come clearance of trees from erosion strips, and various other cuttings to provide wood for free grants and to meet emergent indents from the Public Works Department The area of erosion strips cleared was 1,902 acres against 5,208 acres in the previous year.

ii) Minor Forest Produce.

Northern Circle.

This is worked without fixed plan as public demand requires, consistently with the well-being of the forests.

Central Circle.

This is disposed of as occasion demands, by departmental collection and sale, or by farming the right of collection, or on permit. Under the first method mhowra seed and hirda form the main item, yielding respectively Rs. 6,094 and Rs. 12,484; under the two latter, hirda yielded Rs. 10,379, and grass and grazing Rs. 2,45,516. Other minor products, silk cotton, rosha grass, leaves, pods and fruits, bamboos, earth and stone, brought the total revenue realized to Rs. 2,97,384 as against Rs. 3,00,104 in 1914-15.

Southern Circle.

Form No. 20 gives the details. The systems of collection of revenue for minor produce remained as before: bamboos, quarry produce and grazing are sold on permits; other minor product farms are sold by auction usually for a term of one year. The total revenue from this source was Rs. 1,89,089 against Rs. 1,64,776 during 1914-15.

Sind Circle.

Details are given in Form No. 20.

Lac, fish, babul, bahan and kandi pods, sar and kanh grass were farmed out to contractors. Other grass is either allowed free or sold on permits at fixed rates. Lac appeared naturally during the year and contracts were sold early in the year in the Hyderabad and Miani ranges for Rs. 525 and in Katiar range of the. Jerruck Division for Rs. 120. Prices realised after the close of the year under report are much better.

(b) Agency of Exploitation.

(i) Departmental Agency.

Northern Circle.

This was confined to the North Dángs: 99,526 cubic feet were removed and sold at the railway sale depôt 25 miles distant for Rs. 1,20,278-8-0.

Central Circle.

In the case of timber and fuel, departmental extraction is little resorted to, most coupes being sold standing to contractors; the only notable exceptions being those in which, owing to their inaccessibility or paucity of growth, purchasers do not come forward, and also the coupes that are worked for the fuel supply of Mahableshwar and Matheran. At Mahableshwar Rs. 4,076 were spent on the extraction of 93,541 cubic feet of firewood, the resulting price being Rs. 7,435; at Matheran 15,207 maunds were extracted, the cost being Rs. 3,309 and the revenue Rs. 5,308. In Poona 1,08,772 cubic feet from dead and fallen trees, the results of floods and erosion in the riverain babul forests, were departmentally cut and sold for Rs. 8,114.

As regards minor products, the hirda crop in the Rajur and Akola ranges of the Poona Division had perforce to be collected departmentally, no other system being possible in a locality where the hirda trees in occupied lands so largely outnumber those in forests, where the villagers themsleves carry on such a large trade in the fruits, and where no contractor will purchase the forest hirda on the trees for fear of its finding its way to the villagers' depôts rather than to his. The share system of collection is adopted under which each forest village by agreement contributes a fixed quantity free of charge, all balance over and above such quantity being at its disposal, but the system throws much work on the Forest Department in keeping the villagers to their agreements, and in the subsequent transport

of the hirds to central depôts where it can be sold to Bombay merchants. With great difficulty and only after much personal exertion by the Divisional Forest Officer was a satisfactory sale effected of the 1915-16 crop and of that which had remained unsold from the previous year. The net profit on the operation was Rs. 4,318.

For much the same reasons mhowra seed has to be collected departmentally in North and West Khándesh. In the former division the crop was poor and the net profit was Rs. 624 as against a loss of Rs. 305 in 1914-15; in the latter it was good, the profit being Rs. 2,679 as against Rs. 167.

The total value of produce removed by departmental agency was Rs. 43,440 as against Rs. 26,342 in 1914-15.

Southern Circle.

The following table shows the work done by departmental agency:—

	•	Average o	three pr	eceding ye	ars.		1915-16.					
Produce.	Balance.	Exploited during the year.	Total.	Disposed of during the year.	Cost.	Re- ceipts.	Balance.	Exploited during the year.	Total.	Disposed of during the year.	Cost.	Re- ceipts.
Major.	C, ft.	C. ft.	C. ft.	C. ft.	Rs.	Rs.	C. ft.	C. ft.	C. ft.	C. ft.	Rs.	Rs.
Timber	671,944	1,925,481	1,897,425	1,001,470	3,84,415	10,77,721	593,570	980,423	1.673,993	834,249	4,65,403	11,02,064
Fuel	875,186	3,571,933	4,447,119	3,567,788	1,82,745	9,44,423	557,095	3,660,641	4,917,736	3,437,478	1,22,340	9,34,711
	Rs.	Bs.	Rs.	Rs.		ļ	Rs.	Rs.	Rø.	Rs.		
Sandalwood, Value	92	38,539	38,631	38,546	2,292	38,546	55	38,711	8 8,766	86,761	2,449	36,761
Minor.	Number.	Number.	Number.	Number.			Number	Number.	Number.	Number.		<u> </u>
Bamboos		ு 9 81	981	981	34	49		***	•••	•••		
a a	Rs.	Bs.	Rs.	Rs.			Rs.	Rs.	· Rs.	Re.	}	
Grass & other minor produce		11,541	12,194	11,481	2,740	11,549	181	1,125	1,306	796	959	796

The quantity of timber exploited during 1915-16 was 980,423 cubic feet against 893,126 cubic feet in 1914-15, an increase of 87,297 cubic feet. The percentage of timber exploited departmentally to the total outturn was 55 against 53 in the previous three years. The comparison with the preceding three years as shown in the above table is not of much value on account of the inaccuracies explained in the last two reports. There is no question that a very much greater outturn ought to be made from the Gund, Kadra and Supa ranges of Kánara W. D. Great difficulty is, however, experienced in getting contractors to take up new works in other than a careless and speculative fashion. Personal supervision and a determination to carry the work through in proper time are wanting. The advance of cash is the chief attraction. On the other hand, the employment of workmen directly under departmental control cannot be greatly extended until the supervising staff and communications are improved. This matter is under the consideration of Government and a scheme of improved communications is being drawn up.

The quantity of fuel exploited departmentally during the year was 3,660,641 cubic feet against 3,212,110 cubic feet in the previous year, an increase of 448,531 cubic feet. The percentage of fuel extracted by Government agency to the total outturn was 31 against 34 in 1914-15.

The outturn of sandalwood depends more or less on the number of mature or dead trees available for extraction. The quantity extracted during the year was more than in the previous year, the prices realized being Rs. 30,675 against Rs. 28,963.

In the Belgaum Division grass was cut, baled and carted to Belgaum for sale at a total cost of Rs. 802; for want of demand some quantity remained unsold at the close of the year. Experiments in ensilage were continued at a cost of Rs. 155. Grass from one of the silos was given free for Government buffaloes at the Tavargatti Saw Mill and the remaining was sold for Rs. 76.

The following table shows the work done by the two saw mills in Kánara N. D.

, Ma	terial.	,		Outturn.	
			1915-16.	1914-15.	1913-14.
5 feet teak sleepers 6 , reject 7 ,, reject 2½ ,, Bridge sleepers Planks Scantlings Battens Felloes Spokes Teak paving blocks Junglewood paving block Tramway sleepers Junglewood sleepers	eted	Number " " C. ft " Number " " " " " "	7,472 144 200 2,118 16,065 6,655	18,128 954 213 22 10 5,612 9,293 11,917 140 291 18,700 20,300 	10,170 1,162 721 565 2,615 11,658 5,669 175 3,920 5,000

The outturn of 1915-16 was not so satisfactory as in previous years for the following reasons.

- (a) One mill was closed down for repairs for three months;
- (b) both mills were moved during the year.

The value of the year's outturn is estimated to be Rs. 57,360, the charges being Rs. 49,987; the net income from both mills was Rs. 7,373. With more favourable conditions in the new sites and with closer supervision, it is hoped that the next annual account will show better results.

In Kanara E. D. a contractor's saw mill, which has been standing idle at Kirwatti for some years, resumed work this year and is reported to be useful to the Department. In the six months during which the mill was working the output was as follows:—

6 feet teak sleepers		No.	10,966
7 do. do.	• •	• • • • •	258
Teak planks, cubic feet	• •,	,,	1,400
Do. scantlings do.	••,	· ,,	· 200
Do. battens, running feet	• •		1,00,000

For sleepers the contractor gets the usual wages fixed in his contract agreement; for planks, scantlings and battens he is paid a § share on the sale price of the material, the remaining § share going to the Department. Government gets this § share on the material which would have been wasted in the jungle without the help of the mill. The value of the material in the present instance is over Rs. 4,000 and the Government share is Rs. 1,500.

The work of the two Government elephants in the Gund range of Kánara N. D. is reported to have been satisfactory during the year, the profit on the working being estimated at Rs. 1,200 against the loss of Rs. 600 in the previous year. On 1st May 1916 the animals with the Gund range forests were transferred to Kánara W. D. and, at the close of the year, they were sold for cost price, viz., Rs. 6,500, to the contractor to whom the departmental work in Gund had been transferred in the early part of the year; the sale was reported to Government, vide Government Order No. 6,933 of 13th July 1916.

The Government buffaloes in Kánara N. D. worked at a loss this year. The Divisional Forest Officer reports that some of the animals have become old and unfit for work. This is probably true and others will have to be purchased. These carts are not popular with the officers as they entail a good deal of supervision and bother, but they are undoubtedly useful and necessary.

The cart depôt (established in the year 1915 as per Government Resolution No. 2198 of 9th March 1914) is independent of the above establishment and continues to work as reported to Government shortly after the close of the year.

Sind Circle.

Departmental operations were confined to the supply of fuel to Government steamers of the Indus. The quantity supplied was 181,404 cubic feet and the value Rs. 4,794. The expenditure incurred was Rs. 3,908. The amount of wood required was considerably lessened by the absence of some of the Government steamers on other duty.

(ii) Purchasers. Northern Circle.

This agency was the usual one in vogue in all divisions. All major and minor forest produce excepting that abovementioned and that removed by privilege holders or free-grantees is thus disposed of (to contractor). For quantities, see the statement under "(c) Outturn and Sources of Forest Produce."

Central Circle.

By this agency is removed the greater part of the produce of the circle. Two hundred and thirty-three coupes in all divisions were sold as against 246 in 1914;15, the deficit being due to a few failing to attract offers on account of inaccessibility or inferior growth; the resulting revenue was Rs. 2,32,849 as against Rs. 2,36,113. Two coupes were sold for extraction of dead wood in West Khándesh, and a large quantity of the same was removed on permit in East Khándesh.

One hundred and twenty-three thousand, seven hundred and sixty-eight royalty trees standing in revenue lands were sold to occupants or purchasers for Rs. 1,00,661 as against 124,362 for Rs. 1,25,911 in 1914-15; this is a source of revenue that cannot be indefinitely counted on, for the number of teak in occupied lands still remaining to be disposed of is now comparatively small, and the major part of the income is derived from the clearance of waste lands in West Khandesh which are needed for cultivation.

Under "Minor Produce" grass and grazing is the chief item, the revenue falling from Rs. 2,57,860 to Rs. 2,45,516; grass sales decreased by Rs. 20,361 in East Khándesh, the natural, though merely temporary, result of periodic changes of the areas in the plains ranges sold for grass cutting; but both in Poona and Sátára there was a substantial increase as a result of the tendency which villagers are showing to make the most of this product by cutting and storing it rather than adopt the wasteful method of grazing, a satisfactory tendency which will receive every encouragement. Grazing fees increased by Rs. 5,740, 868,069 animals being paid for as against 800,839. Free grazing was enjoyed by 66,700 animals.

Bamboo revenue declined from Rs. 13,041 to Rs. 8,301; that for hirda and shikekai increased by Rs. 8,599; Rosha grass receipts fell by Rs. 3,192 and the net results of removal of all kinds of minor produce by purchasers amounted to Rs. 2,77,861 as against Rs. 2,94,296 in 1914-15.

Southern Circle.

Value of produce removed by purchasers was—

Produce.		{	Average of past	three years.	1915	16.
		<u> </u>	Quantity.	Value.	Quantity.	Value.
Major. Timber Fuel		••	C. ft. 758,878 5,478,497	Rs. 2,47,058 89,159	C. ft. 747,698 7,914,493	Rs. 2,83,536 96,113
	Total	•••	6,237,375	3,36,217	8,662,191	3,79,649
Minor. Bamboos Grass and grazing Other minor produce		•	Number. 4,859,878	53,396 68,965 55,690	Number: 2,233,369	47,943 71,028 70,118
	Total	• •		1,78,051		1,89,089
Grand	total	• •		5,14,268	••••	5,68,738

The increase in the amount and value of the major produce removed is due to the larger number of coupes sold during the year. The number and value of bamboos decreased, as the clumps in most of the accessible localities have seeded and people have to go further for good culms. The grazing revenue is a varying item being enhanced or remitted according to bad or good forest protection. The receipts under "Other Minor Produce" show an increase owing to the recovery of instalments postponed last year owing to bad trade conditions.

Sind Circle.

Receipts from the sale of coupes and dead wood are shown below:—

Division.	Description of area exploited. Acreage.	Value realized.
Sukkur Lárkána Hyderabad Jerruck	Coupes 7,063 Dead wood 952 Coupes 3,360 Dead and fallen trees 70 Coupes 2,477 Burnt area 810 Dead wood 2,361 Coupes 3,643	} 99,655 24,391 } 68,956
Total, 1915-16	20,736	2,53,113
Total, 1914-15	20,055	1,76,435

There has been a satisfactory increase in receipts under this head to which all divisions contributed except Jerruck. The dead wood has now been largely worked out of the forests and there was little available in Lárkána and none in Jerruck Division.

The revenue realised by the sale of fuel under the permit system was Rs. 6,704 against Rs. 7,265 of the previous year. There were decreases in Sukkur and in Hyderabad at the Matiari Ghat, and an increase at Tatta in Jerruck. The system is necessary in some cases for the very poor, but the forests undoubtedly suffer where it is carried out on any large scale.

Grazing.—The grazing fee collection was as under:—

•			
Division.	•	1914-15.	1915-16
		${ m Rs.}$	\cdot Rs.
Sukkur	• •	10,415	13,136
Lárkána	••	6,833	6,797
Hyderabad	·	14,700	14,815
Jerruck	••	9,194	11,435
Total		41,142	46,183

There was an increase in all divisions except Lárkána. The cause of the large increase in Jerruck has been already mentioned, but apart from the great influx of herdsmen owing to scarcity of grass outside forests, grazing collection depends largely on the Rangers' personal efforts under the new rules.

Minor Forest Produce.—The revenue derived from minor forest produce farmed out, and from assessment levied on lands leased out for cultivation is detailed below and compared with last year's results.

Produce.		•	1914-15.		1915-16 . ´
1 Idageo.			Rs.	•	${ m Rs.}$
Lac			35	.•	645
Babul pods			21,488	•	24,284
Grasses	·		3,674	•	. 3, 88 8
Fishery			5,995		4,341
Cultivation	_	••	9,088	•	13,325
• •	Total		40,280		46,483

(iii) Rights and Privileges.

Northern Circle.

These remained as before with the exception of a few instances of easements in the matters of local grazing and loppings for manure. There were no serious complaints. Full details are to be found under Forms 19 and 20 and the statement under "(c) Outturn and Sources of Forest Produce."

Central Circle.

The value of the produce removed under this head was-

•		Ks.
Timber .		165
Fuel	• •	10,666
Grass and grazing	•	27,688
Minor produce		4,659
•		

Total .. 43,178

the major part representing privileges in Khándesh enjoyed under the Tapti Codes. In addition Rs. 6,692 were paid in cash as khoti shares on the forest revenue in the Kolába Division.

Southern Circle.

Right-holders do not exist in this circle, and there are no means of recording with any accuracy the value of produce removed under privileges. The villagers remove what they want without obtaining any formal permit from the Department. The abuse of these privileges is common and must go on as long as the villagers are not required, under the existing rules, to obtain privilege-permits before entering a forest; it is at the same time doubtful whether if any such check were introduced the present establishment could efficiently cope with the increase of work involved. The estimated quantity removed and its value are practically the same as in the previous year.

.	1915-16.				
	Quantity.	Value,			
	C. ft.	Rs.			
_}	300,000	72,000			
••}	3,041,686	6,46,353			
	"	S			
	3,000,000	15,000			
		3,00,387			
• • •	••••	1,80,000			
		Quantity. C. ft. 300,000 3,041,686 3,000,000			

Sind Circle.

The extent and value of forest produce and grazing enjoyed free under privileges amounted to—

Grazing .. 10,896 animals .. Value Rs. 3,891
Firewood .. 18,282 cubic feet .. ,, ,, 169

(iv) Free Grants.

Northern Circle.

Free grants of a value of Rs. 4,883 were given compared to Rs. 14,540 in the previous year. The difference was chiefly due to an abnormal grant on account of a large fire at Badlapur in South Thana in 1914-15.

Central Circle.

Timber and produce of all descriptions to the value of Rs. 5,008 as against Rs. 6,212 in 1914-15 was granted free to deserving persons, in several cases as a reward for help in fire protection, in others for rebuilding of houses, temples and schools, and in one division in the form of stones for the building of tals and wells.

Southern Circle.

free during 1915-16 as compared with the average of the past 3 years:—

		Average of pa	st three years.	1915-16.		
Produce.		Quantity.	Value.	Quantity.	· Value.	
Major. Timber		C. ft. 31,962 25,460	Rs. 8,569 329	Cft. 26,160 42,190	Rs. 9,368 244	
Total		57,422	8,898	68,350	9,612	
Minor. Bamboos		Number. 63,834	455 4,064 1,211	Number. 30,472	185 4,136 1,809	
Total	• •	••••	5,730	••••	6,130	
Grand total	••	••••	14,628	••••	15,742	

In Kánara free grants of timber and minor produce were more liberally given on account of good fire protection in the preceding year. A large free grant of timber worth Rs. 648 was made to a Roman Catholic church at Honáwar in Kánara S. D. In Belgaum free grants were curtailed to some extent on account of forest fire. Free grants under other heads were normal.

Sind Circle.

Are shown below:--

	-		.	Value.		
Produce.	_[_	Extent.		1914-15.	1915-16.	
Grazing Minor produce Timber—firewood		7,048 animals 686 bundles 7672.78 cubic feet		Rs. 529 91 764	Rs. 1,960 42 597	

In addition to the above free grazing was allowed to forest contractors to the value of Rs. 2,853.

In the Jerruck Division 5,321 animals belonging to poor graziers from Kutch and Kohistan were allowed to graze free, this concession being valued at Rs. 1,329.

(c) Outturn and Sources of Forest Produce.

Northern Circle.

The outturn from all sources of forest produce during the year 1915-16, compared with that of the previous year, was as follows:—

				1	daterial.				
Agency of exploitation.	Tim	ber.	Fuel.		Total wood.		Bam- boos.	Grass and grazing.	Minor produce.
Agono, co	Cubic feet in solid.	Value in Rupeos.	Cubic feet in solid.	Value in Rupees.	Cubic feet in solid.	Value in Bupees.	Value in Rupees.	Value in Rupees.	Value in Rupees.
Government [1915-16]	89,250 141,982	1,57,529 1,08,186	98,744 120,060	5,023 901	187,994 262,049	1,62,559 1,09,086	49	68,120 	8,799 91,689
Purchasers {1915-16}	2,639,965	11,91,533 19,93,183	5,441,809 3,725,834	. 11,755 11,033	8,081,774 6,190,438	12,03,288 12,44,166	34,427 36,880	1,02,887 93,878	35,924 25,230
Free grantees { 1915-16	8,729	2,466 14,540	 80	<u>\$</u>	8,802 52,39 8	2,468 14, <i>6</i> 40	 	"б	81 21
Privilege henders. { 1915-16 1914-15	76,220	2,28,660 2,28,660	7,691,903 6,913,572	2,64,641 2,51,000	7,698,123 6,969,792	4,93,301 4,79,660	5,048 6,360	9,96,780 3,07,009	57,000 44,000
•		15,80,188	13,162,636	9,81,421	15,976,693	18,61,609	89,475	4,67,787	101,729
Total for 1915-16 Total for 1914-15	0 725 904	15,84,519	10,759,466	2,62,933	13,494,670	18,47,452	43,319	4,00,392	88,940

The number of cattle for which grazing was allowed is estimated at-Free ... 416,342. On fee ... 467,642.

Central Circle.

The outturn from all sources of forest produce is compared with that of the previous year in the following statement:—

	<u></u> -]	•		-	Materi	al.				<u>.</u>
Agency of exp	Agency of exploitation.		Timber.		o1.	Total wood,		Bamboos.		Grass & grazing.	Minor produce.
		Cubic ft.	Value.	Cubie ft. solid.	Value.	Cubic ft. solid.	Value.	Number.	Value.	Value.	Value.
	41014.15	28,685	Rs. 2,941	274,734	Rs. 18,093	303,419	Rs.	100	Bs. 7	Rs. 24	Re. 5,277
Government	{ 1914-15 . 1915-16 .	7,147	1,387	286,283	22,504	293,430	21,034	1,567	94	26	19,403
	•	1,049,855	3,26,670	3,086,546	66,895	4,136,401	23,891	1,415,567	13,041	2,57,861	23,894
Purchasers	{	750,773	3,09,469	3,008,501	70,934	3,759,274	3,93,565	843,634	8,301	2,45,516	24,044
	(1914-15		2,154	860	21	14,167	\$,80,403	1,600	18	3,732	· 287
Free grantees	1915-16	19,604	3,266	29,091	903	48,895	2,175 4,169	10,000	85	Ī •••	669
	(1914-15	3.951	214	604,383	15,523	608,334	15,737	4,050	17	22,835	6,519
Privilege-bold- ers	1015 16	1,427	165	502,913	10,666	504,340	10,831			27,688	4,659
•	(1914-15	1,095,798	3,31,979	3,966,523	1,00,532	5,062,321	4,32,511	1,421,317	13,083	2,83,952	85,977
Total	1915-16	779,151	3,14,287	3,826,788	1,05,007	4,605,939	4,19,294	855,201	8,479	2,73,230	48,775

Southern Circle.

The outturn from all sources of forest produce during the year 1915-16 is compared with that of the preceding year in the following statement:—

	Tim	ber.	Fu	el.	Total	wood.	Baml	0008.	Sandal-	Minor forest	Grazing
Agency of exploitation,	Cubic feet.	Value.	Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	wood Value.	pro- duce. value	Value.
		Rs.		Rs.	· -	Rs.	.	Rs.	Rs.	Rs.	Rs.
Government	980,423	11,02,064	3,660,641	2,34,711	4,641,064	13,36,775		•••	86,761	•••	796
Purchasers	747,698	2,83,536	7,914,493	96,113	8,662,191	3,79,649	2,233,369	47,943		70,118	71,023
Free-grantees	26,160	9,368	42,190	244	1 83,350	9,612	30,479	185	 .	1,809	4,135
Privilege-holders	300,000	72,000	3,041,686	6,46,353	3,341,686	7,18,353	3,000,000	15,000	· ·	1,80,000	8,00,387
Total of 1915-16	2,054,281	14,66,968	14,659,010	9,77,421	16,713,291	24,44,389	5,263,841	63,128	36; 761	2,51,927	8,76,347
Total of 1914-15	. 1,998,891	13,41,633	12,480,902	10,03,802	14,480,793	23,45,435	8,233,250	71,760	28,963	2,26,410	3,76,135

The number of cattle for which grazing was allowed is estimated at— Free . . . 33,085 On fee . . . 442,938

Total .. 476,023

The total expenditure incurred under "Management of State Forests" was Rs. 7,28,850 against Rs. 6,80,407 in the previous year.

Sind Circle.

The outturn from all sources of forest produce is compared with that of 1914-15 in the following statement:—

_		· ·		Materia	l removed.	. •		•	
. Agency of exploitation.	Tim	ber.	Fu	Fuel.		Total wood.			
	C. 16.	Value.	C. 14.	Value.	C.ft.	Value.	Minor. produce.	Grazing.	Total.
	\	Rs.		Rs.		Rs.	Bs.	Bs.	Rs.
Government	4,554	1,136	285,264	5,304	290,818	6,440	740		7,160
Purchasers	202,802	65,489	15,710,966	1,96,130	16,913,768	2,61,619	83,645	40,183	8.41,448
Free grantees	7,673	597		***	7,673	597	42	4,618	5,452
rivilege-holders		, 	18,282	169	18,282	169		8,891	4,060
Total of 1915-16	215,029	67,222	16,015,512	2,01,603	16,230,541	9,68,825	84,428	54,887	8,58,140
Total of 1914-15	. 187,800	74,393	11,705,521	9,43,126	11,848,821	8,17.519	27,175	49,658	8,94,241

The quantity and value of material removed by the Public Works Department from the areas temporarily alienated to it along bunds and canal banks

Material.		••	Quai	ntity.			13	Value.
Timber pieces Branch wood bundl Earth		feet	10,494 540 9,991,672	•••	Rs.	1,049 19 2,441		
	•			To	tal			3 500

CHAPTER III.

FINANCIAL RESULTS.

Northern Circle.

The following statement compares results of the year with those of 1914-15 and with the average of the past five years:—

Head		1915-16.	1914-15.	Average of five pre- ceding years.
	. /	Rs.	Rs.	Rs.
Revenue	•	16,57,003 63,120	15,68,776 1,400	15,77,916 Famine Fodder.
$\mathbf{E}_{\mathbf{x}}$ penditure	۱ ·	15,88,883 3,55,694 —1,53,330	15,67,376 2,21,664 —69	3,10,125 Famine Fodder.
	3	2,02,364 4,08,045	2,21,595 4,15,537	4,07,058
Total Expenditure	•-	7,63,739 6,10,409	6,37,201 6,37,132	7,17,183
Surplus		8,93,264 9,78,474	9,31,575 <i>9,30,244</i>	8,60,733

N. B.—The above figures include the following on account of royalties on forest produce . from lands outside forests :-

> Revenue Rs. 1,55,831 Expenditure ..

Classification of Revenue and Expenditure of the year 1915-16:-

I.—REVENUE.

Particulars.	Receipts.	Percentage.
	Rs.	•
Major produce Minor produce Famine Fodder	13,65,840 2,91,163 -68,120	82·4 17·6
	2,23,043	•
Total	16,57,003 15,88,883	100

II.—Expenditure A.

		Rs.	Percentage.
Extension and	constitu-	3,269	0.9
tion. Improvement Exploitation		77,636	22·1 77·0
Famine Fodder	• -	1,53,330	
,			100
	Total	3,55,694 or 2,02,364 net	

III.—Expenditure B.

Particulars.	Charges:	Percentage.
Administration Executive Protective	Rs. 43,743 1,57,322 2,06,980	10·7 38·5 50·8
Total	4,08,045	100

Figures of the various divisions compared with figures of the last year are

· · · · · · · · · · · · · · · · · · ·	1	l 1			Ex		Not results.	
Division.		Year.		Receipts.	A	В		
	\ -		·	Rs.	Rs.	Rs.	Rs.	Rs.
Panch Maháls		(1914-15 } 1915-16		1,18,185 1,14,023	18,456 10,927	51,483 48,650	69,939 59,577	+ 48,246 + 54,446
Sura#	••	(1914-15 { 1915-16		1,76,163 2,32,603	1,09,483 1,12,298	59,728 62,734	1,69,211 1,75,032	+ 6,952 + 57,571
North Thána	••	{ 1914-15 } 1915-16	. ••	5,98,732 5,54,038	19,167 28,281	50,728 54,539	69,895 82,820	+ 5,28,837 + 4,71,218
Central Thána	. • •	{ 1914-15 { 1915-16	••	2,62,865 2,56,086	23,596 14,317	56,334 49,756	79,930 64,073	+ 1,82,935 + 1,92,013
South Thána	••	{ 1914-15 { 1915-16		0.09.400	13,700 14,924	61,883 63,525	75,583 78,449	+ 1,33,253 + 1,25,039
North Násik	••	1914-15 1915-16	•	E0 010	7,455 2,463	31,013 31,051	38,468 33,514	+ 16,586 + 26,305
South Násik	••	{ 1914-15 } 1915-16	• •	1 00 440	27,306 16,123	56,255 54,046	83,561 70,169	+ 63,701 + 98,273
Total*		{ 1914-15 } 1915-16		10 57 000	2,21,664 3,55,694	4,15,537 4,08,045	6,37,201 7,63,739	+ 9,31,575 + 8,93,264
Average of past five years		••••		15,77,916	3,10,125	4,07,058	7,17,183	+ 8,60,733

This is inclusive of the figures for the Direction, Working Plans and Famine Fodder Divisions.
 N. B.—In the following notes figures are rounded off.

Panch Maháls.—The decrease of Rs. 13,500 in coupe receipts was due to fewer coupes sold owing to less demand on account of local scarcity of rain which depressed trade and progress generally. Much material consequently remained on hand in Contractors' yards. Nevertheless rates remained steady for the amount was sold owing to good competition.

The increase of Rs. 5,750 under grass was due to better rates and more extensive purchase due to local scarcity in neighbouring districts.

An increase of Rs. 6,200 was realised under apta and temburni leaves (the normal figure being Rs. 3,500) owing to this commodity being sold by blocks instead of by ranges; probably because this method of disposal favoured small local men. The result is remarkable.

Surat.—An increase of Rs. 59,000 under departmental operations was due to better outturn from saw mills and better rates at sales on the station depôt (the figure is on gross receipts).

There was a decrease of Rs. 8,500 on dead and fallen trees owing to the smaller realization on conversion than estimated due to many trees proving hollow. (The figure is on net receipts and will probably be recovered in the next year.)

North Thána.—A decrease of Rs. 94,100 on last year's figures for coupes in spite of 3 extra being sold is attributed to dullness in trade due to the war.

Decreases of Rs. 1,800 on gurcharan sales in spite of more trees being sold and of Rs. 1,850 under bamboos were probably due to the same reason.

A decrease of Rs. 19,800 for malki trees sold was chiefly due to the smaller number disposed of.

The decrease of Rs. 4,000 under grass was due to a grant of forest land to a private milk concern and will be an annual loss to net forest revenue.

Central Thána.—A decrease of Rs. 12,850 on coupe sales was due to lower rates due to slack trade.

There was a decrease of Rs. 2,700 on gurcharan receipts, but rates were better than last year, the number of trees being proportionately fewer. The total quantity was small and probably the quality better.

A decrease of Rs. 2,300 on bamboos was due to dull trade.

South Thána.—An increase of Rs. 11,850 on coupe sales was due to better demand, more coupes finding purchasers while rates were maintained.

A decrease of Rs. 40,350 in gurcharan receipts is due to fewer trees sold.

North and South Násik.—These two divisions must be considered together owing to the Kalwan range changing hands from the one to the other.

An increase of Rs. 7,400 was due to more coupes being sold owing to greater demand.

An increase of Rs. 16,850 in malki sales is due chiefly to larger number of trees sold.

Increases of Rs. 5,100 and Rs. 1,750 on grass and grazing receipts respectively indicate a general rise in demand for fodder.

A decrease of Rs. 10,000 on mhowra seed is due to the war, also a continued loss of Rs. 2,000 on rosha grass. These products are said to have provided "Olive oil made in Germany" and the bases of Austrian perfumes respectively. If so, there is comfort in the loss.

The year represented the maximum local effect of the war on our forest revenue and there is cause for congratulation that it has not been greater.

Fortunately, forest sales of the last year were mostly concluded just before the war broke out, and its effect in that year only necessitated a granting of extra time for payment of a small portion (about 16th amounting Rs. 86,000) of forest dues in the year under report. Thus the effect was spread over the two years.

Since the close of the year under report the forest sales of 1916-17 have practically been completed, prices all round (the raw products for German olive oil and Austrian perfumes excepted) have shown a sharp rise practically to normal prices if not beyond (there has not been time for minute examination).

The magnitude in the fluctuations of receipts under different heads will convey some idea of the capital value of the forest estate and the value of the privileges enjoyed from it by the local people which is equal to what Government realise in revenue. That estate has still some valuable portions hardly touched. In "Gurcharans," "Traverse" numbers and "Protected Forests" there is

much latent wealth which only requires skilled management unfettered by prejudice and provided with reasonable staff and funds to add materially to the annual revenue for all time.

Central Circle.

Excluding famine fodder operations, the financial results of the past two years and the average of the five preceding years are as follows:—

Year.	Revenue.	Expenditure.	Surplus.
	${ m Rs.}$	Rs. Rs.	${f Rs.}$
1915-16	$7,72,218 $ $\left\{ \begin{array}{l} A. \\ B. \end{array} \right.$	$\left. \begin{array}{c} 1,04,365 \\ 4,00,991 \end{array} \right\} \ \ 5,05,356$	2,66,862
1914-15	7,77,531 { A. B.	1,27,320 4,07,938 5,35,258	2,42,273
1910-1911 to 1914-15.		1,39,743 3,78,519 5,18,262	2,12,590

(5 years' average).
and separating the jurisdictions of the two Commissioners the figures are—

Central Division.

Year.	Revenue.	Expenditure.	Surplus.
	${ m Rs.}$	$\mathbf{Rs.}$	$\mathbf{Rs.}$
1915-16	5,93,54	4,13,867	1,79,682
1914-15	6,26,41	4,36,504	1,89,907
5 years' average 🐇 .	6,07,47	74 4,16,560	1,90,914

Southern Division.

1915-16	• •	1,78,669	91,489	87,180
1914-15	• •	1,51,120	98,754	52,366
5 years' average		1,23,378	1,01,702	21,676

Thus a slight fall in revenue of Rs. 5,313, due to causes explained below, has been far more than counterbalanced by an expenditure decreased, by the necessity for economy, by Rs. 29,902, resulting in a net increased surplus of Rs. 24,589. For divisions under the jurisdiction of the Commissioner, Central Division, revenue in 1915-16 is less by Rs. 32,862 than that of 1914-15, and less by Rs. 13,925 than that of the five year average, results which are due mainly to the three Khandesh Divisions, where the effects of the war have been more pronounced than in Poona and Sátára. In the two latter divisions, although Sátára continues to show a deficit on the year's working, the demands on the forests are so intense, and markets so close to centres of consumption that the value of forest materials is steadily increasing, and appears likely to continue to do so independent of outside factors; in Khándesh, on the other hand, material is in excess of demand and markets are far off, and exceptional prosperity all round is necessary for produce to compete with that from centres of supply, such as the forests of Baroda and the Northern Circle, which are far more favourably situated for the trade towards the coast, in which direction much of the Khándesh material, more especially that of North and West Khándesh, would ordinarily go. The same arguments apply to the Kolába Division, under the jurisdiction of the Commissioner, Southern Division, where the proximity of the Bombay market guarantees an ever increasing demand for forest material and an ever increasing revenue.

As regards expenditure little need be said other than that the economies necessitated by the war less affected Kolába, where few roads and buildings are ordinarily constructed, than Poona, Sátára and Khándesh.

The financial results of the various divisions are commented on below:-

East Khandesh.—Revenue decreased by Rs. 9,864, and was also lower than that of any of the five years preceding. The main falling off was in sales of grass, and was due to circumstances already explained under the head "Grass and Grazing."

Timber and fuel showed slight increases of Rs. 1,967, which however was an outstanding of the previous year, and Rs. 4,872, the result of the constant demand which is ensured by the absence of any forests in the plains talukas. Decrease in expenditure was mainly under salaries.

North Khándesh.—Absence of demand for timber and fuel and poor prices obtained for rosha grass caused a decrease in revenue of Rs. 13,127 as compared with 1914-15, and of Rs. 25,940 as compared with the five year average. Curtailment of the roads and buildings programme resulted in expenditure being less by Rs. 5,426.

West Khandesh.—Rs. 27,345 less revenue than in 1914-15 was the result of the effects of the war, purchasers being unobtainable for the waste and malki numbers, the clearance of which is ordinarily the main source of income in the division. Economies on roads and buildings effected a decreased expenditure of Rs. 4,425.

Poona.—The surplus here was R\$. 74,217, as against Rs. 60,080 in 1914-15, and Rs. 38,041, the previous five year average, a state of affairs which is more especially satisfactory when it is pointed out the surplus owes nothing to decreases in expenditure, which have also risen, but entirely under establishments, from Rs. 73,162, the five year average, to Rs. 85,238 in 1914-15 and Rs. 88,562 in the year under report. The ever increasing demand for forest material in this division which has already been alluded to, and the rise in prices for the same, may confidently be expected to result in further progress in the future, at any rate so far as the forests themselves are concerned, but at the same time one item of revenue will disappear, viz., the proceeds of the lands which have been cleared for transference to the Revenue Department, a work which is now completed. Demand however is so great that forest areas hitherto unworked will certainly be called on to make good the deficiency. To the practically continuous and most efficient administration of Mr. Thomson during the last 4½ years the progress made is largely due.

Sátára.—A small increase in revenue of Rs. 1,803, mainly from grass and grazing, and a decrease in expenditure of Rs. 6,267 imposed by the necessity for economy in roads and buildings, was more than counterbalanced by increased establishment charges, and resulted in a deficit of Rs. 9,329 as against Rs. 9,181 in 1914-15. The forest resources of the division are extremely poor, but such as they are it is satisfactory to be able to report that the prospects of increased revenue in the current year are already assured.

Kolába.—This division exhibits most consistent progress. Revenue has risen from Rs. 1,23,376, the five year average, to Rs. 1,51,120 in 1914-15 and Rs. 1,78,669 in the year under report, while expenditure having decreased with changes in the pay of officers holding charge, the surplus has risen from Rs. 21,675, the five year average, to Rs. 52,366 in 1914-15 and Rs. 87,180 in 1915-16. These satisfactory results are due partly to fresh areas under the working plan coming under exploitation, but mainly to high demand and high prices realized for the coupes. In these Kolába forests, Government possess a property of great present and greater potential value, a state of affairs to which not only the proximity of the Bombay market and the easy access thereto by water, but also the excellence of much of the material in the forests contribute.

Further classification of the revenue and expenditure of the circle is as follows:—

I.—REVENUE.

			Receipts.	Percentage.
			Rs.	$\mathbf{Rs.}$
Major produce Minor produce		••	4,03,907 3,68,311	52·3 47·7
	Total	••	7,72,218	100.0

II.—EXPENDITURE.

Percentage. Charges. Rs. $\mathbf{Rs.}$ 6.6 Extension and constitution 6,934 60.963,608 Improvement 33,823 32.5Exploitation 100.0 1,04,365 Total В. 13.0 52,270 Administration 1,41,265 35.3 Executive

Protective

4,00,991 Southern Circle. The financial results of the year as compared with those of 1914-15 and with

2,07,456

51.7

100.0

Year. Rev		Revenue.	Expenditure	Surplus.	Percentage of surplus to gross revenue.	
		Rs.	Rs. Rs.	Rs.		
1915-16		19,95,685	A 7,35,480 B 4,04,419	8,55,786	43.	
1914-15		18,68,706	A 6,86,099	8,02,107	43.	
Average of 1909-10 1913-14.	to	16,69,402	A 6,29,263 B 3,43,599	6,96,540	42.	

The above will show that there was an increase in the receipts, expenditure and surplus of the year. The surplus of revenue is shared in by all the divisions except Kánara, Southern Division, and Ratnágiri. The percentage of net to gross revenue remained normal. The following table compares the receipts and charges of the year in detail according to budget heads with those of 1914-15:-

Budget heads.		Amo	ount. ,	T): a	erence.
Dudget noads.	1914-15.	1915-16.		erence.	
		Rs.	Rs.		
Receipts _I		12,81,448	13,74,332	+	92,884
\mathbf{II}		5,32,180	5,68,738	++	36,558
III	ا	925	459	_	466
\mathbf{IV}		11	1.1		
V		54,142	52,145		1,997
Total, Receipts	• •	18,68,706	19,95,685	+	1,26,979
Expenditure A. I		5,02,483	5,91,151	+	88,668
II .		7,292	7,050	<u>.</u>	242
. III	• •	158	62	·	96
\mathbf{VI}		12,447	12,475	-1-	28
VII		94,842	71,701	<u> </u>	23,141
VIII	·	51,980	43,171	+	8,809
IX		16,897	9,870		7,027
Total A	• •	6,86,099	7,35,480	+	49,381
Expenditure B. I		3,23,948	3,45,766	+	21,818
II		42,849	45,216	++	2,367
III	••	13,703	13,437		266
Total B	. •	3,80,500	4,04,419	+	23,919
Total, Expenditure]	10,66,599	11,39,899	+	73,300

Revenue.

It is most satisfactory to note that, notwithstanding the fall of prices due to the congestion of the timber market and absence of demand for timber, the total revenue of the year shows an advance of Rs. 1,26,979 over the previous year and of Rs. 3,26,283 over the average of the preceding five years; had all the material of the year realised its normal value, the receipts would have certainly beaten the record revenue of the year 1913-14 (Rs. 20,18,753).

The main revenue heads I and II are responsible for the increased revenue from larger quantities of material exploited and disposed of during the year. There are prospects of further increasing the revenue under these heads and it is hoped that, with increased facilities of extraction for the large locked-up forest capital and with the speedy and successful termination of the war followed by expansion and improvement of the timber market, the revenue will continue to improve year by year. The revenue under III and V is always variable and the small differences need no comment.

Expenditure.

The total expenditure under A and B increased by Rs. 73,300 over the last year's figure. The increase under A-I was due to payments of arrear contract wages withheld in the previous year for lack of provision and to payments of wages for larger quantities of timber and fuel exploited during the year. The curtailment of expenditure on roads, buildings, wells, sowing, planting and fire-protection with a view to economy during the war accounts for the decreases under A-VII and A-VIII. The decrease under A-IX was due to the smaller amount spent in payment of rewards to informers of forest offences and to smaller number of articles of uniform paid for. The excess under B-Establishments was in consequence of (1) a senior Imperial Officer holding charge of the Kánara, N. D., during the whole year, (2) a senior Imperial Officer having been appointed to Kánara, W. D., in place of a junior Officer gone on long leave, (3) a Sub-Divisional Forest Officer serving in Kánara, E. D., during the whole year and (4) increase in the rates of pay of officers and establishments under the time-scale. The variations under the other heads are trivial.

. The following statement shows the proportion of revenue and expenditure under the different heads:—

Particulars.	•		Total.	Percentage
Revenue.		_	Ra.	•
Major produce			17,54,450	88
Minor produce	••		1,89,089 52,146	9· 3·
		}	19,95,685	100
Expenditure $m{A}$.	•			,
Extension and constitution	•		6,630	9
Improvement Exploitation			1,08,242 6,20,608	14·7 . 84·4 ·
Exploitation		.	7,35,480	100
Expenditure B.	••			
Administration	••		55,839	14.
Executive	••		1,87,953 1,60,627	46• 40•
LIONERMAG		ŀ	4,04,419	100

The outstandings of revenue at the opening and close of the year were Rs. 2,55,995-15-1 and Rs. 4,92,395-9-8 respectively. Three items amounting to Rs. 359-8-8 were written off as irrecoverable revenue under the orders of the Conservator.

The outstandings due to the Department from contractors and disbursers amounted to Rs. 2,02,267-11-5 against Rs. 1,95,228-3-8 in the previous year.

The estimated value of timber and other produce in depôts rose from Rs. 8,48,942 to Rs. 10,85,650 and that of live and dead stock fell from Rs. 4,28,846 to Rs. 4,27,739.

Sind Circle.

The financial results of the year as compared with those of the preceding year and with the average of the past five years are as under:—

Head.	Average of last 5 years.	1914-15.	1915-16.	
Revenue	Rs. 4,10,937	Rs. 4,18,718	Rs. 3,79,875	
Expenditure A Expenditure B	43,575	42,745 1,79,389	32,511 1,83,151	
Total, Expenditure	2,09,376	2,22,134	2,15,662	
Surplus .	2,01,561	1,96,584	1,64,213	

The decrease in gross revenue is due to the following reasons:—

- (a) The coupe revenue of the year being greater and the collection of such revenue being spread over two years Rs. 17,000 more than last year are outstanding and will be collected in 1916-17; also poor results were obtained by the sale of coupes in the Jerruck Division.
- (b) A less quantity of fuel was supplied to the Government steamers on the Indus.

The decrease of Rs. 10,234 under A—Conservancy and Works is due to the postponement of new works on account of the war.

The increase of Rs. 3,762 under B—Establishment is due to increase of pay to officers of the Imperial and Provincial Services, to members of the clerical establishment under the time-scale and also to the grant of Sind allowance to Mr. Robinson (vide Government Resolution No. 3060, dated 19th August 1915).

The revenue and expenditure of the year are further classified as follows:—

I.—Reve	NUE.		
Particulars.		Receipts.	Percentage.
•		${ m Rs.}$	${f Rs.}$
Major produce		2,70,665	71
Minor produce	• •	1,09,210	29
Total		3,79,875	100
II.—Expend	ITURE	A .	
Particulars.		Charges.	Percentage.
•		Rs.	
Extension and constitution	••	• •	• •
Improvement	• •	26,334	81
Exploitation	•	6,177	19
Total		32,511	100
III.—Expend	ITURE	<u>-</u>	
Administration		32,456	. 18
Executive		78,925	43
Protective	• •	71,770	39
Total	••	1,83,151	100

The revenue outstanding on 30th June 1916 was Rs. 77,510 against Rs. 60,706 on the same date last year. This represents instalments payable by coupe contractors and others which are not due or recoverable until after the close of the year.

Bhai Jethmal had to pay Rs. 6,500 on account of the lac contract of the Jerruck Division for 1908-09 of which Rs. 4,285-5-11 have been recovered and credited. The Collector of Hyderabad has been requested to recover the balance.

The Commissioner in Sind has been requested to sanction the writing off of the sum of Rs. 3,038-4-0 due from Mr. Chandiram Karamsing as an irrecoverable revenue.

CHAPTER IV.

ADMINISTRATION.

Northern Circle.

The charge of the circle was held by Mr. W. F. D. Fisher throughout the year. Divisional Charges were held as follows:—

Till 3rd December 1915 ...Mr. R. W. Inder. Panch Maháls. . { From 4th December 1915 till 30th June 1916 Mr. W. C. Milne. Till 19th January 1916 ... Mr. G. E. Marjoribanks. Surat From 5th May 1916 till 30th June 1916. Mr. R. W. Inder. North Thána ... { Till 1st December 1915 ... Mr. J. B. Brooks. From 2nd December 1915 to 30th June 1916 Mr. W.E. Copleston. Throughout the year Mr. B. H. Dalal (except for six weeks' Central Thána... privilege leave when Mr. Copleston held charge in addition). South Thána ... Throughout the year.: Mr. P. E. Aitchison. Mr. D. R. S. Bourke. South Násik ... Do. ٠.. North Násik ... Mr. H. A. Bhadbhade. Till 3rd December 1915 ..Mr. W. C. Milne.

Working Plans... Till 3rd December 1915 ...Mr. W. C. Milne.
From 4th December 1915 till 4th May 1916...Mr. R. W. Inder.
From 5th May 1916 to 30th June 1916 ...Mr. P. E. Aitchison.

All Divisional Forest Officers worked well. Mr. Marjoribanks' transfer to the Southern Circle was a material loss to this circle which just after the close of the year became the more serious by the departure for military employ of his successor in Surat (Mr. R. W. Inder) who had not only been selected for that charge but had for its sake been given special facilities to tour in it with Mr. Marjoribanks for a period of six weeks before handing over charge in order to preserve continuity in a charge of prime importance, both from forest and political aspects.

Sub-Divisional Officers.

- Messrs. B. J. Patel, R. K. Kanitkar and V. G. Bhalerao were employed in Panch Maháls, Surat and Central Thána respectively, throughout the year, except that Mr. Patel was lent to Balasinor State from 20th January 1916 to 3rd March 1916.
- Mr. L. S. Koppikar served in North Thana till 1st December 1915 when he proceeded on sick leave till 4th June and on his return acted as Personal Assistant to the Conservator.
- Mr. K. B. Gokhale served in South Thána till 25th August 1915 when he died suddenly.

Mr. D. N. Damle served in South Násik till 30th November 1915 when he took leave prior to retirement.

Mr. K. E. Kotwal was attached to the Working Plans Division till 21st September from which date till the close of the year he was Sub-Divisional Forest Officer, South Thána.

All worked satisfactorily, Mr. Kotwal especially doing well at working plan

All divisional offices were examined during the year except North Násik, which has been examined since.

The office establishment worked satisfactorily on the whole. The standard of efficiency is not what it should be, and if it were, two-thirds of the present number of clerks would be sufficient. Much more economy in routine work is also possible. Mr. Anderson's system of record would probably be suitable for introduction. Special study is being made of this, and when a man as Superintendent of record is available the matter will be taken up.

The protective staff throughout the circle is, with exceptions, very inefficient especially in control. Rangers and Foresters have too large charges. The result is that while the uses to which Provincial officers can be put is limited, the guards are lazy, indifferent and lacking prompt obedience. Thus the Divisional Officers carry a burden that hampers progress and is most disheartening. Of course some Rangers and Foresters have done very well. Among the former Mr. Kazi in Panch Maháls, Messrs. Mankikar and Dubhashi in Surat, Mr. Sathaye in North Thána, Mr. Nagarkar in Central Thána, Mr. Tendulk r in South Thána and Mr. Kundalkar in South Násik merit special mention.

During the year six ranges were sub-divided, thus creating six new range charges. This helps control but does not provide more establishment.

Casualties.—Deaths 25 (being 21 per cent. of the total staff, viz., 1 Provincial Officer, 1 Ranger, 5 Foresters, 18 Guards); retirements 18; resignations 16; total 5 per cent. (These figures are about normal.)

Discipline.—Dismissals 14, services dispensed with 21, degradation 11, fined 174, total 20 per cent., which figures are about normal.

Recruitment.—While the standard of applicants for Ranger recruits is good and numbers ample, there is great need for open recruitment of Foresters. It is hoped to initiate this system shortly as the guards' grades do not form a suitable recruiting ground for Foresters. The limit of Rs. 12 for beat guards must be raised to Rs. 15 if we wish to obtain suitable though illiterate men, especially in the very valuable Thána District. Vacancies in the guards' grades will, it is hoped, also be open by public notification of vacancies, and all "Umedwars" and candidates prohibited, acting men in the lowest grade having no more claim than any other applicant, for these are the doors by which the inefficient and otherwise undesirable now wriggle into the Department.

The same is true of the senior clerks' grade. Umedwars, candidates and others have usually secured acting appointments and become confirmed without any enquiry whether more suitable persons are available, with the consequence that now it is difficult to find men suitable as head clerks and inefficient men have secured several of these important posts. Last year for the first time public notice was given for applicants to fill two vacancies in the senior clerks' grade. About 30 applicants appeared, about 7 were admitted as qualified and out of these two were eventually selected. Even thus the standard might have been higher, but it will doubtless improve when such opportunities of securing Government service are better known, and the back door found closed.

The junior clerks' grade is the most unsatisfactory in the whole service. Any man who can do the clerical work in a range office is good enough though a working knowledge of English is desirable. Yet the idea has got about that the junior clerk grade is the recruiting ground for senior clerkships. In reality it is the most undesirable source for recruitment to the senior places. These junior clerks are recruited on Rs. 20 and are expected to spend the rest of their lives on the same pay. If they were recruited on Rs. 15 and had a yearly increment of 8 annas to Rs. 30, probably the difficulty now experienced would disappear.

Training.—The training our Ranger probationers get at Dehra Dun is a very great asset, though training at a Presidency centre would have still greater advantages. Such a Presidency training centre for Forester probationers similarly selected would be invaluable. The local Forest Class has had to be abandoned for many reasons. Of these the shortness of the course and absence of a practical period, the unsuitability of the instruction, and fundamentally the absence of suitable men to receive instruction made such action imperative. When we realise that a comparatively small outlay and a little organization would quadruple the value of our staff, it is difficult not to be impatient for their advent.

Even for clerks some methodical instruction is required, apart from any system of examination of selection for first appointment. A material portion of present routine work of all offices is the correction of mistakes or the disposal our clerks have in their business. Day after day and year after year the same mistakes, silly, ignorant, careless mistakes, are made just because new clerks office routine would add vastly to the value of each individual in the office, and by friction.

The relations of Forest with Revenue officers have been satisfactory in all districts.

Central Circle.

Mr. L. Napier held charge of the circle throughout the year except for the period from 22nd September to 1st November, when he was deputed on special duty for famine fodder operations, and Mr. D. A. Thomson, Divisional Forest Officer, Poona, held additional charge.

Messrs. R. P. Da'ley and R. V. Pethe were Divisional and Sub-Divisional Officers in East Khándesh throughout the year.

In North Khándesh Mr. H. W. Starte held the division and Messrs. B. J. Joshi and G. R. Patkar the sub-division.

Mr. A. F. Gonsalves held West Khandesh from the beginning of the year to December 7th, and again from April 25th to the close of the year. In the interval Mr J. B. Brooks was in charge, ill-health causing him to take leave. Mr. R. A. Shirali held the sub-division.

Poona was held by Mr. D. A. Thomson with Messrs. T. N. Koppikar, B. J. Joshi and A. N. Master as Sub-Divisional Officers for varying periods.

In Sátára Mr. C. E. L. Gilbert held the division combined with the duties of Superintendent of Mahábleshwar, and Mr. E. O. Sampson was Sub-Divisional Officer from October 20th.

In Kolába Messrs. C. G. Dalia and G. S. Dangi were Divisional and Sub-Divisional Officers throughout the year.

Mr. V. D. P. Rebeiro was Divisional Forest Officer, Working Plans.

One Ranger joined the circle from Dehra Dun, having obtained a Higher Standard certificate with honours, and two students were sent there for the 1916—18 course.

The Foresters' class of 11 students was held in Poona with Mr. Sampson as Instructor in addition to his duties as Sub-Divisional Officer, and 10 passed the examination.

In East Khándesh the services of a Ranger had to be dispensed with for general inefficiency and such gross laxity as to make possible the criminal misappropriation of Government funds which led to the prosecution and conviction of his clerk as referred to in last year's report. Another Ranger in the same division was reduced to Forester for persistent neglect of duty. Both were trained Rangers of the Poona Forest class and of considerable service. In Satára a guard was convicted of criminal misappropriation and sentenced to one month's imprisonment.

Casualties were 17 deaths, 19 resignations, 41 dismissals and services dispensed with, and 35 retirements.

One civil suit was instituted against Government by a contractor in North Khandesh for cancellation of his contract by the Forest Department on account of his misdeeds, but is not yet decided.

Recruitment for the protective establishment showed no improvement in the class of men coming forward, the difficulty being especially felt in Kolába and in Khándesh. In the former the Bombay labour market, with its high wages, absorbs all who want work, in the latter those who are willing to take forest employ are too illiterate and irresponsible to be of much value under the conditions of service at the present day. Recruitment of junior clerks is also a difficulty,

and not a few unqualified men have perforce to be employed. The prospects of stagnation for several years in a range office on the same pay offers few attractions to good men.

With the exceptions above mentioned the protective establishments worked

on the whole satisfactorily as did also office establishments.

Relations between the Forest and Revenue Departments were everywhere most satisfactory and few compaints were made as to the inadequacy of punishments inflicted by Magistrates on offenders in forest cases.

All Divisional Officers worked with great energy, and without except on were well supported by their Sub-Divisional Officers, a fact to which the Conservator can testify from personal observation. The services of several Rangers have received special commendation in divisional reports, and due consideration will be given to such men as opportunity occurs.

The Akrani Pargana was administered by the Divisional Forest Officer, North Khandesh, with the Range Forest Officer as ex-officio Mahalkari. A simple working plan is in force to supply the people with fire-wood free and hutting material at low rates, and for the present this meets all requirements. No further exploitation is at present carried out, although on the east of the Pargana there are valuable teak areas which would not only be the better for being worked, but which would yield a good return were there any means of getting the produce to market. This however cannot be the case until the road from Shahada referred to earlier in this report has been constructed. The Divisional Forest Officer brings to notice again the urgency for the provision of a Government dispensary Sickness is rife in the Akrani, and Government servants are dependent on the Taloda dispensary 28 miles distant. The Swedish Mission is accomplishing much good work, more especially amongst women and children, but their limited means need supplementing by a Government institution. The area under cultivation is steadily increasing, the assessment received having risen from Rs. 2,507 to Rs. 3,356 in the last four years; the Collector has called for a report from the Divisional Forest Officer as to the necessity of increasing the assessment and the advisability of introducing the permanent revenue settlement. Rs. 4,000 were advanced as tagai, the demand for the same being less by Rs. 2,520 than in the previous year; but, on the other hand, recoveries of tagai outstandings considerably increased, facts which taken in conjunction with the increased area under cultivation point to a steady rise in prosperity. The rainfall was satisfactory, crops good and there were no epidemic diseases. The Government stud bulls, one Sonkairi in charge of a patil and one Khilari in charge of the Reverend A. P. Franklin, covered 57 cows, of which 37 of the produce are living and healthy; both bulls however are said to be somewhat too large a variety to be suitable for the local cattle. The primary school at Dhadgaon is doing well, but a second one at Kamod is not popular. The Range Forest Officer is invested with 3rd class powers for the trial of Abkari cases, and 5 offences were disposed of by him during the year, all resulting in convictions; the result of it being possible to dispose of such cases within the Pargana itself should lead to a reduction in this class of offence.

The Collector in his review of the Divisional Forest Officer's report writes that "Mr. Starte has given an interesting account of the Akrani, which he has administered successfully during the year."

As regards reports from other divisions all special comments made by the Collectors have been noted in various paragraphs above.

Southern Circle.

The charge of the circle was held by Mr. T. R. Bell throughout the year.

The charges of forest divisions and sub-divisions were held by the following officers:—

Kánara, N. D. ... Mr. J. Dodgson ... Mr. R. A. Hemmadi. ... Kánara, C. D. ... Mr. G. S. Butterworth.

(newly formed on 1st February 1916).

Sub-Division. Mr. G. S. Butterworth for 7 months.Mr. S. B. Bendigeri. Kánara, S. D. Mr. S. P. Limaye for 5 months. Mr. A. C. Hiley for 10 months. Mr. Marjoribanks for 2 months. Mr. A. G. Edis (in addition to his Mr. R. R. Hattiangadi. charge of Kánara, E. D.) for 41 Belgaum months. Mr. E. M. Hodgson for 7½ months. Mr. G. R. Duxbury (old Dhárwár Mr. T. N. Koppikar (new Division, 7 months and new com-Dhárwár-Bijápur Sub-Division from bined Division, 2 months). (combined Divi-27th January 1916). Mr. S. P. Limaye (old Bijápur Division from 1st sion, 7 months). February 1916). Mr. T. N. Koppikar (new combined Division, 3 months). Mr. W. W. Smart, I.C.S., Collector, 7 months. Ratnágiri. Mr. J. P. Brander, I.C.S., Collector, 5 months.

Working Plans Divi- Mr. W. A. Miller. sion.

Changes.—Mr. Duxbury was transferred to Sind as Deputy Conservator in charge of that circle, Mr. Hiley went on 6 months' leave and Mr. Hodgson returned from leave during the year.

Mr. M. S. Tuggarse, Ranger, Ankola in Kánara, C. D., promoted to the Provincial service during the year, continued in charge of the range.

Forest Students—Dehra Dun.—The candidate Mr. Madan Lal Khanna, nominated by Government for the Provincial Service course of 1916—18, satisfactorily underwent his 6 months' practical training in this circle and joined the Imperial Forest College in July 1916.

Rangers' Course of 1914—16.—Of the two candidates nominated, one left the course soon after joining and the other passed out with a Ranger's certificate and was posted as a Ranger in the Belgaum Division.

Rangers' Course of 1915—17.—The two candidates sent up are due back in April 1917. They are said to be doing well.

Rangers' Course of 1916—18.—Five candidates were sent up during the year.

Vernacular Forestry Class, Belgaum.—The Forestry Class, Belgaum, was, as usual, conducted by Mr. Hattiangadi, Sub-Divisional Forest Officer, Belgaum, in addition to his own duties. For the Foresters' course of 1915 there were 7 students picked out from guards' grades of the several divisions, all of whom passed.

Inspection.—All the divisions of the circle except Ratnágiri were visited by the Conservator during the year, and all the divisional offices in the circle, and 20 range offices, 68 round offices, 10 depôts and 44 nakas in the Kánara Divisions were inspected by his Personal Assistant with a view to establish uniformity in procedure and office work.

Casualties and Punishments.—The casualties and punishments in the subordinate service were:—

,			Casualties. Punishments.				Punishments.			
Year.	Deaths.	Rosig- nations.	Dismis- sals.	Retire- ments.	Degra- dations.	Suspen- sions.	Fines.	Prose- cutions.	Total	
1915-16 1914-15	• • •	16 9	38 19	46 68	22 14	31 28	29 24	396 358	9	587 529

Criminal Offences.—The particulars of the nine prosecutions instituted during the year are :-

Division.	Subordinate prosecuted.	Charge.	Result of prosecution.			
Kánara, E. D. {	1 Forester and } 2 Guards.	Torturing a man to extort confession in connection with a fire case.	3 years and 2 years' rigorous imprisonment: they are said to have appealed to the High Court.			
•	I Guard .	Taking bribes to hush up a forest case.	4 months' rigorous imprisonment.			
	1 Guard .	Robbing a Forester living in the same naka with the Guard.	1 year's rigorous imprisonment.			
	1 Forester .	Taking bribes	Acquitted.			
Kánara, S. D	1 Forester and 1 1 Guard	Taking bribes to hush up a forest case.	Discharged, but dismissed department ally; 7½ months' rigorous imprison ment and Rs. 100 fine.			
Belgaum	I Guard .	Illicit sale of two teak poles	Convicted, and being a juvenile offender was let off on his furnishing a security for good behaviour for 6 months.,			

	1915-16.		1914-15.
Game licenses issued	48		58
Breaches of game rules brought to light	4		2
Fine recovered for breach of rules Rs.	155	Rs.	50
Rewards distributed for reporting illicit ,,	50	"	150
shikar.	r		

The revised game rules, sanctioned for the Southern Circle shortly before the close of the year, are being introduced.

The relations between the Forest and other Government Departments were throughout most satisfactory.

Land Revenue Administration.

Kánara, E. D.—The Bilki Mahal of the Yellápur Taluka was administered by the Divisional Forest Officer as Assistant Collector and by the Range Forest Officer, Bhartanhalli, as Mahalkari. The Divisional Forest Officer, Mr. Edie, states that it would be better if the Divisional Forest Officer were given magisterial powers and the powers of a Forest Settlement Officer in the Mahal. His further remarks are—

"The creation of this Mahal has made it much easier for the Forest Department to get the people to come on forest works. The people seem to be quite contented under the control of this Department."

Belgaum Division.—The Belgaum Range Mahál and the Khánápur West Range Mahál were administered by the Divisional Forest Officer, Mr. Hodgson, as Assistant Collector and by the Range Forest Officers of the respective ranges Efforts were made towards inducing the villagers to help with forest operations. Mr. Hodgson is taking a keen interest in the administration of the kumri villages under his charge. In Government Order No. 5249 of 22nd May 1916 he was appointed as Forest Settlement Officer for the Khánápur Forest

The management of the Devikop Forest Mahál has presented no difficulty during the year.

The following new forest maháls were sanctioned during the year to be constituted from 1st August 1916:-

		Forest Mahál.	No. of villages.	Mahálkari.
Kánara, N. D.	Haliyal.		12	Range Forest Officer, Virnoli.
		Kulgi	11	Range Forest Officer, Kulgi.
Kánara, E. D.	Vallánun	Dandeli Kinnatti	23	Range Forest Officer, Dandeli.
Kánara, W. D.	Kárnás	Lirwatti Supa	, 8	Range Forest Officer, Kirwatti,
· · · · · · · · · · · · · · · · · · ·	Mainai	prina	120	Mahalkari of Supa.

The Divisional Forest Officers have been appointed ex-officio Assistant Collectors within the limits of the respective maháls.

Services.—The executive and clerical staffs have worked satisfactorily during the year and I should like to mention particularly the services of Messrs. Chandavarkar, Hemmadi and Taggarsee, Extra Assistant Conservators, amongst the former—Mr. Chandavarkar for hard and careful work in the inspection of all the divisional, range and round offices of the circle during the last two seasons. He is my Personal Assistant and was deputed to see that all the recent orders issued for the more systematic and economical working of all branches of forest work were being properly carried out as regards the keeping of registers, forms and other necessary means of control and the reduction within reasonable limits of correspondence and clerical work in the ranges, rounds and beats. Mr. Hemmadi I commend for energetic assistance rendered to his Divisional Forest Officer and Mr. Taggarsee for good work in sylvicultural operations.

Amongst the clerks Mr. Bellare of my own office has kept up his reputation for good, hard work; and Mr. R. S. Nagarkatti, who was my camp clerk during much of the season, is a hard-working, conscientious and reliable member of the establishment. Mr. Hodgson speaks highly of his Head Clerk, Mr. A. N. Saldanha, and I can vouch for the fact that he is correct in doing so. The best Rangers we have got are Messrs. V. N. Hasabnis of Virnoli, V. S. Kanitkar of Bhartanhalli and J. D. Rego of Mundgod.

Sind Circle.

The Sind circle was in charge of Mr. E. G. Oliver from 1st July 1915 to 13th November 1915 when he took a month's leave, Mr. Newman acting in the circle in addition to his own duties. Mr. Oliver went on furlough on the 15th April 1916 and Mr. G. R. Duxbury held charge to the end of the year.

All Divisional Forest Officers and Sub-Divisional Officer, Sukkur, have worked well throughout the year. Owing to the low inundation and the absence of rain the year was a trying one, the forest being difficult to protect against grazing and fire.

The work of the Range Forest Officers left much to be desired in the Sukkur Division, especially in the Kot Sultan, Sukkur and Rohri Ranges. Incapacity for vigorous outdoor work was the standing defect. Most of the Rangers sent to Upper Sind at once complain of the climate and try to get sent away. Some of the present Sind Rangers have no real liking for the active life of a Forester. There are exceptions; Messrs. Bulchand Parumal, Rodrigues and Nenumal in the Jerruck Division have shown exceptional good work, while Messrs. Pinto and Badlani in Sukkur and Messrs. Dalpatrai and Kotumal in Larkana have been praised by their Divisional Forest Officers.

The office establishment have worked well and to the best of their ability. In the circle office my predecessor specially praised the work of Mr. Imdadali Mahomed Ashraf Kazi, Head Clerk, and Mr. Ramchand Manghanmal, 2nd Clerk. Arrangements have been made that all clerks capable can learn account work; at present this work has remained in the hands of a few.

Only the Divisional Forest Officer, Jerruck, reports an improvement in the efficiency of the lower protective establishment. The class reported as most necessary to improve is the class of Sub-Ranger, both as regards education and

Two Government stipendiary students (i) Gulam Mahomed Abdul Hamid Kureshi, and (ii) Parsram Khemchand Mirchandani were sent to Dehra Dun for training as Rangers.

The casualties of the year were as follows:-

	-		Casualties.				Discipline.				
Division.		Deaths.	Retire-	Resig- nations.	Dismis sals.	Services dispensed with.	1 toma	Degra- dations.	Fines,	Super- sessions.	Percentage.
Sukkur Lárkána Hyderabad Jerruck	• •	1 2 3 1	4	5 3 3 19	18 5 2 15	2 3 4	17·7 15·1 13·09 43·5	16 9 4 2	62 18 21		46·1 40·9 4·76 25·0
Total	ŀ	7	5	30	40	9	22.5	31	101	•	29.2

Mr. Lekhraj Lachiram, Head Clerk, died of consumption in Hyderabad Division.

A Sub-Ranger died of pneumonia in Lárkána Division.

One forest guard died of fever in Sukkur Division and another of sunstroke in Hyderabad Division. In Jerruck there was one death and one retirement.

In Larkana a guard was assaulted and murdered in Dosu forest when catching thieves illicitly cutting wood. Another guard in the Garhi Yasin range has been missing since 15th March 1916; the Divisional Forest Officer reports that it is believed that the man has been murdered and the corpse buried in the jungle.

Forester Gobindram Jechandrai was dismissed for bad protection work in the Rohri range of the Sukkur Division.

· The relations between the Revenue and Forest Departments continued to be satisfactory.

All range offices and ghat records were inspected by their respective Divisional Officers and some by the Conservator who also examined all divisional offices during the year.

Good progress was made during the year in the classification of both English and vernacular records.

CHAPTER V.

GENERAL REMARKS:

Northern Circle.

Panch Mahals.—The Divisional Forest Officer calls attention to the increasing demand for land for cultivation, especially for cotton crop in the Halol Táluka. The Charans—professional graziers—are among the applicants and much of the land allotted to them as grazing grounds is suitable for such cultivation, but they are bad cultivators.

The Collector makes remarks and suggestions on the same subject.

The Conservator will confer with both officers on the subject and on cognate matters which are of equal importance. If practical proposals can be formulated, they will be duly incorporated in a full report to Government.

The Collector draws attention to surplus irrigation water available and suggests its utilization for forest nurseries.

The Conservator thinks that general experience warns us that a year of severe scarcity of rainfall might at a blow wipe out the labour and expenditure of many years. But the matter will receive his attention and consideration during his tour this autumn.

Surat.—The Divisional Forest Officer having been in charge for a very short time refrained from any remark.

The Collector writes :-

"The undersigned made several camps in the Dángs and was much impressed by the signs of efficiency and progress that was noticeable everywhere. Road-making in particular is receiving the attention it deserves, and the results reflect credit on all concerned; Mr. Marjoribanks has administered the Dángs for five years with energy and tact, and his name will not be forgotten there."

The Conservator cordially endorses the Collector's remarks.

North, Central and South Thana.—There was an absence of any outstanding feature of the year except an attempt to organize better control by the protective establishment by the formation of five new ranges already mentioned in this report, but little real improvement can be made until funds for the establishment are better utilised and subsequently added to. Scientific forestry is impeded accordingly and though rising prices obscure facts serious loss in the future must result.

The Collector suggests a liberal scale of rewards for detecting offences of illicit cutting. The Conservator fears the results would be illusory and the main trouble remain unaffected. Essential control is lacking, and no rules, orders nor mere prescriptions will take the place of efficient staff, authority and funds.

The other important matter the Collector touches on is the control of gurcharans. It is not thought advisable to put this vastly valuable woodland property into the hands of the Forest Department. It is suggested that "a trained Forest Officer with a small staff should look after the Thána gurcharans under the orders of the Revenue Department." When it is considered that these gurcharans are generally adjoining reserved forests, indistinguishable from them except by cut lines and boundary pillars, it is not clear why it is necessary to have a separate staff for their control. Additional staff for the forests is necessary, and given that, the added control of gurcharans would only make for efficiency all round. The Thána gurcharan corresponds exactly with the protected forest of the Dángs except that latter includes the cultivation as well. What is required would seem to be a better utilization of the Forest Department generally and of the Divisional Forest Officers in particular. They are under revenue control in every instance, and experience shows that the more intimately they are in touch with the people the smoother and more economical the running of the administrative machinery.

Lastly the Collector deplores the destruction of malki injaili, but that is a trivial matter compared with the control of gurcharans, and would probably be largely mitigated were the intelligence of the Forest Department brought in closer touch with the needs of the people as above indicated.

South Nasik .- The Divisional Forest Officer remarks :-

"The position of the protected forests of Peint Táluka is in my opinion

very unsatisfactory.

These forests form an extensive and very valuable property of more than 55,000 acres in extent. They should be put under some sort of regular sanctioned working plan as soon as possible, their management should be entirely in the hands of the Forest Department, and the coppice shoots resulting from the fellings should be kept and sold by Government under a regular plan. The detailed facts of the case have already been reported." The Collector in forwarding the report writes:—

"Mr. Bourke's report is most interesting. It is a pity that such a keen and observant officer could not stay longer in this charge, the importance of which has in my humble opinion never been sufficiently appreciated. I believe that the forests of Peint are a most valuable property and at present almost wasted for want of expenditure on communications. It is practically the same country as the Surat Dángs, but while the latter has got everything it wanted, Peint has unfortunately escaped notice and has got very little.

I entirely agree with what Mr. Bourke says in paragraph 90 about protected forests in Peint, but the matter has been dealt with separately."

The Conservator thinks Mr. Bourke's observations and conclusions as regards the Peint Range are correct in the main. Sylviculturally they are only new as applied to that area. Similar observations and conclusions by others form the basis of recent working plans sanctioned and under preparation in other parts of India including the revised working plan for the Thána District. The report referred to by Mr. Bourke is with the Conservator pending the inspection of the Peint forests this season both by the Conservator and Working Plans Officer, if possible.

Mr. Bourke's comparison of the liberality of provisions for the development of the Dángs with the apparent total neglect of the very similar property in Peint breaks down in failing to recognise the fundamental factors of justification and success of the liberality of provisions granted to the Dángs, viz., the selected Divisional Officer, his powers and general administrative position. The success in the Dángs could be repeated and even surpassed in Peint if the Divisional Forest Officer were similarly qualified and paramount there. It is what the country requires and it is hoped the matter will receive favourable consideration when the special report is made. The preliminaries are in hand.

North Násik.—There is no matter of special remark at present.

The feature of the year has been economy on account of war, but an error (if any) has been made by overcurtailment in expenditure of funds originally sanctioned for development. It is a difficult question for the Conservator who feeling the pressing needs of local works has felt bound to surrender the utmost for the war.

Central Circle.

A year which at one time threatened to be overshadowed by famine, with its attending results of dislocation of trade and diversion of the energies of the Forest Department from their duties proper to the conduct of famine fodder operations, was eventually redeemed by the unprecedented and unexpected rainfall in October, thus enabling satisfactory progress to be made in the exploitation of the forests and in the collection of revenue. The war however put an end to progress in the important works of the development of communications and the housing of the forest establishments.

As regards famine fodder operations no detail is called for here other than that the 25 lákhs lbs. of grass in reserve in West Khàndesh was of the greatest value in meeting the requirements of famine-stricken areas in Gujarát and Káthiáwár; the reserve has been duly renewed by Mr. Bhiladwala under his contract with Government. The timely rains put a sudden end to the further large operations for the supply of grass that had been arranged for in Poona, Kolába, and West Khándesh, not, it is true, without considerable financial loss to Government, due to those operations being already in train and to the necessity of paying compensation on the contracts that had been made, but at the same time at a loss that was trifling compared to the direct and indirect loss that a continued absence of rain would have caused.

Speaking generally, it may safely be said that given normal conditions for trade, the further progress of the forests is assured. Their nature and location offer less scope for large schemes of development than elsewhere, but the demand on them is steadily increasing. The enquiries of the Industrial Commission may open out fresh markets for minor products such as tanning materials, rosha grass and mhowra seed, but not, it is expected, to any great extent; the main revenue of the circle must always be derived from the small timber, fuel, and grass which alone the forests are capable of producing, and which local markets will absorb. And it must be remembered also that fresh industries would encroach on the already all too limited labour market, and so while beneficial in one way, would react unfavourably in others. The needs of the circle are continuous: fire protection in Khándesh to bring the forests into the improved condition of which they are undoubtedly capable of being brought, and a steady policy of road development on the comparatively restricted scale which will meet the requirements of each ensuring period of years.

Southern Circle.

The year has been full of promise for the development of the forests in the circle, more particularly for those of Kánara District and those portions of Dhárwar lately transferred to the Northern and Eastern Divisions thereof. The creation of a fifth division in Kánara and the consequent interchanges of area has already been fully explained in the body of this report (section 1 of Chapter I.) Although the fifth division was administratively necessary from a purely forest point of view, the existing charges being too extensive for proper management by one Divisional Forest Officer, its creation would not have been sanctioned had the case not been strengthened by a scheme for the amelioration of the condition of the Kunbi Marathas in the Supa Petha submitted to Government by the Collector of Kanara. Under this scheme, Supa is now a forest mahal with the Divisional Forest Officer, W. D., as Assistant Collector. The fifth division and all the changes connected therewith has entailed no extra cost to Government beyond the pay of 5 peons or puttewallas. The Bijápur Division has been added on to the old Dhárwar Division minus the portions transferred to Kanara, E. D. and N. D. and forms the new Dhárwár-Bijápur Division. Thus the number of divisional charges in the circle is the same as before and, while the areas of the five in Kánara have decreased and become more compact, that of Dhárwár-Bijápur has increased both in size and in the number of component parts or blocks of forest separated by long dis-It is a most unmanageable charge as it stands now.

The general necessity for making the most of all the resources of the empire likely to produce revenue having become apparent during the course of the war in Europe, enquiries have also been started into the possibility of further development of the utilization of forest produce. The Commissioner of the Southern Division, visited the Kánara jungles during the season and made notes with this object. These notes became the subject of correspondence between him and Government with the result that it seems to have been recognized that Bombay possesses in its jungles a source of potential revenue the existence of which has up to the present been more or less unknown to those unconnected with the direct management of the forest estate. A scheme for a light railway to tap the eastern parts of the Eastern and Central Divisions of Kánara is being considered by Government, to run from Hubli via Kalghátgi to Mundgod. This is to be built by private enterprise. The scheme for the Dandelli-Bhistenhatti Railway which is to be built by Government and which has been the subject of correspondence for years past was again postponed for want of sanction to Rs. 5,000 for a regular survey by an experienced Railway Engineer.

His Excellency the Governor of Bombay in the month of May visited the Northern Division of Kánara where the line is to be built and devoted several days to an inspection of the forests and work going on with the result that the money has now been provided after the close of the year. His Excellency went into the matter of forest development on the spot and summoned the local forest officers to a conference at Astoli which was also attended by the Commissioner. As a result of this, the Conservator was ordered to prepare a statement of requirements for the fuller working and general development of the Kánara jungles. This has now been submitted and it is hoped that, in due course, means will be provided for at least a beginning to be made towards the realization of part of the interest on the enormous capital locked up in these forests.

The seeding of the dowgi bamboos (Bambusa arundinacea) is practically complete; a few small areas still remain alive in certain nallas in the Kalinadi valley in W. D. Kánara. It is probable that all will be dead even there in the next two years. Enquiries have been started bearing upon the utilization of bamboopulp for paper and Government have under consideration certain schemes for the installation of factories for the purpose in the Kánara District.

Tanning materials have also received some share of attention and Mr. Pilgrim, the Government tan-extract expert, visited Belgaum shortly after the close of the year to report upon the question of their utilization. A preliminary report has been submitted.

The services of an Engineer, Mr. Haines, Executive Engineer, Dhárwár, were temporarily lent to the Forest Department to examine the bed of the Kalinadi river above the tideway as far as the Holegadde slide in Gund, W. D. Kánara,

with a view to improving the waterway for floating timber. Before Mr. Haines could do anything with the Kalinadi it was found imperative, in the interests of immediate revenue, to open a channel in a tributary, the Kaneri nalla, to relieve the glut of logs on the road to the Holegadde slide and on that slide itself. Large arrears of logs had accumulated on the further side of Gund above the Kaneri nalla from past years and, these, added to those from the present year's fellings, cannot be brought out in time for sale without making another way of exit. The work in the Kaneri consisted in blasting a fairway between and past great boulders and masses of rocks. It was started rather late for various reasons and the early rains put an abrupt end to it before much could be done. A whole-time Forest Engineer is badly wanted in Kanara for such work and the laying out and maintenance of the forest roads, the building of bridges on them and to look after the saw mills and their machinery. Another P. W. D. Engineer is, in the meantime, to be deputed in November next to finish the above work commenced by Mr. Haines.

The Forest Economist again visited Kánara to inspect the log-seasoning experiments inaugurated by him. The work is not yet finished and the results are, therefore, not yet known.

The Instructor, Provincial Forest Class, Dehra Dun, went through the circle with his students again this year, being convinced of the educational value of this tour from last year's experience.

Betta assignments for the provision of green leaf-manure in the spice gardens of Sirsi Táluka were finished and it is hoped the rules will be working shortly. The work of taking agreements from the individual gardeners has been carried out with very little difficulty or friction. The spice gardens of Siddápur are being treated in the same way and assignments are also finished there; leases are being taken.

· Government have sanctioned the privilege of soppu in the below-ghat Tálukas of Ankola, Kumta and Honáwar and in the Bhátkal Petha (Government Notification No. 5797 of 9th June 1916) the removal of green leaf-manure of unreserved trees in the areas of forest assigned for that purpose for the use of gardens, rice-lands and manure-pits. This privilege is exercisable only in the months of August and September in each year.

Hakkal assignments in Supa Petha of the W. D. Kánara continued to be intermittently cultivated by the Kumri Marathas and others. The supervision (which was nil up to now) and collection of revenue has been transferred to the Forest Department at the time of the creation of the fifth Kánara Division and Supa forest mahál.

Five new forest maháls were sanctioned at the end of the year as already mentioned in Chapter IV.

Rinderpest was again bad this time in Virnoli and Kulgi ranges where it chiefly attacked the bison. Great numbers of these died in the monsoon months with the result that these animals, which were formerly numerous in those areas, are now reported to be almost extinct. It will be necessary to close Kulgi, Virnoli and the Dandeli range where last year's visitation took place with similar results, to shooting of bison for some years to come. Fortunately the disease died out before the contractors started carting work in Virnoli and Kulgi this year and their work was not interrupted.

A new timber depôt was opened in Kánara, C. D., at Tadri on the coast for logs from Sirsi Range and the Soppinhosalli High Forest of S. D. Kánara.

The tram-rails and trolleys in Kodibag depôt of the W. D. Kánara were taken up as local prejudices were too strong against using them; it is also a fact that the rails were not heavy enough for continued work with large timber.

The monorail in Belgaum was again not used as the new contractor refused to work it. It now traverses the current coupe and a broken bridge on the road has been repaired, so the Divisional Forest Officer hopes to utilize it in the year 1916-17.

In Belgaum the Divisional Forest Officer reports that Berad labour was interfered with by the police who called off men to hunt for "fararis" or absconders and for "roll-call" purposes. Labour is scarce in the west of the Belgaum

Division and much time has to be wasted by the forest staff from the Divisiona Forest Officer downwards in procuring sufficient to work the jungles and bring is the revenue. Some working arrangement has now been arrived at with the Polici Department, however, and matters may improve. Mr. Hodgson acknowledges the valuable assistance rendered by the Revenue Department in helping to procure carts and men and particularly mentions the Mámlatdár of Khánápur ir this connection.

No further charcoal experiments were carried out by Mr. Hodgson but he states that charcoal-manufacture is now well established in Gokák and Belgaum Ranges and further endeavours are being made to start kilns in the three Khánápur ranges.

Mr. Puransing, the Forest Chemist, Dehra Dun, visited Belgaum Division and carried out some distillation experiments at Tambulwadi with Lantana and Blumea malcolmi or "Panjrut", proving that the former condains nothing valuable in the way of oil, while the latter has sufficient to work with. A further report is awaited. Mr. Hodgson sent the following to Dehra Dun for analysis:—

Lantana fruits.

Phyllanthus emblica (Awla) fruits.

Spondias mangifera (Ambada or hog plum).

Trema Orientalis (Gol).

Careya arborea (Kumbha or Kowl).

24 coloured earths.

Sandalwood has also attracted more attention during the year and further observations go to show that the tree is rapidly spreading in all the areas affected by Lantana. Mr. Hodgson states that, while fires severely damage scattered bushes in grass lands, these never develop beyond the mild ground-fire stage which does practically no damage to any growth where Lantana is dense.

As a matter of fact the Conservator has himself noticed that the Lantana thickets often entirely extinguish an ordinary fire if it is not too violent. Sandal plants are parasitic on the roots of many species of trees and bushes and Lantana, while protecting them against damage from burning, gives them all the nourishment they want. Sandalwood is too valuable to waste and every effort should be made to protect and propagate it. We know hardly anything about it as yet and certainly have very little idea how much there is in the circle outside the areas under the management of the Department. Enumeration of the trees was begun in the Dhárwár District (where it is perhaps most plentiful) in the year 1913-14, but was not proceeded with. It has been recommenced this year and the artificial propagation of the species is also engaging the attention of the Divisional Forest Officer and his staff. It is certain that everywhere a great deal of looting goes on without our knowledge, but it is only lately that we have been able to arrive at even a hazy estimate of its extent. Without further legislation for the better protection of the trees than that now existing, little can be done and the question is still under consideration.

The transfer of the forests of Ratnágiri to the Revenue Department, already recommended to Government, is presumably still under consideration and the Collector states that a further report on the subject has been called for by the Commissioner, S. D.

The Collector of Kánara makes no remarks in forwarding the five reports appertaining to his district. The Collector of Dhárwár says that "the employment of a special Forester for enumerating sandalwood trees growing outside the forest areas is recommended in order to protect the rights of Government." Steps are being taken. The Collector of Bijápur, while commending Mr. Koppikar for his sympathetic treatment of the people, endorses the latter's statement that "the relations of the Forest Department with the Revenue Department and the people have been satisfactory and goes on to say:—)

"The decrease in the number of offences dealt with and of those sent to Court is satisfactory. It should be borne in mind that not every offence coming to notice is worth being investigated. Even the Police stop investigation under section 157 (b), Criminal Procedure Code, of a large number of offences which are really comparatively more important than a good many of the forest offences which are still fully investigated in this division. If fewer offences were taken up for investigation with discrimination, it would leave the guards and Rangers more time for patrolling and other necessary conservancy work in their charges.

"I would have no objection to hand over to the Forest Department certain pasture forests for management provided, as far as possible, an equivalent area of reserved forest in each case is turned into pasture, or disforested. This can be done in several places, particularly those close to village-sites where the reserved forest is but one mass of prickly pear and is of little use as forest. If thrown open to cultivation, these tracts could be quickly cleared of prickly pear to the mutual advantage of the Forest Department and the rayats."

The Conservator cannot agree with the Collector's remarks re offences. He toured through the Bijápur forests, visiting every one, a few years ago and again saw some of them last year and was struck with the amount of petty looting that goes on. Thefts of forest produce are necessarily of a petty nature as the whole of the Lamani population are engaged in them. These people live either in, or on the very edges of, the forests which are scattered about in isolated blocks in Hungund, Bágalkot and Bádámi talukas; and their petty depredations are extremely difficult to prevent. Any laxness in punishing even the smallest must inevitably lead to more. It is important to preserve what forest there is—it is all on dry, excessively stony hills which are absolutely unfit for cultivation with the exception of, perhaps, a few acres along the bases here and there—for climatic reasons if for no other; the revenue, also, though at present small, is capable of large expansion with careful management.

As regards Mr. Kabraji's remarks about exchanging lands, something is being done year by year to rectify matters and make conditions of protection easier by changing the boundaries where they interfere with villagers and cultivation. The prevalence of prickly pear, however, in most cases, is directly due to the habit of villagers of fencing their fields with it—planting live hedges of it to keep animals off the crops; not only pig but also village cattle. The largest areas of prickly pear are invariably found round villages. Why? And, although several such areas have been disforested upon representations made, the Conservator does not remember to have noticed a single one that had been cleared and made use of subsequently for cultivation.

Sind Circle.

No fuel was supplied to the Military Department by coupe contractors through the agency of the Forest Department.

Chil and deodar logs and sleepers were as usual imported into Sukkur for local use from the Punjab.

Large quantities of timber and fuel were imported into Sukkur, Rohri, Shi-karpur and Larkana from the Khairpur State and to Larkana from the land of the Jagir Nawab Gaibi Khan.

There was no civil suit during the year.

Arrangements were made to give instructions in arboriculture to subordinates of the Public Works Department, District Local Boards and Municipalities at Rahuja in Sukkur and Miani in Hyderabad.

At Rahuja 3 men passed out of 4 candidates, one having left the class almost immediately; while at Miani all six candidates passed the final examination. It has been found impossible with the present inadequate Range staff to appoint a specially qualified Ranger as mentioned last year.

Ranger Bulchand Parumal was appointed to act as Probationary Extra Assistant Conservator in the month of January 1916, but it was found imperative to keep him in the Mulchand Range as no officer fit to hold charge was available.

The Divisional Forest Officer, Jerruck, remarks as follows:-

"The value of the forests to the cattle owners of the Sind Kohistan tract and of Cutch has been well demonstrated during a year of drought. Many thousands of cattle were admitted free in the forests from January to May where an unusually abundant pod crop carried many of them through the most critical period of the season. But for the crops the horned cattle would have perished without exception as there was no fresh grass whatever in the forests after the end of the cold weather. Even as it was many did die, being in a condition of semi-starvation before they ever reached the forests."

Hunting and shooting --

Rules to regulate hunting, shooting, poisoning of water and setting traps or snares in the reserved and protected forests of the Province of Sind were prescribed and applied under Government Notification, Revenue Department, No. 5291 of the 12th May 1915. These were introduced for the preservation of the hog deer and certain game birds it was desirable to protect during the breeding season and also to help to guard forests against incendiarism.

The following remarks have been made by the Collector and by the Deputy Commissioner, Upper Sind Frontier, when forwarding the Administration reports of the Divisional Forest Officers:—

Sukkur Division:—By Mr. J. W. Smyth, Deputy Commissioner, Upper Sind Frontier:—

Alteration in areas.—Of the four undecided claims to kachas only one belongs to this district. The land involved is under dispute with the Bahawalpur State.

General Protection.—The Magistrates still experience difficulty in deciding forest cases owing to the occasional failure of the subordinate forest officers to appear in Court on the prescribed dates.

Protection from Cattle.—To check this evil it has been proposed to levy enhanced fines for unauthorized grazing. No objections to the draft notification prescribing these fees have been received, and the orders of Government may be expected shortly.

Grazing.—It is possible that the increase in the fees derived from grazing may also be due to the reduction of the fees. It is difficult to believe that the striking increase in the figures of the Kashmore Range is altogether due to the vigilance of the Range Forest Officer.

Larkana Division.—By Mr. A. Mackie, Collector of Nawabshah:—

The decrease in net income is very striking.

Jerruck Division.-By Mr. A. S. A. Westropp, Collector of Karáchi:-

"The report chronicles a satisfactory administration of the division during a year of low inundation and total failure of rains which caused a fodder scarcity in the district but more acutely in the hilly region. The Collector is glad to acknowledge that the situation on being brought to the notice of the Forest Department received sympathetic treatment at their hands. This is evident from paragraph 74 of this report showing that free grazing passes were issued for 5,198 cattle in the 3 ranges of the Karáchi District. This concession combined with Ráo Bahádur Seth Vishindas' generosity in issuing free passes to the Kohistan people for the collection of babul pods for their cattle, as well as for sale from the 15 riverain forests taken up on contract by him, afforded substantial relief to the distressed graziers who however in spite of such assistance, it is much to be regretted, lost much of their stock.

The increase of forest offences commented upon in paragraph 24 et seq of this report is a natural consequence of the adverse conditions which prevailed during the year and the Forest Department is to be complimented on the exercise of vigilant supervision which checked serious damage and on the successful result of the prosecutions lodged in criminal courts as well as of the large number of minor offences compounded departmentally in a liberal spirit.

The price of firewood has greatly increased in Karachi owing, it is said, to a combination among sellers. It would have been in teresting to see this point briefly noticed in this report.

The reduction of the ghat fees at Tatta referred to in paragraph 65 of the report had the approval of the Collector. It was evidently a well conceived step both in the interests of the poor wood-cutters and the townspeople of Tatta."

REMARKS OF THE COMMISSIONER, NORTHERN DIVISION, ON THE FOREST ADMINISTRATION REPORT OF THE NORTHERN CIRCLE FOR THE YEAR 1915-16.

No., F.O.R.-47.

Ahmedabad, Shahi Bagh, W. D., No. 1, 23rd October 1916.

REVENUE DEPARTMENT.

Submitted to Government.

- 2. The changes in the forest area were unimportant. The North Dángs working plan was sanctioned last year, while the year under report saw the completion of that for the South Dángs, leaving only the Central Dangs to be dealt with. In Surat, the Mándvi forest still remains to be dealt with, while in the Panch Máháls the Eastern Maháls working plan is under preparation, and that for the Western Maháls is still to be taken up. In Thàna good progress is reported in connection with the revision of the working plans of the three Thána divisions.
- 3. Progress in the construction of new roads was not as good as in the year preceding, only 15½ miles of new roads having been constructed at a cost of Rs. 10,500 as against 37 miles at an aggregate cost of Rs. 18,294 in the past year. The expenditure on new buildings also declined from Rs. 20,138 to Rs. 4,193.
- 4. The Panch Maháls and North Thána are principally responsible for the increase in the number of forest offences. In the former it is ascribed to the scarcity in North Gujarat and Káthiáwár, which brought down larger numbers of cattle in search of pasture, and in the latter to the better, though not yet complete, reporting of illicit fellings. Cases of injury to forest by fire were fewer by 152 than in the year preceding. Communal punishments are reported to have produced good results.
- 5. Fire conservancy appears on the whole satisfactory. There was an appreciable decrease in the area burnt as compared with the preceding year.
 - 6. The number of cattle impounded rose from 52,034 to 60,973. The Panch Maháls owing to the scarcity referred to in paragraph 4 above showed a large increase of 12,496 over last year's figures.
 - 7. Having regard to the effects of the war on the working of the forests, the financial results of the year may be regarded as satisfactory.
 - 8. Mr. Fisher's proposals with regard to increasing the number of ranges in the circle were submitted to Government under this office No. F.O.R.—74, dated 28th September 1916.
 - 9. The undersigned has no personal knowledge of the working of the circle, but gathers from the report itself that the circle has been administered with success and efficiency by Mr. Fisher and his subordinate officers.

A. H. A. SIMCOX, Acting Commissioner, N. D.

REMARKS OF THE COMMISSIONER, CENTRAL DIVISION, ON THE FOREST ADMINISTRATION REPORTS OF THE NORTHERN AND CENTRAL CIRCLES FOR THE YEAR 1915-16 SO FAR AS THE AREAS IN THE CENTRAL DIVISION ARE CONCERNED.

No. Gen!.—1401 of 1916.

Camp Nasik, 15th November 1916.

The following review of the Administration Reports of the Northern and Central Circles for the year 1915-16, so far as the areas in the Central Division

are concerned, is submitted to Government in the Revenue Department. The Conservators' reports have already been submitted by those officers direct to Government.

- 2. The area of the Central Circle was further reduced by 49 square miles during the year under report, the chief reason for this decrease being the disforestment of certain areas of pasture forest already in charge of the Revenue Department.
- 3. Two hundred and twenty-one miles of the outer boundaries of forests were demarcated during the year at a cost of Rs. 2,613 against 223 miles at a cost of Rs. 2;241 in the preceding year. Satisfactory progress is being made in South Násik in the erection of intermediate cairns.
- 4. Working plans in the Central Circle for only 44 square miles received the sanction of Government against 157 square miles during the preceding year. Mr. Napier explains the reason for the delay in the completion of the revised plan of the East Khándesh Satpuda forests. Mr. Fisher reports that an attempt is to be made to take in hand during the coming season plans for the forests of the Násik Divisions if the reduced staff of Imperial Officers can manage it.
- 5. As regards roads, expenditure was considerably reduced in the Central Circle owing to the financial stringency and only very important works were undertaken, expenditure showing a reduction of Rs. 9,158 as compared with the previous year. The Commissioner thinks that the Conservator of Forests, Central Circle, is probably right in thinking that a road connecting Dhadgaon with Shahada is preferable to one connecting it with Taloda, via Kothar, and the Public Work's Department may be directed to frame a project and estimate for the former. It will be useful for the Forest Department and it will also serve to open up the Akrani to the outer world. Mr. Napier's remarks about the Koyna valley road deserve attention and his final conclusions will be awaited with interest.
- 6. The desirability of developing the two Peint Ranges in the South Nasik Division of the Northern Circle is apparent, and when a full-time officer with the requisite qualifications is available, the matter will no doubt receive consideration. Expenditure on buildings also decreased in the Central Circle by Rs. 16,399.
- 7. A statement showing forest offences committed in the districts of the Central Division has been prepared and appended to this review to facilitate comparison of this year's figures with those of last year. Offences reported have declined from 7,817 to 6,998, a reduction of 10.4 per cent. There have been fewer offences reported in every district: it is not so certain that there have been fewer committed. It is unpleasant to note that in both circles the Conservators notice the negligence of their subordinates, e.g., Mr. Napier as regards fire-tracing and Mr. Fisher as regards reports upon illicit fellings by his protective staff and as regards incendiarism done with the knowledge and connivance of fire guards. The number of offences of injury by fire shows an increase of 15 (438 against 423 in the previous year) but the area burnt this year (168,940 acres) was smaller than that (188,551 acres) burnt in 1914-15.

		Current year.	Past year
East Khándesh West Khándesh North Khándesh Poona	••	11,560 10,045 8,082 11,562 5,571 16,537 11,484	20,897 10,176

8. There was a small reduction in the number of cattle of all kinds and sheep and goats impounded during the year—74,841 against 80,284 during the past year. Mr. Napier remarks that in Poona the people are in the habit of evading payment of grazing fees till long past the fixed date and suggests that nothing short of double fees will result in any improvement.

9. The receipts from hirds in the Central Circle show an increase of Rs. 14,989 over the previous year's figures under this head. In respect of the crop in the Poona District the Conservator reports that "it had perforce to be collected departmentally, no other system being possible in a locality where the hirds trees in occupied lands so largely outnumber those in forests, where the villagers themselves carry on such a large trade in the fruits, and where no contractor will burchase the forest hirds on the trees for fear of its finding its way to the villagers' lepôts rather than to his. The share system of collection is adopted under which

each forest village by agreement contributes a fixed quantity free of charge, all balance over and above such quantity being at his disposal, but the system throws much work on the Forest Department in keeping the villagers to their agreements, and in the subsequent transport of the hirda to central depôts where it can be sold to Bombay merchants. With great difficulty, and only after much personal exertion by the Divisional Forest Officer, was a satisfactory sale effected of the 1915-16 crop and of that which had remained unsold from the previous year. The net profit on the operation was Rs. 4,318."

- 10. Fires caused considerable loss in East Khandesh, and the Conservator notes that in at least 17 cases this was due to the bad work of forest subordinates and carelessness in firetracing. The protection of forests from fire is probably the most important and the most difficult of all the operations of the Department.
- 11. Excluding famine fodder transactions, the year's working in the Central Circle as now constituted resulted in a decrease of Rs. 5,313 in receipts as compared with those of the preceding year and in a corresponding decrease of expenditure to the extent of Rs. 29,902. There was a net surplus of Rs. 2,66,862 in this circle. In the two Násik Divisions of the Northern Circle the receipts rose from Rs. 2,02,316 in 1914-15 to Rs. 2,28,261 in the year under report, while expenditure fell from Rs. 1,22,029 to Rs. 1,03,683.
- 12. The question of providing a dispensary at Dhadgaon is still under consideration, being delayed only by want of funds. It was impossible to provide for it either this year or last year.
- 13. Mr. Napier's remarks are most interesting. Reference has already been made to the Dhadgaon dispensary and road, and the Koyna valley road. Special attention is also invited to the Conservator's remarks about East Khándesh fires, trespass and the evasion of grazing fees in Poona, and the evils resulting from a lack of continuity in administration. It is pleasant to notice the spirit of co-operation which now exists between the Forest and Revenue Departments. Excellent work has been done throughout the year by the forest officers of this Division.

C. N. SEDDON, Commissioner, C. D.

19	•	A Cases taken	into Court.		Cas	B es compounde	d and warne	d.		. Cases und	letected.			Tot	al.		
Divisions.	Injury	Unauthorised fellings or appropriation of wood or other minor forest produce.	Grazing without permission.	Other offences.		Unauthorised fellings or appropriation of wood or other minor forest produce.	without	Other offences.	Injury to forest by fire.	Unauthorised fellings or appropriation of wood or other minor forest produce.		Other offences.	Injury to forest by fire.	Unauthorised fellings or appropriation of wood or other minor forest produce.	Grazing without	Other_offences.	Grand total. 1915-16.
East Khándesh	3	43	16	13	2	215	267	95	-24	109	2	4	29	367	285	112	793
West "	. 8	4	_ 5	3	2	171	357	17	45	75	5	1	55	250	367	21	· 693
North ,	1	. 8	5	5	14	194	145	88	27	. 96	3	-4	42	298	153	97	590
Poona	3	24	35	7	27	694	_788	78	111	132	5	î	141	850	. 828	86	1,905
Sátára	9	6	13	3	14	354	445	67	43	66	} ••	1	66	426	458	71	1,021
North Násik	2	10	5	1	4	335	, 4 99	65	31	36		1	→ 37	381	50 4	67	,989
South ,,	1	17	17	5	7	404	341 	57	60	98	1	••	68	519	358	62	1,007
Total	27	112	96	37	70	2,367	2,842	467	341	612	15	12	438	3,091•	2,953	516	6,998
Figures for 1914-15	38	112	116	32	84	3,007	2,865	471	296	763	10	18	423	3,882	2,991	521	7,817

REMARKS OF THE ACTING COMMISSIONER, SOUTHERN DIVISION, ON THE FOREST ADMINISTRATION OF THE SOUTHERN CIRCLE, FOR THE YEAR 1915-16.

No. 4856.

REVENUE DEPARTMENT. Belgaum, 31st October 1916.

The sub-joined table shows that the revenue has increased by 1.3 lákhs and that the figures of revenue and expenditure do not compare unfavourably with those of 1913-14 which showed a remarkable excess over the average of five years previous to that year:—

	4	Average of 5 years upto 1912-13.	1913-14.	1914-15.	1915-16.
·		(Figure	s in lákhs o	f rupees.)	-
Revenue Expenditure	• •	15·5 9·2	20·2 10·9	18·7 10·7	20· 11·4 🖦
Net surplus		6.3	9.3	8.	8.6

The value of sales has increased by 5 lákhs of rupees.

Satisfactory exploitation is hampered by labour difficulties. The question of labour supply in the Khánápur forests of Belgaum by the establishment of a settlement of Berads is under consideration of Government.

The transfer of the revenue management of the in-forest villages to the Forest Department is likely to solve the labour supply difficulty to a certain extent in those regions.

Forest Settlement.—I have issued orders that the Sub-Divisional Officers in Belgaum and Kánara should expedite the forest settlement work in addition to their other duties. The Collector of Kánara has been asked whether Kánara cannot do without a special Forest Settlement Officer and his report is still awaited. As to Belgaum, I do not think a special officer is now necessary. 17,705 acres out of 56,898 acres proposed for afforestation in this district lie within the area transferred to the Forest Department for revenue management for which the Divisional Forest Officer who is ex-officio Assistant Collector has been appointed Forest Settlement Officer in Government Notification No. 9982 of 17th October 1916. A portion of the remaining area consists of occup ed land which it is not considered necessary to acquire at Government expense during this period of financial stringency. I am trying to see whether the work that remains can be performed by the Sub-Divisional Officers without extra expense to Government.

Communications.—Rupees twelve thousand eight hundred and forty-six were spent on new works against Rs. 15,378. Measures for providing facilities of communication such as a lumber railway, improved waterways on the Kalinadi and Kaneri, etc., are under consideration.

Crime.—Crime does not show a tendency to increase except in the case of injury to forests by fire, the number of cases of which increased by 280 and the area burnt by 173,200 acres. This excessive conflagration is attributed to an exceptional dry weather and the existence of dead bamboos which are a source of great danger. When they burn they cast flaming fragments for long distances. In view of the potential value of the forests burnt the loss to Government is very considerable and more effective measures should be taken in the matter. A remedy has been proposed by amending section 78 of the Forest Act so as to impose on all who enjoy privileges certain liabilities as regards fires.

Administration.—Punishments have again increased from 419 to 465.

General.—The question of management of Ratnágiri forests by the Revenue Department is still under consideration. The question of control over sandal-wood trees by legislation is under discussion with the Forest Department. Sandal-wood is of great value and there is no doubt that with proper control a large revenue could be derived. As it is, it is difficult to prevent theft of sandalwood. The question is a difficult one and has already been discussed by me at two conferences. It was decided in Government Resolution No. 1442 of 10th February 1912 to follow the Mysore rules, but these rules are substantive law and we have no law of sandalwood. A short Bill has been drafted by the Conservator, but before I can put it before Government, it is necessary to show the value of the property to be protected and the increased income likely to be secured. These details the Forest Department have some difficulty in collecting.

Enquiry is proceeding with a view to developing the resources of the forest estate more fully. Recently I have put before the Forest Department the question of dry wood distillation and have arranged to have certain woods tested with a view to the exploitation of charcoal and dry distillation of the most favourable woods.

Communications are also engaging attention. I am having prepared a map of all roads existing and proposed in each forest division showing what amount is required to be spent on each and what the extra return will be. Government will then be in a position to know where money can be expended with the best prospects of a return.

By the amalgamation of the Bijápur Division with Dhárwár, a fifth Forest Officer has been provided for the Kánara forests.

The relations of the Forest Department with other Departments have been most satisfactory and its affairs have been adminit ered most efficiently with due regard to the interests of the public by all forests officers.

L. J. MOUNTFORD,

Acting Commissioner, Southern Division.

REMARKS OF THE COMMISSIONER, SOUTHERN DIVISION, ON THE FOREST ADMINISTRATION REPORT OF THE CENTRAL CIRCLE (ONLY SO FAR AS THE KOLABA DIVISION IS CONCERNED) FOR THE YEAR 1915-16.

No. 4481.

REVENUE DEPARTMENT.

Belgaum, 11th October 1916.

This Division is only concerned with the Kolába District in the present report.

- 2. In Kolába, the valuable forest is 269,327 acres out of a total in the Central Circle of 1,833,141; the net surplus is Rs. 87,180 out of Rs. 2,66,862, i.e., the area which is 7th of the whole produced 3rd of the surplus.
 - 3. Out of 155,471 acres burnt, only 833 were burnt in Kolába.
 - 4. The expenditure in Kolába is 10 per cent. less than the five years' average.
- 5. From the above figures the administration of Kolába forests appears satisfactory and with the improvement of forest roads the value of the forest estate in that district should improve even more.

L. J. MOUNTFORD,

Acting Commissioner, Southern Division.

REMARKS OF THE COMMISSIONER IN SIND ON THE FOREST ADMINISTRATION REPORT OF THE SIND CIRCLE FOR THE YEAR 1915-16.

No. 2959 of 1916.

REVENUE DEPARTMENT.

Office of the Commissioner in Sind. Government House, Karachi, 14th October 1916.

Submitted to Government.

2. The revenue of the year amounted to Rs. 3.8 lákhs against an average of Rs. 4.1 lákhs for the last 5 years and the expenditure to Rs. 2.15 lákhs against an average of Rs. 2.09 lákhs, the surplus revenue being thus reduced from Rs. 2.01 lákhs to Rs. 1.64 lákhs.

This decrease of revenue is due to the fact that payments of coupe revenue are spread over two years, and the arrears on account of 1914-15, which were recovered in the year under report, were Rs. 90,000 less than the similar sums recovered in 1914-15.

On the other hand, grazing fee collections rose from Rs. 41,000 to Rs. 46,000; the revenue from minor forest produce from Rs. 40,000 to Rs. 46,000 and the price of coupes from Rs. 1.76 lákhs to Rs. 2.53 lákhs.

3. The statement of penalties included in Chapter IV reveals a very unsatisfactory state of affairs. In the Jerruck Division 43 per cent. of the establishment resigned or were dismissed; in the other divisions dismissals and resignations varied from 13 to 17 per cent. Further, in the Sukkur and Lárkána Divisions punishments of degradation and fine amounted to 46 and 41 per cent.

The Commissioner is enquiring into the necessity of these disciplinary measures. It is not stated what proportion of the men punished belonged to the lower grade of Forest Guards or to the superior ranks—a fact which should always be noted in the report of the Deputy Conservator. Seeing that the cost of the establishment has within the last 10 years been raised from Rs. 1·12 to Rs. 1·83 lákhs, it is reasonable to expect a higher standard of efficiency, but these figures would indicate that this result has not yet been attained.

4. The year was undoubtedly a difficult one from the administrative stand-point. The area flooded by the river was only 271,000 acres against 568,000. There was no rain, and the forests were invaded by large quantities of cattle in very poor condition with graziers from the hills on the west or the deserts on the east wholly unused to discipline. The result was necessarily a very large increase of forest offences.

The area burnt rose from 1,046 acres to 6,451 acres. This, though a remarkable increase, does not represent any serious loss, and was the natural result of the very dry condition of the grass and of the anxiety of graziers to save their cattle by obtaining some green fodder at any cost.

Unauthorised fellings similarly increased from 1,269 to 1,642 and illicit grazings from 1,865 to 2,752. The increase in unauthorised fellings occurred chiefly in the Sukkur Division and is attributed to the stricter supervision of the Divisional Forest Officer. Cases of illicit grazing were most frequent in the Hyderabad and Sukkur Divisions, the absence of rain in the hills having caused a great influx of Brahui and Baluchi graziers with their cattle into the riverain forests of those divisions.

The results of prosecutions were satisfactory, 87.66 per cent. ending in conviction. The number of cattle impounded rose from 17,300 to 18,158.

- 5. Experiments in the propagation of lac failed once more. It is, however, desirable to persevere in the hope of eventual success.
- 6. The revision of the working plans made good progress, 235.9 square miles being taken in hand and completed.
- 7. It is satisfactory to note that the relations of the Forest Department with the people and the Revenue Department have been most harmonious, and in particular, that in a season of acute distress for the cattle of the province, the forest Administration threw open their grazing liberally and accorded substantial relief.

H. S. LAWRENCE, Commissioner in Sind.

FORM No. 7.—Area of Reserved Forest, 1915-1916.

Division.	Range.	Civil District	Name of Forest,		lst July	Added during the year.	Excluded or transferred to other heads.	Area on 19	80th June 116.	No, and date of Notification of addition or transfer,	Remarks.
	:	Territory.	Forest	Acress	Equivalent in square miles.	Aores.	Acres.	Acres,	Equivalent in square miles.	OF MADRIES.	
1	2	8	. 4	5	6	7	8	9	10	11	12
NORTHERN CIRCLE.			}	Acres.	8q.m. a.	Aores.	Acres.	Acres.	6q. m. a.	,	
CIRCLE. Panch Mahals	956.508	Panch Ma- háls.		272.222	831 959		***	212,199	881 859		
Samt	920000	Surat	Do	51,791	80 591		***	51,791	80 591	134114	
Dángs (leased)	- SEONED	Dángs	Do	211,795	330 595		••• i	211,795	880 595	980 148	
Nor th Thána		Thána	Do	214,149	334 889	•••	198	214,149	834 389	, iiii	. 3
entral Thána	48400	Do	Do	236,316	369 156	(a) *20	(ð) 1	236,335	869 17 5	(b) 10328 (b) 8312 11-10-1916 4-8-1915.	(a) Due to corre tion of boundar
outh Thána	**************************************	Do	Do	212,691	332 211	***		212,691	332 211	posted	
orth Násik	005174	Násik.	Do	484,979	760 579	(a) 24	* (b) 108,641	978,362	691 122	(a) 18103 (b) 7972 7-12-1916; 26-7-1916, (b) 3446 25-8-1916.	Transfer of Kn wan Range fro North Nasik South Nas
outh Násik	******	Nósik	Do	295,671	461 631	* 'a) 108,280	(5) 995	402,958	623 396	(a) 8477 (a) 11608 9-8-1915 1-11-1915, (a) 11677 (b) 1609 3-11-1915, (b) 1653 (b) 7576 12-2-1916, 14-7-915.	Division — V 1 a G. R. No. 35 of 24th Marc 1915,
hmedabad		Ahmedabad	. Do	12,032	18 512		,	12,032	18 512	rhanny	•
			Total, Northern Circle.	1,933,623	3,021 183	108,324	109,637	1,932,310	3,019 150	. ,	
CENTRAL CIRCLE.	494144	East Khán- desh.	Reserved	511,978	799 618		* 109	5 11,870	799 5IO	*7555 89 13-7-1915, 5-1-1916.	
Yest Khándesh	e versas	West Khán- dosh.	Do	494,597	772 517	† 441	‡ 14	494,627	772 547	† 9818 3887 14-9-1915, 8-4-1916, ‡ 8478 9-8-1915.	
iorth Khándesh	400110	Do	Do	555,766	868 248	•••	***	555,766	868 246	412.000	
code		Poons and Ahmed- nagar.	Do	648,040	1,009 290	§ 763	¶ 282	646,521	1,010 121	\$ 5892 5895 26-5-1915, 26-5-1915, 8817 11110 17-8-1915, 19-19-1915	
·										4981 5790 4-5-1915, 24-5-1915, 871 2593 12-1-1916, 7-3-1916, 9031 11818	
	*\		,						·	13123 8-12-1916. ¶ 3729 11645 6-4-1916 26-10-1916, 2697 6080	
		•				•	•	•		23-2-1916, 11547 2-6-1915, 12735 30-10-1915, 3157 30-11-1916, 12736 22-3-1916, 30-11-1916.	
									•	11862(a) 10-11-1918.	

FORM No. 7.—Area of Reserved Forest, 1914-1915—continued.

Division,	Range.	Civil District or Territory.	Name of Forest.	Area or	ı lst July 16.	Added during the year.	Excluded or trans- ferred to other heads.		80th June 916.	No. and date of Notification of addition or transfer.	Remarks.
		terrisory.		Acres.	Equivalent in square miles.	Acres,	Acres.	Acres.	Equiva- lent in square miles.		•
1	2	3	4	,5	6	. 7	8		10	п	12
CENTRAL CIRCLE-contd.				Acres.	Sq.m. a.	Acres,	Δores.	Acres.	Sq.m. a.		•
Sátára 🚥	800/44	Sátára	Reserved .	454,426	710 36	*224	f 210	454,410	710 49	* 5721 9811 24-5-1915, 14-9-1915, 9812 9815 14-9-1915, 14-9-1915, 9816 10335	
							 - - - 			14-9-1915, 25-9 1915, 5723 5728 24-5-1915, 11116 10594 29-10-1915, 7-10-1915, 17340 4879	
			•				·			7-7-1915, 9-5-1916, 2592 6795 7-3-1916, 23-6-1915	:
a66 a.r.r	******	Po	(Leased) .	. 232	0 232	***		232	0 232	***	!
Kolába	T* #88	Kolaba	Reserved .	287,864	449 504	‡1 0	§1	257,003	419 543	18313 9272 4-8-1915, 30-8-1916, §12737 13792 30-11-1915, 27-12-1915.	1
Ahmedmyzar and Sholápur,	******	Ahmed n a- gar and Sholipur.		498,050	778 186	¶ 2	ij2 4 ,9 9 0	47 3,068	730 108	3869 5-4-1916. ¶ 8279 8968	
		Shortpu.								3-8-1918, 21-8-1915, 10425 11516 20-1915, 9891 9-14 11-9-1915, 14-9-1915.	
										13390 11118 14-12-1916, 19-1:-1916, 88 955 5-1-1916, 26-1-1916, 5079 6273 15-5-1916, 9-6-1916, 6794 10-11-1916, 12331 13496	(a) Mistakee measuremen now regified
* · · · .			Total, Centre Circle.	al 8,443,959	5,388 639	1,073	25,605	3,124,427	5,350 427	19-11-1915, 17-12-1915,	
SOUTHERN CIRCLE.											
Kánara, N. D	As constituted no to 31st Ja- nuary 1916. As readjusted			472,748	788 420	(a) 231 (b) 55,674	(e) 21 (e) 257,557	271,073	423 353	(a) 2588 7 3 1916.	•
	from 1st Fe- bruary 1916 and 1st May 1916.						-	·			(b) From Dhan war to N. D Kenara. (d) From N. D
Kánara, E. D	As constituted up to Sist Ja- nuary 1916. As readjusted from lst Fe-	Do	Do	'	647 128	j	(h) f6 (i) 19,929 (j) 29,043	1409,163	639 108	(e) 7742 5939 1917-1915, 12-6-1916, (f) Recrification of e-ror, (h 7573 9270	Kanara to W D. Kanara. (g) From Dhar war to E. D Kanara.
Cen tral	bruary 1916. New Division	Do,	Do.	, M 844		(i) 19 929	(m) 27	467,861	731 21	14-7-1915, 3)-8-19.5. (m) 1737 14-2-1916,	(i) From E. I Kanara to C D. Kanara
	from 1st Fe bruary 1916					$\binom{k}{187,821}$ $\binom{l}{230,133}$				• 2591 2874 7•3-1916, 14-3-1916,	(j. From E. I Kanara to W t. Kanara.
Kánara, S. D	As constituted up to 31st Ja- nuary 1916. As readjusted from 1st Fe- bruary 1916.	Do	Do		867 584	(n) 8 (o) 43,424	(p) 31 (k) 187 821	} 411,011	642 164	(n) 11317 26-10-1916 (p) 79-9 9456 26-7-1915, 3-9-1915 10-17 11544	(k) From S. I Kanara to C D. Kanara. (l) From W. E Kanara to C
		,			-	•				10017 11048 1104	D. Kanara. (o) From W. I. Kanara to S. D. Kanara.

FORM No. 7,—Area of Reserved Forest, 1915-1916—continued.

,			•			1	1_	1	 	l i	,
. •					let July	Added during	Excluded or trans- ferred to	Area on	30th June	•	,
Division.	Range.	Civil District	Name- of Forest,	· • . •		the year.	other heads.	19	110.	No. and date of Notification of addition or transfer.	Bemarks.
·•		Territory.		Acres	Equivalênt in square miles.	Aores.	Acres.	Acres.	Equiva- lent in square		•
1	23	. 8	4	δ	6	7	8	9	miles.	11	,13
SOUTHERN IRCLE—contd.	<u> </u>]				<u></u> _	<u></u> _			<u></u> ، نين ،
ánara, W. D. 🔐	As constituted up to 81st Ja-	Kánara	Reserved	Acres: 552,291	862 611	Acres. (g) 160	Acres.	Acres.	Sq.m. a.	(-) \ 1 0000	
	nuary 1916. As readjusted from 1st February 1916	Do	Do	***		(d) 257,557 (j) 29,043	(r) 51 (s) 7,843 (l)260,138 (o) 43,424	527,595	824 235	(q) 12798 1-12-1015, (r) 6274 0-6-1015, 28-0-1915,	(b) From Dh war to N. Kanara.
•	and 1st May 1916,	•	} }. •			<u> </u> 			. 	11868 19672 10-11-1915, 22-12-1915, 677 to 580 17-1-1916,	(d) From N. Kanara to D. Kanara.
elgnum	014 0** ,	Belgaum .,.	Do	434,347	678 427	(t) 972		435,319	680 119	(t) 5830 & 5834	(g) From Dh war to E. Kanara.
1			_							18-8 1915, 5-10-1915, 10016 11328 5-10-1915, 26-10-1915,	(j) From E. Kanara to D, Kanara.
				·		,		}		3155 3447 22-3-1616, 28-3-1916.	(l) From W. Kanara to D. Kanara.
Dharwar	As constituted up to 31st Jn- nuary 1916.	Dharwar	Do	240,552	875 552	(u) 147	(v) 185 (b) 55,674 (g) 43,870)		(u) 6077 to 6079- 12-6-1915, 10932 1803 13-10-1915, and 16-2-1916.	(o) From W. Kanara to D. Kanara,
								 } 318,054	496 61 4	(v) 7578 14-7-1915.	(s) Mistak rectified comparison forest reco
•				,			•	·		(w) 9683 10-9-1915.	with the c trict land cords of Revenue
Dhárwát and oijápur,	New combined Division from 1st February 1916.]	Do	177,093	276 456	(w) 13	(x) 22	j 	 - -	(x) 9682 10-0-15, 20-0-1915.	partment k up to date.
٠.	As constituted up to 31st Ja- nuary 1916.	,				ì					Transfers areas fr Division Division on
katnágiri	******	Ratnágiri	٠.	12,052	18 532	(y) 2	·	12,654	18 534	(y) 5101 10-5-1915.	count of adjustments Divisions the Kans
		**	Total, Southern Circle.	2,858,753	4,466 513	1,551	897.458* 8,238	2,852,068	4,456 228		Dharwar a Bijapur I
SIND CIRCLE.				[* .]	· •	Ì		,		tricts as [G. O., R. No. 1138, da
ukkur	199139	Sukkur	Kutta	1,717 13,093	2 437	+98 +135	-65 7	1,815 12,671	2 535 19 511	Government Resolution No. 3158 of 22nd March 1916.	27th Octo 1915.
	1		Mohro Mari	12,363	19 223	+1,424		13,607	21 867	*Government Resolvtion No. 1101 of 29th January	 Beservation Disforested
•		·	Other Forests	•	320 59	+4,557	-3,372	206,044	821 604	1916. Government Resolution No. 4158 of 15th April	+ Gained action of
		Upper Sind	Forests	i— —	80 319	+5,475	-601	56,393	88 73 . 454 170	1916. Government Resolution No. 11631 of 2nd Novem-	- Lost
•	}	Frontier.	Total	283,671	443 51	11,689	4,530	290,730	909 170	ber 1915.	
árkána	****	Sukkur ,	Forests	82,426	50 42 8	,		32,426	50 426	Government Besolution	Disforested.
]. ,	Lárkána .	Amroli	13,964	21 524		8	13,961	· 21 521 75 94	No. 3156 of 22nd March 1916.	§ Due to rect cation. + Gained
•		Nawabshah.	Other Forests	47,738 52,047	74 378 81 207	+3,021	-80 84 +1,274	48,09 4 53,794	84 34		action of t
,	· .	Timerandie.	Total	146,175	228 255	3,461	1,361	148,275	231 435		Lost action of t
			Ranasta		100 000	+1,600	—4,917	76,636	119 476		river
Hyderabad		Hyderabad, Karáchi	Forests Do	79,353 29,236	123 638 45 436	-71,000	-8	29,228	45 428		river. —Lost
•		Nawabshab.	}	50,442	78 552	+1,070	-900	50,612	79 52		action of t
			Total	159,031	248 811	2,670	5,225	156,476	244 816		
Invenels		Hyderabad.	Forests	17,959	28 69	+1,669	-1,298	18,360	28 440		-
Jerruck	******	Karachi	Kotri Allahra-	1,882	2 602	***	1,882	flfneg		Government Resolution No. 8314 of 4th August	The area no fied is 1,964-
	* * * *		khia, Other Forests	127,627	199 267	+ 4,763	4,330	128,060	200 60	1915.	acres but actual sur
			Total	147,408	230 298	6,432	7,510	741 901	228 500 1,159 141		it is 1682 acr + Gained action of i
			Total, Sind Circle,		1,150 275 14,027 330	24,252	18,626	741,901 8,951,706	13,935 306		river. Lost sction of t
	1	1	GRAND TOTAL	9 077 60Q	114 097 330	11.032.656	1.059,560	0,801,706	ו סטע סכמיטגן		BOLDINGE (

FORM No. 7-A.—Area of Protected Forest, 1915-1916.

Division	Range.	Civil District or	Name of Forest.		1st July 15.	Added during the year.	Excluded or trans- ferred to other heads.	Area on	Soth June 16.	No. and date of Notification of addition or transfer.	Remarks
		Territory.		Acres.	Equiva- lent in square miles.	Acres.	Acres.	Acres.	Equiva- lent in square miles.	•	
1	2	3	4	5	. 6	7	8	9	10	11	12
NORTHERN CIECLE.				Acres.	 Sq. m. a.	Aores.	Acres.	Acres.	Sq.m. a.		
nrat (Dángs leased)	******	Surat	Protected	208,013	925 13			208,013	325 13	******	
orth Tháng	*******	Thána	Do	93,479	146 39		(6) 7	93,472	146 92	(b) 11713 (b) 12330 4-11-1915, 10-11-1915, (b) 2396 7-3-1916,	
entral Thans	000,100	Do	Do	64,908	101 288	***	(5) 7	64,901	101 261	(5) 10140 24-9-1915.	
outh Thána. 🍌 🛶	******	Do	Do	99,085	153 165	(a) 1	(8) 14	98,072	153 152	(b) 7826A (b) 7133 22-9-1014, 2-7-1015, (b) 8546 (b) 2010 11-8-1915, 14 3-1916, (b) 1165 10-11-1915.	
outh Násik	*****	Násik	Do	55,789	87 109	(a)355	***	56,144	87 464	(a) 8544 (a) 2595 11-8-1915, 7-3-1916.	
CENTRAL			Total, Northern Circle	520,274	812 694	356	28	520,602	813 282		
CIRCLE.	809974	Sátára	Protected	659	0 1 19		1	658	1 18	11715	
Poons	*******	A h m e d	Do	7,140	11 100		1	7,139	11 99	4-11-1015. 12926 3-12-1915,	
Kolába 🚥 🚥		Kolába	. Do	47,265	73 545	•••	18	47,247	73 827	218-1915, 6-5-1916, 6281 6936	
					}-					23-6-1916, 13-6-1916, 9665 10561 10-4-1915, 5-10-1915,	
SOUTHERN CIRCLE.			Total, Central Circle.	55,064	86 24	•••	20	55,014	86 4	18-4-1916.	
Kauara, N. D	As constituted up to 31st Ja-	Kánara'	Protected	6,349	9 580		***)	,		
	nuary 1916. As readjusted from 1st February 1916.		Do			-	(a) 6,292	57	0 57		
Cánara, E.D	As constituted up to 31st Ja-	Kánara	1	3,425	5 225	•••		1			
,	nuary 1916. As readjusted from 1st February 1916.	1	Do	<u></u>			(b) 140 (f) 1	3,284	5 84		
anara Central	New Division from 1st Fe- bruary 1916,	Kánara	1			(8) 140 (c) 27,452 (d);3,393		30,985	48 265		
Cánara, S. D	up to 31st Ja- nuary 1916. As readjusted from 1st Fe-	.Do	7-		108 867		gunthas. (c) 5 (c) 27,452	42,035	65 435	(c) 504 and 500 17-1-1916.	
ánara, W.D	bruary 1916. As constituted	Do	Do	6,206	9 446)		(a) From N. D. Kánara to W. D. Kánara	
	up to 31st Ja- nuary 1916, As readjusted from 1st Fe-		Do	1	114 .	(a) 6,292 (f)1	(g) 89 6	8,210	12 530	(b) From E. D. Kánara to C. D. Kánara. (c) From S. D. Kánara to O. D. Kánara.	
Jgaum ine see	bruary 1916.	Belgaum	Do	12	0 12	***	100	12	0 12	(d) From W. D. Kanara to C. D. Kanara (f) From E. D. Kanara to	
ind circle.	•	• !	Total, Southern Circle.	85,479	138 859	*37,278	* 37,278 806	84,563	132 103	(a) From N. D. Kánara to W. D. Kánara. (b) From E. D. Kánara to C. D. Kánara. (c) From S. D. Kánara to C. D. Kánara. (d) From W. D. Kánara to C. D. Kánara. (d) From E. D. Kánara to W. D. Kánara. (g) Mistakes reotified. Transfers of areas from Division to Division to Division on account of readjustments of Divisions in the Kanara. Dhárwár and Bijápur Districts as per G. O., R. D., No, 11306, dated 27th October 1915.	, i
kkur oos soo	niyera .	Upper Sind Frontier.	Dickenson	585	0 585			585	. 0 585	of Divisions in the Konara, Dharwar and Bijapur Districts as per G.O. R.D. No. 11912	•
,			Total, Sind Circle.	585	0 585	***		585	0 585	dated 27th October 1915.	•
			Grand Total	661,402	1,033 282	37,684	A. g. 38,222 5	660,814	1,032 834	1	

FORM No. 7-B.—Area of Forest Proper, Reserved or Mixed Fuel and Fodder Reserves under the management of the Forest Department for 1915-1916.

Acres. Requirable Acres. Requirable Acres. Acres. Acres. Acres. Requirable Requirable Acres. Acres. Acres. Acres. Requirable Reserved Reserved	Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 191	lst July 5.	Added during the year.	Excluded or transferred to other heads.	Area on 30 191		No. and date of Notification of addition
NORTHERN Pan n Mahida Sura Pan n Mahida Reserved 121,199 331 850 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607 724 147 463,607	•	223	•		Acres.	in square	Acres.	Acres.	Acres.	in square	or transfer.
CRUCILE Pan h Mahilat Sura Mahilat Pan h Mahilat Reserved Mahilat Mahilat Reserved Mahilat Mahilat Reserved Mahilat Reserved Mahilat Mahilat Mahilat Mahilat Reserved Mahilat Mahilat Mahilat Reserved Mahilat Mah	1	2	3	4	5	6	7	8	9	10	11
Sarat Sara					Acres.	Sq.m. a.	Acres,	Acres.	Acres.	Sq.m. a.	
Surat	Panch Maháls	•••••		Reserved :	212,199	331 359	•••		212,199	331 3 59	. •••••
North Thúna	Surat	*****	Q		463,507	724 147	***	•••	463,507	724 147	,
Both Phásik Boserved A50,014 S78,222 A61 S2 S2 S2 S2 S2 S2 S2 S				Do			(a) 20				
North Kaik North Kaik North Kaik North Kaik North Christian N	South Thána	*****	Do	- Do	218,333	341 93	•••		218,333	341 93	No. 7.
Bouth Kásik Do. Do. 287,822 449 462 107,662 (3) 660 394,824 615 624 Do. Do	North Násik	*******	Násik	Reserved	450,144	703 224			342,745	535 345	
CENTRAL CHRCLE. East Khán CHRCLE. East Khán Chan Chron. East Khán Chan Chron. Chro	South Néaik	*****	Do	Do	287,822	449 462		(b) 660	394,224.	615 624	
East Khán-desh. Weet Khán Capt. Capt.		,			2,085,021	3,257 541	107,106	108,084	2,084,043	3,256 ,203	
Week Khán desh Do desh Do desh desh		*****	East Khán-	Reserved	488,634	763 314	•••	19	488,615	763 295	
Do. Do. Do. S55,766 868 246 555,766 868 246 565,766 868 246 565,766 868 246 565,766 868 246 565,766 868 246 565,766 868 246 565,766 868 246 565,766 565,766 565,766 568 246 565,766		*****	West Khán-	. Do	346,655	541 415		14	381,360	5 95 560	*G. R. No. 16: dated 11th F bruary 1916.
Ababa Poona Ahmednagar Protected Sekfara Do. 380,842 576 2 763 72,508 366,897 578 177 70, 308, 308, 308 308,842 30	North Kháu-	440	Do	Do	555,766	868 246		•••	5 55,766	868 246	
Stára Colabor Colabo	desh.	*****			368,642	576 2	763	† 2, 508	366,897	578 177	†G. B. N
SOUTHERN CIRCLE. Kánara, N. D As constituted up to life February 1916. Kánara and Life February 1916. An readjusted from Life February 1916. No. Do. Do. Do. Do. Do. Do. Do. Do	Sátára		Sátára	Do		5 16 1 06		79		516 250	3913, date 20th April 191
Kánara, N. D A constituted up to start and new part of the constitute of the constitute of the constitute	SOUTHERN	•		Total, Cen-	2,359,331	3,686 291	35,745	2,621	2,392,455	3,738 135	
Kánara, E. D lat February 1916. As constituted up to Sist January 1816. Reserved Mispar. Bijápur Sist January 1816. Ratnágiri Belgaum Chárwár and Upper Sind Frontier. Sukkur and Upper Sind Frontier. Sukkur and Upper Sind Frontier. Sukkur and Upper Sind Frontier. Suk k u r. Lár k á na and Nawabashah. Hyderabad Ratnágiri Broad and Karáchi and Nawábashah. Hyderabad Ratnágiri Broad and Karáchi and Nawábashah. Hyderabad Ratnágiri Broad and Karáchi and Nawábashah. Hydera ba d. Ratachi and Nawábashah. Hydera ba d. Ratachi and Nawábashah. Hydera ba d. Ratachi and Nawábashah. Hydera ba d. And Karáchi and Karáchi and Karáchi. Total, Sind T		S1st January 1916.		Reserved and Protected.	479,095	748 375	}	1	271,130	423 410	*****
Central As readjusted from lat February 1016. Ménara and Do. Ménara Do. Ménara Do. Ménara Do. Ménara Ménara Do. Ménara Ménara Do. Ménara Ménara Ménara Ménara Do. Ménara Ménara	Kánara, E. D	1st February 1916. As constituted up to	Dhárwár.	i		Ĭ	•	,		,	
Kánara, S. D Ré Fébruary 1918. Kánara Do Do G24,951 976 311 8 31 8 31 31 438,878 27 498,946 779 286 458,079 707 599 † Vide. No. 7. No. 7		As readjusted from 1st February 1916.	Kánara and	n _o		Ì	} }	{ }	410,023	640 4 33	*****
Sist January 1916, As readjusted from Do Do Do Do Sist January 1916, As readjusted from Do Do Do Sist January 1916, As readjusted from Do Do Do Do Sist January 1916, As readjusted from Do		1st February 1916.	Kanara	*****	****** .		‡498,876	27	498,846	779 286	*****
Kánara, W. D	Lanars, S. D	31st January 1916. As readjusted from 1st February 1916.	Do	Do	*****	***	3,424	‡215,273	453,079	707 599	† Vide For No. 7.
Belgaum	Kánara, W. D	31st January 1916. As readjusted from	_				 } `	1 }	535,805	837 125	
Dhárwár Single		As constituted up to						185)	401,369	627 89	*****
Bijapur As constituted up to All State As a constitute up to All State As		_	Dharwar and	Do	• •••••	***	•••	1 1	186,412	291 172	••••
Ratnágiri Ratnágiri Do 12,052 18 532 2 12,054 18 534 Total, Southern Circle. Sukur and Upper Sind Frontier. Ldrkána Ldrkána Ldrkána Hyderabad Jerruck Total, Southern Circle. 2,776,118 4,337 438 {932,405; 1932,224 } 2,768,718 4,326 78 9,132} 2,768,718	Bijapur. Bijapur	brunry 1916. As constituted up to	Dijapa.		139,464	217 584	13	22			
SIND CIRCLE. Sukkur and Upper Sind Frontier. Lárkána Hyderabad Jerruck Total, Southern Circle. 2,776,118 4,337 438 {932,406‡ 1932,224 9,182} 2,768,718 4,326 78 9,182} 2,768,718 4,			Ratnágiri	Do	12,052	18 532	. 2	, •••	12,054	18 534	****** ^
Sukkur Sukkur and Upper Sind Frontier. Lárkána Sukk ur and Upper Sind Frontier. Suk k ur, Lárkána Suk k ur, Lárkána Do 146,175 228 255 \$3,461 \$1,361 148,275 231 435 Hyderabad Hyderabad Hyderabad Jerruck Total, Sind 736,836 1,151 196 24,252 18,626 742,462 1,160 62		. •			2,776,118	4,337 438			2,768,718	4,326 78	
Frontier. Sukkur, Lárkána Hyderabad Jerruck Total, Sind 786,836 1,151 196 24,252 18,626 742,463 1,160 62 Circle.		******	Sukkur and Honor Sind	Forests	284,156	443 636	§ 11,689	§·4,530	291,315	455 115	
Hyderabad Jerruck Jerruck Total, Sind 786,836 1,151 196 24,252 18,626 742,462 1,160 62	Lárkána ···	•••••	Frontier. Sukkur.	Do.	146,175	228 255	§ 3,461	§ 1,361	148,275	281 485	41***
Jerruck Nawabshah. Hyde r a b a d and Karachi. Total, Sind 736,836 1,151 196 24,252 18,626 742,462 1,160 62	Hyderahad	*****	and Nawab- shah. Hydera b a d,		159,031	248 811	§ 2,670	§ 5, 225	156,476	244 31 6	******
Total, Sind 788,836 1,151 196 24,252 18,626 742,462 1,160 62 Circle.			Nawábshah. Hyderabad	,	147,474	230 274	§ 6,432	· §7,510	146,396	228 476	*****
Circle.	•		and Karáchi.	Water Charles	70 0 CO 0	. 1 151 100	94 959	18.626	742.462	1,160 62	
Grand Toxal 7,957,306 12,432 491 1,101,059 1,070,687 7,987,678 12,480 478	, ,	*		Circle.		12,432 431		1,070,687	7,987,678	12,480 478	

§ Transferred from Rever tue Department. § Out of these 2,400 acres transferred from Revenue Department.

FORM No. 7-C.—Area of Fodder Reserves and Pasture Lands under the management of the Revenue Department for 1915-1916.

Division.	Range.	Civil District or Territory.	Name of Forest	Area on 1 1915	lst July •	Added during the year.	Excluded or transferred to ther heads.	Area on 80		No. and date of Notification of addition
•	,			Acres	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	or transfer.
1	11	2	3	4	5	б	7	8	9	10
NOBTHERN CIRCLE	·			Acres.	Sq.m. a.	Acres.	Acres.	Acres.	Sq.m. a.	·
Surat		Surat	Reserved	8,092	12 412		***	8,902	12 412	·
North Thana	****	Thána	Protected	93,479	146 89	•••	(6) 7	93,472	146 82	Vide Form
Central Thána	*****	Do	Do	62,357	97 277	•••	(8) 7	62,850	97 270	No. 7A. Do.
South Thána	*****	Do	D o	92,443	144 283	(a) 1	(8) 14	92,430	144 270	. Do.
North Násik	****	Násik	Do	3 6,835	57 955	•-•	1,218†	85,617	55 417	tion in Survey Sind. † Transfer of Kal- wan Bange from North Nasik to South Nasik, vide
		,	·					• •		G. R. No. 8506, of 24-3-15. (a) 8544 2595 11-8-15, 7-3-16- (b) 1099 29-1-16.
South Násik	******	Do	Reserved and Protected.	63,638	99 278	(a)1,573	(b). 33 5	64,876	101 236	*****
Ahmedabad		Ahmedabad.	Reserved	12,032	18 512	400		12,032	18 512	
	,		Total, Northern Circle.	368,876	576 236	1,574	1,581	368,869	576 229	
CENTRAL CIRCLE.		ļ ,.	· ·		,					
East Khándesh		East Khan-	Reserved	23,344	36 304		89	23,255	86 215	
West Khandesh		desh. West Khan	Do	7.47.040	231 102	•••	34,675	113,267	176 627	5 a 40 mg
Poona	•••••	desh. Poona and	Do	284,538	444 378	,	175	286,763	448 43	
Sátara	A	Ahmednagar Sátára	, Th.	124,971	195 171	· ·	131	124,840	195 40	*****
Kolába	•••	Kolába	Reserved and	65,841	102 561	•••	18	65,823	102 543	*****
Ahmednagar and sholapur.	•	Ahmednagar and Sholá-		498,056	778 136	2	24,990	473,068	739 108	******
SOUTHERN	,	pur.	Total, Central Circle.	1,144,692	1,788 872	2,402	60,078	1,087,016	1,698 296	
CIRCLE.	As consti-	,	D			<u>,</u>				
Kanara E	tuted up to		Reserved	*****	• •••	J				
•	ary 1916.	Karara and	Do			} * 2,329	•••	2,329	8 409	*****
	ed from 1st February 1916.	Dhárwár	100.	******		١.				
Belgaum	*****	Belgaum	Do	83,962	5 3 4 2	•••		33,962	53 42	
Dhárwár	tuted up to 31st Janu-	Dhárwár	Do	96,528	150 523	•••	2 ,510			*Transfers of areas on account of re- adjustment of
Dhárwár and Bijá- pur.	ary 1916.	Dhárwár and	Do	******	•••	***		131,642	.205 442	Division, vide G. O., R. D., No. 11369 of 27-10-15.
Bijápur	arv 1916.	Bijápur	Do	37,629	58 509	•••			(• *
	31st Janu- ary 1913.	*					•			, .
. *	, y	,	Total, Southern	168,114	262 434	# 0 000	# 0 # 1 0			• .
SIND CIRCLE.			Circle.		262 434	* 2,829	* 2,510	167,938	262 258	
Jerruck	******	Karáchi	Malir	24	0 24	•••		24	0 24	
,	,		Total, Sind	· 24	0 24		. 100	24	0 24	******
			Circle. GRAND TOTAL	1,681,706	-	•	 -			h.
		٢.	TOTAL	1,001,708	2,627 426	6,305	61,169	1,628,842	2,537 162	•

ABSTRACT OF FORMS Nos. 7, 7-A, 7-B and 7-C.

•		•	In charge of	the Forest Dep	artment.	
Division.		•	Reserved Forest.	•	Protect	ed Forest.
1	1	Forest proper.	Pasture reserves.	Fuel and Fodder reserves.	Forest proper.	Pasture reserves.
NORTHERN CIRC	CLE.	Sq.m. a.	Sq.m. a.	Sq.m. a.	Sq.m. a.	Sq.m. a.
Panch Maháls Surat North Thána • Central Thána South Thána	***	331 359 399 134 331 389 369 175 332 211	******	3 0 	325 13 3 631 8 522	****** ****** *****
North Násik South Násik Ahmedabad	•••	\$35 845 614 634		0 630	•••	*****
To	tal ·	2,914 3 27	*****	3 630	337 526	•••••
CENTRAL CIRC	LE.	•				
East Khándesh West Khándesh North Khándesh Poona Sátára Kolába	•••	763 295 464 533 868 246 562 78 515 232 417 78	*****	131 27 3 449	11 99 1 18	******
Ahmednagar and Shol	ápur		*****		***	•••••
To	otal	3,591 182		134 476	12 117	•••••
SOUTHERN CIR	CLE.		-	<u>-</u>		
Kánara, Northern Kánara, Eastern Kánara, Central Kánara, Southern Kánara, Western Belgaum Dhárwár Bijápur Ratnágiri		422 196 518 433 640 383 385 481 761 125 627 77 266 512 13 534	116 546 90 278 256 323 63 110 12 326	0 23 11 614 5 0	48 265 65 435 0 12	0 57 5 84 12 530
To	otal	3,636 181	540 437	16 637	114 72	18 31
SIND CIRCLE	e:	`				
Sukkur Lárkána Hyderabad Jerruck	•••	454 170 231 435 244 316 228 476		•••	0 585	******
T o	otal	1,159 117	•••••	***	0 585	
GRAND TOT	FAL	11,301 167	540 437	155 463	465 · 20	18 31

7-B and 7-C for 1915-16.

•	1	n charge of the Re	venue Departme	nt.		
		Reserved Fores	t.	Protected Forest.	Total Forest	Remarks.
	Forest proper.	Pasture reserves.	Fuel and Fodderreserves.	Pasture reserves.		
	Sq.m. a.	Sq.m. a.	Sq.m. a.	Sq.m. a.	Sq.m. a.	
		3 53	9 359	146 32 97 270 144 270	331 359 736 559 480 421 470 436 485 363	
	•••	55 417 11 628	1 424 18 512	87 464	591 122 717 220 18 512	
	•••	70 458	30 15	475 396	3,832 432	•
	*** *** *** ***	36 215 176 627 448 43 189 385 29 16	 5 295	73 527	799 510 772 547 868 246 1,021 220 711 290 523 430	
	B40	739 108	•••		739 108	
	•••	1,619 114	5 295	73 527	5,436 431	
		9 400	•••	•••	423 410	
	i 0	3 409 50 42 205 422	2 0	•••	644 192 779 286 707 599 837 125 680 131 496 614 18 534	
-	1 0	259 253	2 , 0	•••	4,588 331	• `
	0 24			 •	455 115 231 485 244 316 - 228 500	· ·
	0 24	****			1,160 86	
	1 24	1,949 185	37 310	549 283	15,018 0	

FORM No. 8.—Statement showing the Progress made in, and the

	 -			· Areas pinali	Y SETTLED	DURING THE	YRAR.	•
Name of Forest Division.	Name of Civil District or Territory.	Area already settled at commence- ment of the year.	Number and date of Government order according final sanction to the	Name of Forest settled.	Area in 'square miles.	Expenditur during the y finally	ear on areas settled.	Entire cost per square mile of areas finally settled
			Settlement.	•	-	In Forest Accounts.	In other Accounts.	during the year.
1	2	3	4	5	6	7	8	9
NORTHERN CIRCLE,		Sq. m.				Rs.	Rs.	Rs.
Reserved Forest.		,	·	·				
Panch Mahála	Panch Mahals	832		gest 69	100	•••	•••	•••
Surat	Surat	412		410.02	100	•••	***	140
North Tháns	Thána	835	>4	516·46	***	•••		•••
Central Thána	Do	3 69	• .	****	400	***	•••	.•••
South Thána	Do	332	•••	000100	***	•••		***
North Násik	Násik	591	13103 7-12-15	Sakore	<u>24</u> 640	•••	· ·	***
	•	,	8477 9-8-15	Belgaon Dhaga	440	•••	•••	
South Násik	Do	631	11606 1-11-15 1658 12-2-16	Metkilla Trimbak . Torangaon Igatpuri.	13 640 			***
Ahmedabad	Ahmedabad	19	12-2-16	·•	440	•••		•••
		<u> </u>	<u> </u>			<u> </u>	\ 	
_	Total	8,021		*****	37 640		•••	•••
Protected Forest.								·[
_ · .	Surat	325						
٠.	Th 4	[(107-08	***		•••	
	Do		***	***	***	440	* **	•••
South do.	- ·	102 153	P04 ·	*****			•••	
	D0	193	9554	******	۱	•••		***
South Násik	Násik	87	8554 11-8-15 2595 9-8-18	Undhol Murunti Dalpatpur	854 640	***	***	} •••
		·	•	-				
	Total	815	. 900	e' 1 ************************************	854	950		***
	Total, Northern Circle	8,834		*****	391	***	898	

Expenditure incurred on, Forest Settlements during 1915-1916.

н 1495—23

,	ARBAS	UNDERGOING SETTLE					
At commencement of		Taken in hand the year.	- ,	Expenditu during th areas un Settle	re incurred to year on dergoing ment.		Remarks.
Name of Tract.	Area in square miles.	Name of Tract.	Area in square miles.	In Forest Accounts.	In other Accounts,	•	
10	11	12.	13	14	15		16
				Rs.	Rs.		
•						i	
******	400	400101	•••	702	>46		
*****	048	******	•••	•••	400 -		
446702	***	. •••••	•••			·	
Ueseas	•••	400****	301	***	***		
. uer490	•••	#55xeb		148	e au		
101-00	•••	######################################	•••	4.00	•=•		
*******	***	*		***	***		
.004747	***	********			800	·	
809133	-	r.	****,	•••	100		
		<u> </u>					
.,,000	•••	*****	····				
	,	•	5			}	
0.01444	***	* COQ+DG		•••	•		
• • • • • • • • • • • • • • • • • • •	***	46258	•••		***		
130	••• ·	. ••••• 	•••	146	***		
,.,1466	400	******	100	•••	, 103		
,, 000		*****	•••	***	***	, - 	
	· 		-	 		! .	
, (11)	***	•••••		••• :			
1					•		
* 105***		*******	 	•••	***		·

FORM No. 8-Statement showing the Progress made in, and the

	<u> </u>	•		Arbas Pinali	Y SETTLED	DURING THE	Year.	
Name of Forest Division.	Name of Civil District or Territory.	Area already settled at commence- ment of the year.	Numebr and date of Government order according final sanction to the	Name of Forest settled.	Area in square miles.	during the y		Entire cost per square mile of areas finally settled
- 1			Settlement.			In Forest Accounts.	In other Accounts.	during the
1	2	8	4	5	`6	7	8	9
CENTRAL CIRCLE.		Sq. m.				Rs.	Rs.	Rs.
Reserved Forest.		ļ			ļ			
East Khandesh	East Khandesh	800		Da1429	196	,	•••	•••
West Khandesh	West Khándesh	773	3887 8-4-16 9813 14-9-15	Mhasdi Raikot	\ \begin{pmatrix} \frac{14}{640} \\ \frac{30}{640} \end{pmatrix}	}	•••	•••
North Khandesh	North Khandesb	868		6 p 0 200 p	•••	•••	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Poona	Poona	1,010	5832 & 5835 26-5-15 8819 17-8-15 11119 19-10-15	Kandwal, Chin- chode, Aglambe, Bahuli, Dhake, and Khamande Tambe, Shirdhe,	}			***
Sátára	Sátára	711	•	***************************************	224	•••	***	•••
Kolába	. Kolaha	450	8313 4-18-15 9272 80-8-15	Warose Chinchol Atgav, Bid Khurd.	40	***		***
Ahmednagar-Shola- pur	Ahmednaga: Sholápur.	r- 739	•••		***	***		•••
	Total .	5,351	•••	******	1 431 640	***		
Protected Forest.								
Poons	Poons	. }				•••		•••
Bátára	Sátára	. 1			/ ***	•••	***	•••
Kolába	Kolaba	74	•••	******	93.0	•••		•••
	Total	. 86	, 145	******	•••		***	
	Total, Central		***	*****	1 431	120	•••	

Expenditure incurred on, Forest Settlements during 1915-1916—continued.

·	ARKAS T	INDERGOING SETTLEM	ENT.			* * *			
. At commencement of t	the year.	Taken in hand the year.	during	Expenditure during the areas un Settle	re incurred e year on dergoing ment.		Remark	s.	
Name of Tract.	Area in square miles.	Name of Tract.	Area in square miles.	In Forest	In other Accounts.		• •	;	, ^ '
10	11	12	13	14	15		16	,	
				Rs.	Rs.		,	•	·
•					,		•		
		· ·			,	•			:
******	· • • •	*******	•••	•••	. *** *				` 4
dhasdi Pangan	265 .				•	Notificatio	. No. 10	0588	12320
anasu Fangan	640	•••	•••		•••	140mile aut	M 1(03, 5-	10-15,	10-11-1
******	***	Sangwi	430 610		•••	° Do.		3208 1-6-15	
	***	••••	286 610	•••	•••	4981 4-5-15, 5720	5920 24-5-15, 1 9031	370 2-1-10, 11313	2593 7-3-16, 1323
·						24-5-15,	23-8-15, 2	6-10-15,	8 12-1
			,						•
	2 46		45		•••	5721	9811	981 2	981
497***	640	1	ช่อย			† 5721 24-5-15, 9816 14-9-15.	.10335	5722	14-9 1 572: 24-5-1
100100	•	•••••	•••	•••		14-9-15, 11116 19-10-15,	28-9-15, 10584 7-10-15,	24-5-15, 1 100 3-3-16.	
	:						·· ·		•
				:		•			
	•••	•••	***	•••	•••				
	511 640		1 ¹²¹ 640	•••					
		·				,			
*****	***	*****			; .				
220100	•••		•••	•	• •••				
• • •		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		140	•••				
551	1								
48999	444	*****	100	•	•••				
******	511 640	100	1 <u>121</u>		•••	• •	<u>.</u>		

FORM No. 8.—Statement showing the Progress made in, and the

-	· ,			Arbas finally	SETTLED D	UBING THE YE	AR _e	
Name of Forest Division.	Name of Civil District or Territory.	Area already settled at com- mence-	Number and date of Government order according	Name of Forest scttled.	Area in square	Expenditure during the y	re incurred ear on areas settled.	Entire cost per square mile of areas finally
•	•	ment of the year.	final sanction to the Settlement.	• scitlea.	miles.	In Forest	In other Accounts.	settled during the year-
1	2	3	4	5 ,	6	7	8	9
SOUTHERN CIRCLE. Reserved Forest.		Fq. m.				Rs.	Rs.	Rs.
Kánara, Northern {	Kánara Kánara and Dhárwár.	} 424	100	Area added by rectification of mistake.	281 640	140	***	•••
Do. Eastern	Kánara and Dhárwár.	639	7742 & 5939 19-7-15 12-6-16	Do Katur and Pala	640 7 640	} ,	,	***
Po. Central (New Division from 1-2-16).	Kánara	- 731	- Gag	******	***	***	•=•	•••
Do. Southern {	Do	642	11317 28-10-15	Honawar Range	17	***	***	•••
Do. Western	Do	824	12978	Supa Range	160 640	•	•••	***
Belgaum	Belgaum	679	5830 & 5834 26-6-15 6087 8818 2-6-16 18-8-15 10615 & 10616 5-16-15 13328 3155 23-10-15 22-3-10 3447 26-3-16	Kanapur Renges .	1 ³⁸²	•••	•••	****
Bijáp ur	Dhárwár Bijápur Dhárwár Bijápur (New combined Division).	497{	6077 to 6079 12-8-15 10932 1803 13-10-15 16-2-16 9663 10-9-15	Dhárwár, Kalghatgi, Bankapur and Bigalkot Ranges	. 640	·	•••	****
Ratzágiri	Ratnágiri	19	<u>5191</u> 10-5-15	Dapoli	2 640	***	***	•••
- ·	Total, Reserved Forest	4,455	***	****	2 <mark>271</mark>	•••	•••	***
Protected Forest.								
Kánara, Northern {	Kánara and Dhárwár.	} <u>57</u>	*48	*****	•••	. •••		• • • • • • • • • • • • • • • • • • • •
Do Eastern.	Kánara and Dhárwár		***	******	··· .	***		400
Do. Central (New Division from 1-2-16).	Kánara	48 265 640	Fed	•••••	•••	. 	***	900
Do. Southern.	Do		•4•	******	***	***	****	
Do. Western {	Do	$\left.\right\} 12^{\frac{530}{640}}$	***	******	•••	***	***	•
elgaum		640	*4*	******	···	***	***	,,,
	Total, Protected Forest Total, Southern	132 649	•••	*****		496'	441	. ,
	Cirele		***	45.1	2 2711 64 0	440	•••	***

Expenditure incurred on, Forest Settlements during 1915-1916—continued.

	AREAS	UNDERGOING SETTLE	MENT.			•
At commencement of	the year.	Taken in hand the year.	during	Expenditudering to on areas of Settler	re incurred the year indergoing ment.	Remarks.
Name of Tract.	Area in square miles.	Name of Tract.	Area in square miles.	In Forest Accounts.	In other Accounts.	•
10	11	12	13	14	15	16
			<u>. </u>	Rs. ,	Rs.	Arong distances A to a last last last
				}		Areas disforested Areas lost by recti- during the year. fication of errors in measurements and records.
\$9840 0	•••	400-115	76	***	***	A. q. A. q. 21 8
******			5 <u>100</u>		i, 	
******	•••	2 4 0 5 4 0		100	****	55 22 1 32
144100		400100	2· 640	***		27 12
*****	806	300	91 640	•••	***	80 88
•				1		,
- 440 198	944	>***	341 640	•••	444	51 14 7,843 0
			} ,		·	
			64			
0 01454	.*** ·	441940	640	140	•••	******* *******************************
• .		,				-
						<u>.</u>
600100	***	420009 4	2 <mark>72</mark>	***	,	206 80
			,		·	
	, ,		}			
P80200	*4*	046146	100	•••	100	
620104	·••	wepens	8 <mark>24</mark>		746	*Areas as they stood after the read- justment of Divisious in the Kanara, Dharwar and Bijapur Districts as per
		· ·			;	Dhárwár and Bijápur Districts as per G. O., R. D., No. 11396 27-10-15.
	·					27-10-15.
Sõiesa	. 200	980464	***	•••	***	,
. Popret	***	948110	•••	**	•••	
******	. ***	*******	***************************************	466	, •••	
******	•46	400100	***	•••	***	0 5 896 0
			.	,	. }	
******	•••		***	/ ***		
100100	• • • • • • • • • • • • • • • • • • • •	344100	• • • • • • • • • • • • • • • • • • •	944	•••	•
			996	***	111	
			24		100	•
******	***	Mbert	8 ²⁴ / ₆₄₀	•••		

APPENDICES.

FORM No. 8.—Statement showing the Progress made in, and the

		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	••	•	<u> </u>	<u> </u>		
· · ·	•	1.4		ARBAS FINALLY	Y SETTLED I	OURING THE Y	EAR.	• .
Name of Forest Division.	Name of Civil District or Territory.	Area already settled at com- mence- ment of	Number and date of Government order according	Name of Forest settled.	Area in square miles.	during the	re incurred year on areas settled.	Entire cost per square mile of areas finally
		the year.	final sanction to the Settlement.	, ,	miles.	In Forest Accounts.	In other Accounts.	settled during the year.
1	2	3 4	4	5.	6	1 7	8	9
SIND CIRCLE.	. [Sq. m.		<u> </u>	Sq. m. a.	Rs.	Rs.	Rs.
Sukkur	Sukkur and Upper Sind	443	11631 2-11-15	Deh Cheto Loi	0 <u>010</u> 800	***	•••	
	Frontier.		Do.	Deh Boung	1 484]		
			1101 	Deh Adilpur Bage Mahi Chek Kaz, Shapuad Badal.	0 135			
		,	3758 22 3-16	Cubaro	0 74 640			
				Deli Machi	0 <mark>25_</mark>			
			11549 30-10-15	Kacho Belo Gon dak.	4 224	, '		
•				Kacho Sundrane	4 <mark>615</mark>	,	,	
•	Total	443	***	****	11 69 .	***		
Lárkána	Sukkur, Lárkána and Nawábshah,	228	***	à de ess	•••		***	400
						!		
	Total	228	•••	******		•••	444	***
Hyderabad	Hyderabad, Karáchi and /Nawabshah.	249	***	******	*4*	•••	444	**** ,
, • • · · · · · · · · · · · · · · · · ·		١						•
	Total	249	•••				•••	•••
Jerruck	Karáchi a n d Hyderabad.	230	•••	402-00-0		49=	100	•••
,		•					-	
	Total	230	***	*****	•••		***	•••
	Total, Sind Circle	1,150	•••	###· ##	11.68	•••		•••
	GRAND TOTAL	15,023 12	* ***	******	15 521 640	404 /	•••	4 44

	ARBAS	UNDERGOING SETTLE	·			
At commencement of t	he year.	Taken in hand the year.	during	during the	reincurred to year on dergoing ement.	Remarks.
Name of Tract.	Area in square miles.	Name of Tract.	Area in square miles.	In Forest	In other Accounts.	•
10	11	12 ·	13	14	15	16 :
Shikárpur Táluka •••	2 140 640	fetrag ;	•••	Rs.	Rs.	
7hotki Táluka	0 135 640				•	
Rohri Táluka •••	0 74				-	
Pano Akil Táluka 🛶	0.25				7	
Kashmore Táluka	8 330					
	·				<u> </u>	
******	*11 64	. 406-94	***	•••	•••	The difference of four scree is due t the area shown in the notification published under sections 4 and 19 of
Mehar Táluka	0 2 3		• • • • • • • • • • • • • • • • • • •	***	***	the Indian Forest Act.
_						•
*****	0 2 640	*****	•••	***	• •••	
Hyderabad Táluka	*0 <u>197</u>	Deh Jhirki Táluka Hala.	0 840	•••		*In Deh Shah Bukari Taluka Hyder abad 32 acres were notified unde section 4 of the India Forest Act
Hala Táluka	0 $\frac{140}{640}$ 0 $\frac{329}{640}$,				vide Government Resolution No. 3567 of 4th April 1908, Revenu Department. On further enjuiry i was found that this area originally belonged to Deh Gundi which after
	<u>.</u>				·	the Revision Survey was numbered Survey number 351 and 352 of Del Shah Bukhari and was wrongly re
*****	1 26 640	******	0 8 640			notified under section 4 of the Indian Forest Act. The area cannot therefore be stated to be awaiting settlement under
*****	 ,	******* 7	•••	. ***	740	section 19, and is therefore dropped
		,	·			
*****	****	*******	•••	•••		
, ,	12 <u>93</u> 640	*****	0 840		* •##	
. 101700	12 603	5	9 154	***	***	

APPENDICES.*

FORM No. 9.—Record of Demarcation and Maintenance of Boundaries, 1915-1916.

	<u> </u>
ength Léngth of Length of Doundaries act the close demarcated acres demarcated control of the co	Remarks.
close at the close of the year. of the year. of the year. On new work. On repairs.	
5 6 7 8 9 10	11
iles. Miles. Miles. Milos. Rs. a. p. Rs. a. p.	
959 101 1,060 6 0 0	
835	
835 666,66 103 855 666,66 154 0 0	
968 19 987 877 0 0	
875 989 989 463 0 0	
2/D	
898 59 957 223 0 0	
2,673 108 231 8,012 182 0 0 48 0 0	
1,170 1 91 1,262 196 0 0	
8,378 109 718 9,205 162 0 0 1,947 0 0	
2,183 255 0 0	
817 26 67 910 192 0 0 801 0 0 74 m the	niles of boundaries of lands to be afforeste Nawapur and Nandur
309 52 361 587 0 0 add	Ranges having bee ed during the year.
3,756 658 615 5,029 400 0 0 429 0 0	· .
4,254 80 4,334 480 0 0	
	`.
1,796 162 72 2,030* 2,021 0 0 709 0 0	
18,115 846 993 14,954 2,613 0 0 2,561 0 0	,
623 14 637 16 0 0 The	o dii es between the las
and due	e dii s between the las this year's figures i to rectification,
3,563 31 1,594 148 0 0	•
	·
	•
2,804 108 · 3,912 Rs. 95	(_10_0 മിവയന നമ്മ
2,804 come 108 b,912 come Re, 85 A VI of de and plan	s-10-0 shown unde III-a is on accoun emarcation of betta clearing working lines.

FORM No. 9.—Record of Demarcation and Maintenance of Boundaries, 1915-1916—concluded.

Do. Western 16 1,707 1,513 49 152 2,012 .765 0 0								, ,			•
1	Division.	artificially demarcated	existing Boundaries	existing Boundaries	Total length of artificially marked Boundaries	Length of Boundaries still to be demarcated	Boundaries not requir-	length of Boundaries at the close	DURING T	ń Demarcation ub ybar.	Bemarks,
SOUTHESN Miles,			repaired,		of the year.	of the year.	marks.	of the year.	On new work.	On repairs.	
Reference 1,040 2,000 3,840 100 4,840 1,022 0 0 1,022 0 0 1,023 0 0 1,024 0 0 1,025 0 0	1	2	3		5	6	7	8	9	.10	11
Reference 1,040		i .	Miles.	Miles.	Miles.	Miles,	Miles.	Miles.	Rs. a. p.	Rs. a. p.	
Résular, Southern 1.000 2.000 3.040 100 4.040 1.682 0 0 Dee not faciliste Res 7:4-4 on scionario de Saveyare de collègencies. De. Western 15 1.707 1.612 48 152 2.012 .709 0 0	CIRCLE—concluded.	,	[]		 -						
Do. Western 16 1,707 1,612 48 152 2,012 .708 0 0		٠, ٠,			•	·		,	·		
Beignam 11 47 1,710 1,765 120 1141 2,029 200 0 0 604 0 0 Fixeletes charges for quarriers, contracts of every contractions, contracts of every contractions, contracts of every contract of every con	Kanara, Southern	1,040	484	2,900		_ 688+eq	. 100	4,040	1,682 0 0	1	Does not include Rs. 71-4-4 on account of Surveyor's contingencies.
Esignam 11 47 1,710 1,765 120 141 2,019 200 0 604 0 0 Excitots charges for quarrying coercises for the control of the cont	Do. Western	15	*****	1,707	1,812	·: 48	152	.2,012	. 769 0 0	****	
DharedBijfspar 2 688 680 1,215 8 20 1,252 24 0 0 30 0 0 0 example of stores, ordering o					•	•	-	•			_
**************************************	Belgaum	11	47	1,710)	120	141	2,029	269 0 0	504 O O	Excludes charges for
(Now Combined Division) Estafagiri		,	·							, .	demarkation stones, wages of surveyor's
Total Southern	*Dhárwár—Bljápur .	2	583	1		. 8	29	1,252	24 0 0	30 0 O	surveyor's. kit, etc., ois., Bs. 438-0-0.
Rainágiri		,		•			·				
Total, Southern Circle	(New Combined Division.)			•	•				,		
Grand Total, Eind Circle 1,068 656 13,141 14,805 176 645 15,638 2,435 0 0 699 0 0 SIND CTRCLE. Miles. ft. Miles. ft. Miles. ft. Miles. Miles. ft. Mil	Bainágiri	, ém	******	. 140	. 140	sbyraje	70	210	*****	, kog 198	*
Grand Total, Eind Circle 1,068 656 13,141 14,805 176 845 15,686 2,743 0 0 688 0 0 SIND CTRCLE. Miles. ft. Miles. ft. Miles. Miles. Miles. Miles. ft.		•	,	•		•				•	
SIND CIRCLE. Miles. ft. Miles. ft. Miles. Miles. Miles. Miles. Miles. Miles. Miles. ft.	Total, Southern Circle	1,068	656	13,141	14,865	176	645	15,686	2,743 0 0	698 0 0	
Sukkur		Miles. ft.	Miles. ft.		Miles. ft.	Miles.	Miles. ft.	& Miles. ft.			
Lárkána 8 3,690 497 2,587 503 1,287 77 1,184 583 2,451 Hyderabad 4 1,698 342 2,441 346 4,140 184 2,559 581 1,419 Jerruck 4 3,060 283 3,377 287 2,057 109 438 483 2,495 Total, Sind Circle 34 860 2,033 4,665 2,063 245 633 2,205 2,706 2,510 Grand Total 1,343 600 11,223 4,665 25,859 38,423 245 1,131 2,994 2,385 42,551 2,510 5,518 0 0 5,206 0 0	Sukkur	16 1,804	911 1,537		927 3,841		160 8,364	1,108 1,425	******	000000	
Hyderabad 4 1,606 342 2,444 346 4,140 184 2,559 581 1,419 Jerruck 4 3,960 283 3,377 287 2,057 196 438 483 2,495 Total, Sind Circle 34 860 2,033 4,665 2,063 245 638 2,295 2,708 2,510 Grand Total 1,343 800 11,223 4,665 25,659 38,423 245 1,131 2,994 2,395 42,551 2,510 5,518 0 0 5,206 0 0				1				- ,			
Hyderabad 4 1,608 342 2,441 346 4,140 134 2,559 581 1,419 Jerruck 4 8,060 283 3,377 287 2,057 106 438 483 2,405 Total, Sind Circle 34 860 2,033 4,665 2,063 246 638 2,205 2,706 2,510 Grand Total 1,343 800 11,223 4,665 25,859 38,428 245 1,131 2,994 2,385 42,551 2,510 5,518 0 0 5,206 0 0	A Lárkána	8 3,690	497 2,587	204-64	506 1,287	******	77 1,184	583 2,451	000 to .	100/110	
Hyderabad 4 1,606 342 2,444 346 4,140 184 2,559 581 1,419 Jerruck 4 3,060 263 3,377 287 2,057 106 438 493 2,495 Total, Sind Circle 34 860 2,033 4,605 2,063 245 638 2,205 2,706 2,510 Grand Total 1,343 660 11,223 4,665 25,659 38,428 245 1,131 2,994 2,285 42,551 2,510 5,518 0 0 5,206 0 0			<i>I</i>								
Jerruck 4 3,060 283 3,377 287 2,057 196 438 483 2,495 Total, Sind Circle 34 860 2,033 4,665 2,063 245 638 2,205 2,706 2,510 Grand Total 1,343 660 11,223 4,665 25,859 38,426 245 1,131 3,994 2,355 42,551 2,510 5,518 0 0 5,206 0 0	·	4 4 500	212 2 44		, .		724 9 550	681 1 419			
Jerruck 4 3,960 283 3,377 287 2,057 196 438 483 2,495 Total, Sind Circle 34 860 2,033 4,665 2,063 245 638 2,265 2,706 2,510 GRAND TOTAL 1,343 860 11,223 4,665 25,859 38,428 245 1,131 2,994 2,385 42,551 2,610 5,618 0 0 5,208 0 0	Hydembad	4 1,600	342 2,441	*****	030 ±,120	,	104 2,000				
Total, Sind Circle 34 860 2,033 4,665 2,068 245 638 2,205 2,706 2,510	٠.				•						
Total, Sind Circle 34 860 2,033 4,665 2,068 245 638 2,205 2,706 2,510	Jerruck	4 3,960	283 3,377	*****	287 2,057	202100	196 4 38	483 2,495	001+10	Of Page	
GRAND TOTAL 1,313 800 11,223 9,685 20,500	Total, Sind Circle	34 860	2,033 4,665	168491	2,068 245	1944 ÷	638 2,265	2,706 2,510		434746	
GRAND TOTAL 1,313 800 11,223 9,685 20,500	ı										
	GRAND TOTAL	1,343 660	11,223 4,665	25,659	38,426 245	1,131	2,994 2,265	42,551 2,510	5,518 0 0	5,206 0 0	· /
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^{* (}As re-adjusted on 1st February 1916 as per Government Order, Revenue Department, No. 11396 of 27th October 1916.)

FORM No. 10.—Statement of Forest Areas Surveyed and

		,	1	<u>-</u> _						•	AR	EAS S	URVEYED	AND UNI	DER SU	URVE
•	Sp:	ECIAL E	SURVEYS-	-Maps Armen	on 4" scalb of c of Forest Sc	over, by S devey Bran	SURVEY OH.	02		Or	DINABY	, INCLU	DED IN DIST	PRICT SURV	RYS.	•
Division.	-	V	Vith Inte	rior Det	ails.	Bounda	ry Surv	cys.		With	Inter	ior Det	ails.	Boundar	ry Surv	оун.
	of Gr	letails owing ock.	With detni	le of	Total cost.	Previous.	Of the	Total Cost.	of G: Sto	ith details f Growing Stock.		hout ils of wing ook.	Total Cost.	Previous.	Of the	Tota Cost
•	Pre- vious.	Of the year.	Pre-	Of the year.		 	year.		Pre-	Of the year.	Pre- vious.	Of the year.	ì .			
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Panch Mahals		•••		-311	*****	*****	•••	***	***	•••	***	•••	*****	***	•••	
Surat			···	***	****** H	******	***	***	• ••	•••	•••	***	*11***	***	***	
North Thana		194	•••	***	*****	411774	"	•••	***	***	•4•		*****	***	***	***
Central Thána	•••	***	***	•••	*****	******	"	***	***	***	***	· •••		***	""	***
South Thana	•••	٠	•••	***	911 000		"	•••	***	•••	***	***	*****	••• ,	•••	***
South Nasik		•••	•••	***	-a19 ⁰⁸⁸ ,	400.150		•••		•••	***	. ***	414124	110		,
North Násik	•••		} •••	***	****	451***	•••	***,	100	***	•••	***	***114	* ***		***
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Total, Northern Circle					,	*** ***			***		'			ĺ	ļ	•••
CENTRAL CINCLE. Reserved Forest.			·] 		-	
East Khándesb	***	***	229	***	•••••	····· ,		***	***]]	497	10	Not known		27	
West Khandesh		•••	676	·;•		*****		** 1	***	•••	1	•••	A	98	•••	
North Khandesh		***	645	***		*****]	•••	*::		•••	***	94444	***		•••
Poona .		•••	525	•••	199900	 •••••	•••	•••	***	\ . ··· \	•••		******			105
Sátára		•••	530	'	·,	·····		***		,	***	•••				***
Kolaba	.	***	450	. •••	******	*****	•••	•••	٠	 	`		•••••			
Nagar & Sholapur	.]	•••	787		440404	414444	•••	•••	***				******			•••
Total	•	•••	3,702	•••	*****			•••	•••	***	498	10	******	. 08	27	***
Protected Forest.	·[-	ļ .								<u> </u>	<u> </u>		 		
Bátára 🐽 🐽	.}	•••	1		******	*****		***	ì.,				*****			
Kolába	,		74		*****		, .	***	96+	 		***				
Poons			11	'	•••••			***	*]	}		100444			***
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Total, Central Circle			8,878								499	10		96	27	
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Kanars, Northern.					******	*****		•••	, 148	 	,		*****	446		
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Kándra, Southern	√		,	•••		*****	,,,	***		I			010:00	114		
" Western. "		499			*****	j .		•••		} [***	469	. 414169	•••		
Belgaum	.}		***	}				***	•••)			### #P\$	410		
Dhárwár—Bijápur	.				*****	******		***	***]	***		*****	***	[
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Ratnágiri Total, Southern	···								***		***		*****	••• 7.	<u></u>	
Circle SIND CIRCLE.			 		*10.11								99-414	****		
Sukkur	•••			***	,****			•••	144				*****	•	.]	
Larkana		•••	•••	***	812546	*****		***					i			ŀ
Hyderabad				•••	******		Ì]]	***		******		""	} "
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Total, Sind Circle	,,,,						<u> </u>			- " -		***	*****			
GRAND TOTAL	1	·	8,878		` 									111		
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APPENDICES.

FORM No. 11.—Progress made in Working Plans, 1915-1916.

											•			
		Arba un Vori	TORE SANG	TIONED		Arsa Wor	not un ung Pu	DER.	No. 7	, Ri	Visions	•	g Plans	
	o tuc		uring	At clos year	•	ration,	Plans no prepara	ition.	in Form No 8 5, 7, 8 and	1	end of	sanotioned	Working	Remarka.
Division,	commencement ar.	Added during year.	Peducted d	Actual arca.	Percentago of total forest area (as shown in column 10).	Plans under preparation.	Required at present.	Not required at present.	Total forest ares in (Total of columns 5,	e or required.	In progress at year.	Reviend Plans sa during year.	Expenditure on during the year,	
·	At co	PΦ	- A B	Act	Tot tot	Pla	Red		Tot	Due	d g	-Re	 	·
1 , :	Ž	3	6	б	6	7	8	9	10	11.	13	13	14	15
	Eq. m.	Sq. m.	Sq. m,	8q. m	Percent.		Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	
Panch Mahálu	. 332	411		832	100		***	•••	932	333	114	***) .	
Surat	60	,,,		69	100			***	69	,	-	**		
North Thána	335	•••	***	835	100		*40		235	835	.335		2,393 12 5	;
Central Thána	369			g69	99	***		4	873	369	369			
South Thans	331			. 331	97		1	9	841	331	331	} })	
North Násik	467			467	65		470	236	703	467	•••		57 0 0	
South Násik	381	, 184		381.	85	.**	240	69	450	381	*41	104	112 3 0	
Total	2,284	***		2,284	88	910	1	318	2,603	2,215	1,149	Nag *	2,562 15 5	
Surat (Dánge)	158		***	159	24	230	ased.	286	655				1,752 9 7	
Grand Total ,	2,442	,,,,		2,443	75	230	2	584	3,258	2,215	1,149	41*	4,315 9 0	This is exclusive of 57% square miles of area in charge of the Revenue Department shown in Form No. 7.

FORM No. 11—Progress made in Working Plans, 1315-1316—continued.

	ARSA UNDER SANCTIC WORKING PLANS		nctioned Services		A RE	A ROT U	NDER	No. 7 d U).	ļ. ,	RRVINIO		l g		
Division.	ent of the	Added during the year.	during the	At elo yea		Plans under preparation.	Plans n	ot under	£	-	Jo p s	martioned	Working	N
	commencement ar.	during	1	Ares.	tage orest ar illown n 10).	nder pre	-	Not required prescut.	Total forest ares (Total of col. 12.3	Due or required.	100	Pare Star	tare on the year,	Remarks.
	At con year.	A dued	Deducted year.	Actual area	Per o tage total forest (as shown column 10).	Plans n	Require present.	Not re prefer	Total f	Due or 1	In progress year.	Revised	Expenditure dating the ye	
1	2	3	4	5	6	7	8	9	10	11	13	13	14	18
CENTRAL CIRCLE.	Sq. m.	Sq. m.	8q. m.	Sq. m.	Sq. m.	Sq. m.	5q. m.	Sq. m.	Sq. m	8g. m.	Bq. m.	8q. m.	Rs. a. p.	
East Khändesh , •••	749		•••	749	98-2	**1		15	764		*400	14	•	*Chopda, Yawal, Raver, W. I
West Khándesh	180			180	33.2		151	205	596	50	<u></u>	***		tTranspurea Babul Workin Plan e square miles.
North Khandesh	564	٠	•	664	64.9		304	•••	808	4:3			*****	
Poons ***	292	*40	t4	328	57-2	***	13	233	670	203	169		******	*New W. P. of Mulet 38 Do. Sub-Ohnt 3
`						-					 			†Pasture handed over to Resenue Department 87 Disferested area
Sátára	- 64	***	, 	64	12.3	197 2		254.0	516		•••			1 Wg. Plan of Sathra, Wal. ofc.
Kolába	416-2		***	416-2	· 98·8		•••	46	421	***	***	•••	171100	Honororia Rs. 148-6-2 paid for the preparation of castrin Working Plan 2 square miles.
Total, Central Circle	2,265-2	- 40	4	2,301.2	62-4	97-2	467	872.6	(6)3,738	745	630	•		This is exclusive of 1.698 squar miles of area in charge of th
		}				Į	1				•	1		Form No. 7.
SOUTHERN CIRCLE.	ļ. 			Ì				})			\		
Kánara, Northern	350	****	•••	350	82.6	42	***	82	421	174	61	(a) 7	******	(a) Plan for Block VII a Special allowance at Re. 140 per men some-beta its \$10-wangrante to the Divisional Forest Officer Working Plan, for sompilis
Kanara, Eastern	531			· 831	61.4	78		235	614		167		5,805 0 (this Plan.
Kánars, Central	221		 	224	28.7	1	104	4:0	779		26	(8) 2	5,805 0	(b) Block XIX of Ankola an kumta included in Chandawa Piau but administered b Contral Division.
Kanara, Southern	61	(¢)10		71	10.0	.87	•••	540	708	***	414			(e) New plau for Chaudaway,
Kánara, Western	255	•••	 .	258	30.8		-	679	8:7		•••		*****	
Belgaum	182	. ***	•••	182	26.7	453	,,,,,	45	680	168	169	(d) 14	12 0	(d) Nagaryali High Forest Pias —Rs. 2.66d honorarium was granted to the Division at Fores officer, Delgaum, for the com- pitation of this revised plan.
Dhérwar, Bijapur	544	24 h				15	276	208	497		·			,
Ratnágíri	•••	194		•••				19	19		~			İ
Total, Southern Circle.	(e)1,406	10	***	1,416	30.9	689	380	2,106	4,598	842	442	53	11,622 0 0	shrava in common 2 last year and against Karaya Northern and
	Sq.		Sq.	Sq.			eq.	gq.	84. m. ac,	Sq, m. sc.	8q.	Bq. m. sc.	1	Enstern Divisions.
SIND CIRCLE.			*0 567	419 517	92-23	!	12 332	91 571	456 115	434 164			3,00740	*[Haforested
Sukkur	420 464			415 047		***	18 277							†Area of protected forcet. Area received under section 18 of the 1r dian Forcet Act. Last year's
7 6 1 6 a a	000 170			202 176	87 10	•••	4 41	25 2 15	231 485	231 475			*****	
Lárkóna ··· Hyderabad ···	202 178 225 142	***	***	202 170	9.11	***	7 425		244 816		235 66 3	***	5,593 0 0	
Jerruck	228 243	. 204	*2 602	225 281	06.2	***	•	3 219	229 600		[228 213	******	
Total, Sind Circle	1,076 385	•••	3 519	1, 72 500	92-47		25 106		1,167,0÷6				5,-93 O L	
GRAND TOTAL	7,169 513	50	7 519	7,231 634	59.1	1,013-2	114 106	3,624 476	12,714 96	3,960 619	2,360 553	266 243	21,529 9 0	*This is exclusive of areas in Morthern and Central Circles in charge of the Revenus De- variment shown in Form No. 1.

	New Works undertaken during the year.												
Division.	Baildings,		Road	Other Works.									
Division.	Description of Building.	Expenditure incurred.	Description of Road or Path.	Length of Road or Path,	Expenditure	Expenditure incurred.	Total expended on New Works.						
1	2	3	4.5 4	5	6	7	8						
NORTHERN CIECLE.		Rs.		Miles.	Rs. a. p.	Rs. a. p.	Bs. s. I						
Panch Mahála •••	350())	44044	***	*	101100	58 0 0	58 0						
•	Total	·											
Surat {	Completion of Depôt at Fort Sorgad Additional Ward to Ahwa Hospital	1,000 500	Cart roads	. 15	10,500 0 0	58 0 0 480 0 0	58 0 12,980 0.						
	Halt shed at Godad	500				-							
	Total	2,000		15	10,500 0 0	480 0 0	12,980 0						
	Houses for Forest Subordinates	85	00000	1995 1995	120100	*****	: 35 O O						
Centra Thána	******	*****	•••••	*****		******	.,						
South Thana	Houses for Forest Subordinates	2,158	••	\$48***	******	Pag544	2,158 0						
South Násik	******	******	Cart roads	******	507 0 0	*****	507 0						
North Násik	Total, Northern Circle	4,193	994049	15	11,007 0 G	******* E20 0 0	160100 A						
		7,200			11,007 0 0	938, 0, 0	15,738 0						
CENTRAL CIRCLE.													
East Khandesh	Nil	******	Nil	•••.	321148	Poblas	*********						
		,											
		·			-								
(1) (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	,												
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					1	l · ·	l						

	R _{EP}	LIES BLECUTED DUBING	TES TREE,		•		\
Buildings.		Road	is and Paths.		Other Works	· ·	•
Description of Building.	Expenditure incurred.	Description of Road or Path.	Length Expenditure incurred.		Expenditure incurred.	Total expended for Repairs.	Remarks,
9	· 10	11	12	13	11	15	16
Divisional Forest Officer's bung alow. Houses for Forest Subordinates	Rs. 87	Cart tracks	Miles.	Rs. s. p.	Rs. a. p.	Re. s. p. 457 0 0	•
	282		4	15 0 O	160 0 0	457 O 0	
Additions and repairs to:— Excise Inspectors' Bungalow, Rangers quarters, Police quarters, Police Line and Rest House.	5,139	Cart roads	127	5,055 0 0	378 0 o	10,573 0 (
	5,139	<u> </u>	127	5,055 0 0	878 O O	10,572 0 0	
Houses for Forest Subordinates	. 576	Cart tracks	12	298 0 0	******	873 O O	
Do. do	302	Do	***	1,197 0 0	20 0 0	1,519 0 0	
Do. do	80	Do	***	48 0 0	80 0 0	128 0 0	
Do. do. •••	187	Do	8	297 0 0	•••••	484 0 0	Plus Rs. 1,100 paid to the Public Works Department
Do. do		••••	***			500	Public Works Department as contribution for the maintenance of Goldari
D0.	6,570		151	6,910 0 0	588 O O	14,068 0 C	Boad.
					, <u></u> -		
Repairs to Forest Guards' hut and quarters in the following Ranges:—		Repairs to roads and paths in the following Ranges.		•	•		
Rs.	•	Ra.					
Chálisgaon 58	·	Chopda 406	47	Ì	} ,		
Chopda 13	•	Yáwal . 277	83	ļ	j		·
Jamner 23		Ráver 538	14				
Ráver 44 Yáwal 108		· 		1,221	}		
	246		•				
Repairs to Depots in the following Ranges:—		٠	l		,		•
Rs.	-		Į.	:			•
Chálisgaon 10	.•		•	. •			
Chopda 120	•		į				
Yáwal 91		•				·	,
Ráver ··· ··· ··· 128	. 849			ļ		1	
	-					}	
				1.001 6 0	·	14,06+ O C	
· ·	595	(.)	94	1,221 0 0	001 174	. 4,000	

		NEW WOR	KE UNDERTAKEN DUBING	· ·			
ivision.	Buildings-	·	Road	Other Works.	.		
, ,	Description of Building.	Expenditure incurred.	Description of Road or Path.	Length of Road or Path.	Expenditure · incurred.	Expenditure incurred.	Total expended on New Works.
1	2	3	4	5	. 6	7	8
CENTRAL CIRCLE—contd.		Rs.		Miles.	Rs.	Rs.	Rs.
	Building at Harpada completed	218	Nawapur Depôt road completed 41 furlongs.		625		
West Khandesh	Do. at Narayanpur completed	200	† Turiongo				; ;
	Well at Chinchpada			*****	; •••± 0	150	r :
l l	Well at Nawspur	:		*****	*****	25	
· ()							
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						<u> </u>	· · · · · · · · · · · · · · · · · · ·
	Total	418		344144	625	175	1,218
North Khandesh,	Forest Guards' quarters completed in Taloda range.	326	Continuation of Hisala-Bhoit road in Shirpur East Range—	1	792		
			1		778		,
			Continuation of Wasardi-Bhurki road in Shirpur West Bange—				`.
		}	11 620 14150		,	, 	
1							
	,			,		. ,	
,			(·			1	
		•			· ·	'	
		,		-			
					•		
		·	,	,			<i>:</i>
		·	_	<u> </u>			

·.	REPAIR	E EXECUTED DURING 1	HE TEAR,	•		\ \frac{1}{2}	
Buildings.		. Roads	and Pathe.		Other Works.	Total	Rômarks.
Description of Building.	Expenditure incurred.	Description of Boad or Path.	Length repaired.	Expenditure incurred.	Exponditure incurred,	expended for lispairs.	
9	10	. 11	13	18	14	15	16
	Rs.		Miles.	Re.	Rs.	Ra,	
Repairs to Guards' posts and huts—		Repairs to a Kalambari	1	104	••••	******	·
Rs. 11		Repairs to a Borzar Charan- mal road.	2	. 69	*****	,	
Narayaupur Nanchol & 193 Co.				}			
Hutti 69 Borchak 20 Umarpata 52							
Jambhore 32	977		 	}			
Repairs to a Depôts at—	40				•		
Chinchpada ••• 40	40		}				
							·
	417	-		178		590	
Akrani Range—Repairs to huts for Government bulls.	5	Repairs to foot paths to th Akrani Range.	e	231	, , , , , , , , , , , , , , , , , , ,	******	,
Akrani Bange—Repairs to Tora- mal bungalow. Forest Guards' Talátis' and Bange Forest Officer's quarter in the following Banges.	9	Do. from Ranipur t Kalpani and Ujldd t Malgaon i	16 0	92	\$00000	400000	
Rs. Akrani 41	,	Shahada Bange Repairs to Kothar Chanseli roa in the Talod	. 5	401	******	366700	
Shirpur, East 111 Do. West 156 Taloda 242		Range.		}			٠,
Repairs to Depôts in the following Ranges) ·						
Shahada 26 Shirpur, East 26 Do. West 26 Taloda 20		•					
	655	-	109	724		1,379	

		Non Wes	ES UNDERTAKEN DURING	THE YEAR.	•	· · · · · · · · · · · · · · · · · · ·	<u> </u>
		ANW WOR	<u> </u>		•		- 4
	Buildings,		Ron	ds and Paths.		·Other Works.	Total expend-
Division	Description of Building.	Expenditure incurred.	Description of Road or Path.	Length of Road or Path.	Expenditure incurred.	Expenditure incurred.	Total expended on New Works.
1 7	2	3	4	5	6	7	8
CENTRAL. CIRCLE—contd.		Rs.		Miles.	Rs.	Rs.	Re.
Poona	******	*****	Louavla Range— Thakurwadi	1	300		*40***
	•	. :	bridle path.			• • • • • • • • • • • • • • • • • • •	
			Thakurwadi Cart- track.		112	******	*******
			Valwande bridie path.	eee	60	******	**:***
					, ,		
		· .				! 	
		}					
		,			.~		
	. , .			 •	٠ .		
							ļ
				. ,			
						,	
	Total			1	472		479
. *	>		-		312	, , , , , , , , , , , , , , , , , , , ,	472
	Construction of forest guards' po	st 850	Alignment of the				:
New -	at Patan.		Alignment of the projection Koin Valley road.	ne 12	198	eesting.	100000
Sátára	Payment to the contractor of the Petland Forest post over the sanction ed amount to meet his loss,	ne 100			378	127888	
, i	ed amount to meet his loss,		Circle Inspecto	ie Or			
			lent by th Revenue Depart ment.	i.	. '		٠.
·							
-						· · · · · ·	
	Total .	. 950		*****	576	14014	1,526
			-				-
Kolába	Nil		Nil	******	*****	******	
•		•	•		ļ. ,		
]	***
	•						
•	.		-			1	
-	Total .	******		*****	104749	******	
	Total, Central Circle	1,694					į.
		,004	l ·	18	8,243	175	5,112

·		EXECUTED DURING T	CR IEAR.		<u>. </u>	<u> </u>	
* Buildings.		Ronde	and Paths.		Other Works.		Remarks.
Description of Building.	Expenditure incurred.	Description of Roads or Path.	Length repaired.	Expenditare incurred.	Expenditure incurred.	Total expended for linpairs	•
9	10	11	12	18	14	15	
10	Rs.	,	Miles.	Rs.	Rs.	Rs.	
epairs to bungalows in the following Ranges:—		Repairs to roads and bridle paths in the following					•
Vite bungalow in Akola Range. Bhimashankar bungalow in Ambegaon Range.	95 105	Ranges- Akola Range- Mchanduri	2	81		***	
Ambavne bungalow in Mulshi Range Hivre bungalow in Junuar	7 20	Sharan Khel. Ambegaon Ran- ge-Bhimashan	•••	10	•••••	eas-66	
Range Repairs to Forest Guards' posts in the following Ranges:—		kar bridle path. Khed Range— Bhimashan k a i bridle path.	. 9	230	,		•
Haweli 3 Junnar 5 Lonawia 10 Mawal 20 Pawal 25		Lonawia Range- Kusur Shive. Lonawia Range Thoran Valw ande Panglote. Lonawia Range-	10	.230	*****	888-00	
Repairs to Depôts at Taleghar in Ambegaon Range.	- 63 8	Jambioli bridl path. Mawal Range- Bhimashankan Vandra, Lone	16	275	100.00	400.50	
		wla, Bhimashn kar, brid paths. Rajur Range- Shirpunje Bu- ruk to Khu	le d-	42		*****	
	:	and Talegaon Ambit paths.	to	_		_	
	298		42	88		1,182	
Repairs to existing building a under:—	•	Repairs to alreate constructe portions of t	e di				
Jáwli 33 Mahábleshwar 90 Pátan 126 Sátára 21	3 3 1	followin roads:— Vang Valley a	g nd 38	1,94	7	·	
Deepening of wells as under: Karad and Patan	_ 309	roads.		*****	12	4	-
	305	,	. 38	1,94	7 . 12	2,376	-
Repairs to Forest posts such whitewashing, turning tile	as 326	Diwanmal roand and Band Tiv	ad rre	8	5		
CHA		road, Nagothne a Dapoli Range	in nd :s.				
	. 320	5		8	5	411	
		- ,	293	5,03	4 12	4 7,754	

7.		**** ITV\$	ES UNDERFAREN DUZIE				
Division, ' •	Buildings.		Re	ads and Paths.		Other Works.	
	Description of Building.	Expenditure incurred.	Description of Road ex Path.	Length of Road or Path.	Expenditure incurred,	Expenditure incurred.	Tgtal Expended on New Works.
1	2	8	4	5	. 6	7	8
SOUTHERN CIRCLE.	• .	Rs.	· · · · · · · · · · · · · · · · · · ·	Miles.	Rs.	Rs.	Rs.
Kánara, Northern	Houses for Subordinate Establishment .	120	Cycle paths	. 13	130	191100	6401-0
			. •		:	,	
	Total	120		13	130		250
Kánara, Eastern	Houses for Subordinate Establishment .	579 ,	Cycle paths	7 14	507 32	119	**************************************
. •	Total	579	·	21	539	119	1,237
Kanara Central (New Division).	Head-quarter houses	2, 450	******	***	740140	******	*****
	Total •••	2,450		******	•••••	******	2,450
Zánara, Southern	Houses for Subordinate Establishment.	582	Other works	. 5	1,819	110	9690ds
	Total	582	•	5	1,819	. 110	2,511
Kánara, Western	Rest-houses	748	Cart roads	6	8,748		4api46
	Houses for Subordinate Establishment	546	1 011	1.5 5 1. 104100	71	29	500.00 600.00
	Total	1,294		. 11	3,817	29	5,140
Belgaum	Head-quarter houses Rest-houses Houses for Subordinate Establishment	1,638 5,125 300		rt 32	. 6,253	135	
	Total	7,063	-	32	6,541	135	13,739
Dhárwár-Bijápur,	Houses for Subordinate Establishment	851	tenat	600100	******	. 401209	144100
	Total	351		******	******		351
Ratnágiri	••	*****	******	•••••	101 108	***************************************	
•	Total, Southern Circle	12,439		82	12,846	398	25,678

	Rap	TER EXECUTED DURING	THE YEAR.				,
Buildings.		Roads	and Paths.		Other Works.		"Romarke,
Description of Building.	Expenditure incurred.	Description of Road or Path.	Length repaired.	Expenditure incurred.	Erpenditure incurreds	Total expended for repairs.	• • •
9	10	11	12	18	14	15	16
Head-quarter houses	Rs.	Cart reads	Miles.	Rs. 8,813	Rs.	Ra	The following have been
		Care reads		03013	******		excluded:— (a) Contribution for repairs of Local Board Radio
Hest-houses Houses for Subordinate Establishment.	130 704	Other works	•=•	*****	278	•••••	Rs. 5,000, (5) Rant of talephone line Rs. 400,
,	990		70	8,813	278	10,081	(o) Pay, etc., of the Executive Engineer or
Head-quarter houses and houses for Subordinate Establishment.	708	Cart roads	100	Б,977 •••••	474	**************************************	Special duty Rs. 2,733.
	708		100	5,977	474	7,159]
Head-quarter house ••• •••	150	Cart roads Other works	6	451	228	00 40 db	Exclusive of the pay of bunga- low Peons Rs. 69-1-7.
•	150		6	451	228	824	
		·			228		•
Head-quarter houses and houses for Subordinate Establishment.	469	Cart roads Other works		248	45	10000	
•	469	ļ	. 8	243	45	757	
Head-quarter bouses and houses for Subordinate Establishment.	678	Cart roads	•••	684	*****	400-110	Items excluded:— (a) Contribution for repairs of Local Board Road
		Other works		*****	154	•••	Rs. 5,000, (b) Pay of temporary Establishment on Roads Rs. 267.
	. 678			684	. 154	1,516	(o) Pay of temporary
` · .							Establishment on building Rs 886.
Head-quarter houses Rest-houses Houses for Subordinate Establishment.	156 390 854	Cart roads Other works	66	9,398	32	******	Rs. 41 spent on purchase and repairs of tools have been excluded.
	900	•	66	9,398	82	10,330	•
Houses for Subordinate Establish- ment.	222	Cart road Other works	2	1,204	14	•••••	
•							
•	222			1,204	14	1,440	
Houses for Subordinate Establishment.	10	******		*****	426 444	10	
	4,127		252	26,770	1,220	82,117	

н 1495—28

	1	Nev	Works undertaken d	URING THE YEAR.		· · · · · · · · · · · · · · · · · · ·	-
	Buildings,	· · ·		eds and Paths.		Other Works.	· · ·
Division.	Description of Building.	Expenditure incurred.	Description of Road or Path.	Length of Road or Path,	Expenditure incurred.	Expenditure incurred.	Total expended on New Works.
1"	2	3	4	5	6	7	8
SIND CIRCLE.		Rs. s. p.		Miles.	Rs.	Rs. s. p.	Rs. a. p.
Sukkur	Purchase of land for the Range Forest Officer's office and quarters at Rohri.	204 3 0	***************************************	_ +41141	##t#e#	******	420 13 0
	Construction of pacea brick floor to the Bauger's quarters at Mirpur.	192 0 0					
	Other petty works	24 10 O				}	
•							
	Total	420 13 0			500.00	004.44	420 13 0
	•			·		-	
Lárkána	Construction of single house at Gajidero	182 0 0	Cutting of roads and in Sharifpur	31	42	63 0 0	448 6 0
•	Purchase of laud for Range Forest Officer's office and quarters at Kamaldero		Forest. Cutting of compart- ment lines in	5	100		
	Purchase of kacha bricks and sawing of timber for Bakhri house.	76 6 0	Mithiani forest. Cutting of reads and paths in Soi forest.	4	40		•
			Cutting of roads and paths in Bagi forest,	4	40		
•	Total	458 6 0		161	222	63 0 0	
•			•		•		743 6 0
Hyderabad	Nil	1 8 0140	Nil	+ #e Was	ani fris	444406	******
				•			
•						,	
• .	. Total						
	10tal •••	******	,	******	171,149	******	***,
erruck			,				
			*******	beates	*49***	74 12 2	74 12 2
			•			. "	
	Total,			•••••	*******	74 12 2	74 12 2
	Total, Sind Circle	879 8 0	ŀ	161	222		
	Grand Total 1	9.205 2 0					1,238 15 2
	55 c 2	-	<u> </u>	1311	27,318	1,243 12 2 4	7,766 15 2

	·	REPAIRS EXECUTED	Daried 3me 1	TRÁB.		•	,
Buildings.		Ros	ds and Paths.	•	Other Works.		Remarks.
Description of Building.	Expenditure incurred.	Description of Road or Path.	Length repaired.	Expenditure incurred.	Expenditure incurred,	Total expended for Repairs.	Remarks.
9	30	11	. 12	13	14	15	16
Repairs to Inspection bungalow and houses for Forest Subordi- nates.	Rs, a. p.		Miles.	Ra.	Rs. s. p.	Rs. s. p.	
			,				
•	863 8 9	•		*******	404 8 0	1,208 0 9	
Repairs to houses for Forest Sub- ordinates.	583 7 10	•	. 445	geg1##	164 8 2	748 0 0	
	,		•	·			
		1					
	583 7 10	•		400000	164 8 2	748 0 0	
Repairs to Inspection bungalow and houses for Forest Sub- ordinates.	576 4 5	- *a+++++		******	506 0 5	1,081 4 10	
O(Canada			·				
	575 4 5			Baq+s0	506 0 5	1,081 4 10	
tepairs to houses for Forest Sub- ordinates.	294 1 5	******		*****	1,250 15 11	1,545 1 4	
Grdinales.							
	294 1 5			·······	1,250 15 11	1,545 1 4	•
	2,316 6 5			900700	2,326 0 6	4,642 6 11	
•	15,609 6 5	· .	716	38,714	4,258 0 6	58,581 6 11	

APPENDICES.

FORM No. 13.—Prosecutions for breaches of Forest Rules during 1915-1916.

	•			New Cas	es of th	H YEAR.	· [,	Disposed	OF DU	RING TH	e Yrai	.		
-	•	Cases	<u> </u>	Unau- thorized	Grazing				Conv	ictions.	Acq	nittals.	T	otal	Cases pend-	withdrawn,
Forest D	vivision.	pending from 1913- 1915,	Injury	felling or appro- priation	without permission or in tracts in which grazing is prohibited.	Other noffences.	Total new cases of the year.	Total cases.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	ing at close of year.	Cases with
. 1		- 2	8	4	5	6	7	8,	9	,10	11	12	13	14	15	16
NOBTHERN	N CIRCLE.										· ·					
Panch Maháls	{(A) (B) (C)	117 	5 7 43	2 671 275	10 853 1	 76 6	17 1,507 325	22 1,624 325	17 1,491 	32 3,151		2	18 1,491 325	34 3,151	133 	***
	Total •••	122	55	848	864	82	1,849	1,971	1,508	3,183	1	2	1,834	3,185	137	
Surat	{(A) (B) (C)	9	4 4	19 1	 20	 8 2	6 51 7	60 7	54 	108	1 	. 1	54 7	108	6	•••
	Total •••	10		22	20	10	64	<u> </u>	56	110	1	1	64	111	10	
North Thans	(A) (B) (C)	57 	1 4 57	13 142 135	197	81 2	16 374 194	17 431 194	356 	708	***	***	356 194	708	7 75	•
	Total	58	62	290	198	34	584		366	725	2	20	560 17	725 60	82	•••
Central Than	E (A) (B) (C)	(a) 8 1	6 1 53	2 209 82	235	31 1	16 476 136	477	15 477 	1,004			477 136	1,004	2	***
	Total	1		293	242	83	· 628	_	-		-	-	-	- 	2	•••
South Thána	{(A) (B) (O)	(b) 14 (b) 79	1 5 70	11 236 190	12 834 . 8	39	28 614 263	698	642		3	8	36 642 263	1,720	51 	***
	Total	98	76	437	-	43	_	_				-	_	- - <u>-</u> -	-	•••
North Násik	(A) (B) (C)	• •••	3 2 4 31	10 335 36	499	65	- 90	3 903	909	2,072			903 68	2,072	7	•••
	Total	<u> </u>	_	· 					┩	_	_		-	- -	7	•••
South Násik	{(A) (B) (C)		3 1 7 60	404	841			9 809	809			39	809 158	2,498	4	***
	Total		68	_		_	_					_	_	- 	-	-
	7 ···{(C) ···	<u> </u>		1,916 817	2,479	307	4,73	4 4,99	4.73	320 2 11,261		78	197 4,732 1,151	11,261		
Total, North	ern Circle .	29	370	2,790	2,535	331	L 6,02	6 6,31	9 4,85	11,581	10	73	6,020	13,654	299	•••
-	L CIRCLE.					<u> </u>										
East Khánd	$\operatorname{esh} \dots \begin{cases} (A) \\ (B) \\ (C) \end{cases}.$	<u> </u>	3 24	2 21	5 267	1 98	3 · 7 5 · 57 4 · 13	9 57	9 57			7	69 579 139	1,698	9	100 100 100
	Total .		3 29	36	7 28	119	2 79	3 79	6 64	4 1,858	3 4	7	787	1,865	9	•••
West Khán	desh {(A) {(B) {(C)		4	3 2 17 5	1 35%	7 12	3 2 7 54 1 12	7 54	7 54	7 1,230	 	***	18 547 126	7 1,230		100
(Total .	•	7 5	25	0 36	7 2	1 69	3 70	0 56	0 1,24	3		686	- 	-}	
North Khá	$\mathbf{ndesh} \cdot \begin{cases} (A) \\ (B) \end{cases}$	145 145 166		4 19	4 14	5 8	5 1 8 44 4 18		1 44	1 99		605	19 44 13	1 990) ++-	***
	Total		6 4	2 29	8 15						_		59	∸	<u> </u>	1 2

(a) 1 transferred from A to B and (b) 8 from B to A.
(A) Cases taken into Court.
(B) Cases compounded.
(C) Cases undetected.

FORM No. 13.—Prosecutions for breaches of Forest Rules during 1915-1916—continued.

			New Ca	SES OF T	IB YEAR.				Dispose	DOFU	UBING TE	16 YEA	3,		}
· · · · · ·	Cases pend-		Unau- thorized felling	Grazing without				Con	rictions,	Δeq	nittale:	T	otal.	Cases pend-	rawo.
Forest Division.	ing from 1913- 1915.	Injury to forest by fire.	or appro- priation of wood and minor forest produce.	permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	Total cases.	Cases.	Persons.	Casos.	Persons.	Cases.	Persons.	ing at close of year.	. 2
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	11
CENTRAL CIBCLE— (continued).					 : !	•					,				
Poona {\begin{aligned} (A) \cdots \\ (B) \cdots \\ (C) \cdots \end{aligned}	2	27 111	24 694 132	. 35 788 5	7 78 1	69 1,587 240	71 1,587 249	61 1,587	131 3,504	2	 	63 1,587 , 249	180 8,504	8	
Total	-2	141	850	828	86	1,905	1,907	1,648	8,635	2	8	1,890	3,613	В	
Sătăra {(A) (B) (C)	19	9 14 43	6 35 <u>4</u> 66	13 445	3 67 1	81 880 110	50 880 110	41 880	124 1,512		5 	44 880 110	129 1,512	5	
Total •••	19	66	426	458	71	1,021	1,040	921	1,636	3	5	1,034	1,641	6	
Kolába (A) (B) (C)	68	6 5 32	150 332 249	10 324 5	48 104 8	214 765 294	282 765 294	201 765	392 1,426	16	26	217 765 291	418 1,426	65 	
Total	68	43	731	339	160	1,273	1,341	966	1,818	16	26	1,276	1,844	65	
Total ((A) (B) (C)	105	30 64 282	235 1,960 727	84 2,326 20	79 449 19	428 4,799 1,048	533 4,799 1,048	400 4,799	878 10,360	25	46	425 4,799 1,018	924 10,360	105	
Total, Central Circle	105	376	2,922	2,430	. 547	6,275	6,380	5,199	11,238	25	46	6,272	11,284	105	
SOUTHERN CIRCLE. Kánara, Northern (A) (C)	4 63	9	7 115	2 182	10	. 18 321	22 881	13 285	21 686	3	2	15 255	ნაწ	7 99	::
((C) TotaQ	$-\frac{7}{74}$	156 179	27 149	184	10	. 188 522	190 596	298	710	2	2	163 453	712	37 143	
Konara Eastern (B)	1 31	3 14	3 231	1 80	22	7 847	8 878	4 · 375	45	4	4	8 375 159	43	2	
(C)	89	118	272	81	23	157 511	164 550		570	4	4	541	574	0	-
Kánara, Central (A) (New Division). (C)	9 73 9	1 10 156	4 247 6	13	88	5 358 162	14 431 171	321	24 623	4	ō	12 821 171	. 20 62 3	2 110	
Total	91	157	257	13	88	525	616		647	4	б	504	652	112	
Kánara, Southern (A) (B) (C)	48 348 4	* 3 11 74	20 1,008 72	8 52	1 119 1	27 . 1,190 147	75, 1,539 151	36 1,274	81 2,403	17	2 8	53 1,471 151	119 2,403	22 20/4	
Total	400	- 88	1,100	. 55	121	1,364	1,764	1,310	2,481	17	38	1,478	2,522	286	
Kanara, Western {(A) (B) (C)	. 5	2 3 131	6 238 23	2 41	13 2	10 295 156	15 296 156	296 	27 613	 	 	11 268 158	32 618	2	
Total	6	136	267	43	15	461	467	302	640		5	463	615		Z
Belgaum (A) (B) (C)	13 105 7	10 14 161	13 358 127	3 713 9	2 12 5	23 1,097 302	41 1,202 · 309	16 1,078 	46 2,035		7	19 1,07s 359		22 124	•••
Total	125	185	498	725	19	1,427	1,552	1,594	2,051	3	7	1,100	2,803	146	"

FORM No. 13.—Prosecutions for breaches of Forest Rules during 1915-1916—concluded.

	1		New Ca	SES OF TE	E YEAR.	· .		ľ	Dis	POBBD (DURING	· THE	L BAR,	_	
	Cases pend-		Ungu- thorized felling	Grazing without	• ,			Con	victions.	Acc	uittals.	· 1	Cotal.	Cases	Case
Forest Division.	ing from 1914- 1915.	Injury to forest	or appro-	permission or in tracts in which grazing is prohibited.	off on one	Total new case of the year.	Total cases.	Cases	Persons	Cases	Persons	Cases	Persons	pend- ing at close	with
.1	2	3	.4	5	6	7	8	9	10	11	12	13	14	15	16
SOUTHERN CIRCLI —(continued).	c ·							1	,						i i
Dhárwar Bijápur (A). (New combined (B). Division).) 61	••• <u>9</u> 83	+3 242 80	10 242 4	2 35	15 521 167	25 582 175	501	42 1,547	8	15	501 175	1,547	81	1
Total	79	85	325	256	37	703	782	522	1,589	3	15	700	1,604	81	1
Ratnágiri { (A) (B) (C)	1	1	16 3	***	· 8	1 19 4	2 22 4] 13	`3 28	Pag	•••	13 4	3 28	1 9	104
, Total ,	4	1	20		3	24	28	· 14	31		•••	18	31	jo	•••
Total (A) (B) (C)	91 685 42	28 68 880	57 2,455 876	21 1,323 13	5 302 9	111 4,148 1,278	202 4,833 1,320	4,149		38	. 76	143 4,149 1,277	8,460	56. 689 41	1 3 2
Total, Southern Circle	818	976	2,888	1,357	316	5,537	6,355	4,248	8,752	- 38	76	5,563	 -	786	6
SIND CIRCLE.								. ,				-		•	
Sakkur { (A) (B) (C)	•••	53	57 685 347		 	117 1,795 400	136 1,795 400	88 1,795	17 7 2,150	14	56`	102 1,795 400	2,150	34	***
Total	19	55	1,089	1,149	19	2,312	2,331	1,883	2,327	14	56	2,297	2,383	34	, •••
Larkana (A) (B) (C)		47	6 104 89	3 217 	1 14 	10 835 79	11 835 79	8 335		2	12	335 79	340	1 	
Total		47	142	220	15	424	425	843	358	. 2	12	424	- 370	1	
$\mathbf{Hyderabad} \qquad \dots \begin{cases} \begin{pmatrix} \mathbf{A} \\ (\mathbf{B}) \\ (\mathbf{C}) \end{pmatrix}$		7	14 216 4	1,122	2 8	16 1,346 11	23 1,346 11	, 1,346 		1	2	13 1,346 11	20 1,352	10	
Total	7	7	234	1,122	10	1,373	1,380	1,358	1,317	1	2	1,370	1,372	10	***
Jerruck { (A) (B) (C)	3	. 6 1 51	20 148 9	11 250	1,	37 400 60	*401 *401	27 3 95	52 470	2	 	29 395 60	55 470	91 6	2
Total .	4	58	177	261	1	497	501	422	522	2	3	484	525	15	2
Total {(A) {(B) (C)	30	8 1 158	97 1,153 392	53 2,699	22 23	180 3,876 550	210 3,877 550	135 3,871	265 4,312	19	73	154 3,871 550	338 4,312	54 6	2
Total, Sind Circle	·	167	1,642	2,752	45	4,608	4,637	4,006	4,577	, 19	78	4,575	4,650	60	2
GRAFD TOTAL (A) (B) (C) (C) (C)	42	86 165 1638	7 484 2,312	8,827 37	118 1,081 40	860 17,557 4,127	1,116 18,506 4,0,9	***	1,755 84,383	92	263	859 17,545 4,026	2,023 34,393	249 960 41	6 3 2
*Out of 40 A Cases of Indian Forest Act. One		1,889	10,242	9,074	1,239		23,691	- 1	36,148	92	268	22,430	36,416	1,250	. 11,

^{*}Out of 40 A Cases one was transferre! to B Cases as the order for prosecution was withdrawn and the case dealt with under Section 67 of the Indian Forest Act. One case was withdrawn as the offender died.

(A) Means cases taken to Court.

(B) , , , , , , Compounded and let off with warnings.

(C) , , , , Undetected.

FORM No. 14.—Area of Forest Tracis protected from fire during 1315-1316.

_		<u>, </u>						•	
•.	. Division.	Forest Ranges.	Year in which protection commenced.	Area protected during 1913-1914	Area attempted to be protected.	Fallures.	Area Betually protected.	• Coeta	Remarks.
	1	, 2	3	4	5	6	7	8	9 .
. •	NORTHERN CIRCLE.			Acres.	Acres.	Acres.	Acros.	Ra. a. p.	
7	Panch Maháls	Godhra Kalol Hálol	100	88,042 20,063	89,256 21,583	715 100	89,541 21,433	,	
	ranch Manais	Dohad Justod	Fe4 414 600	25,805 41,612 25,949	28,306 46,242 26,862	398 2,623 1,038	27,908 49,619 25,824	3,520 0 0	•
	· · · · · · · · · · · · · · · · · · ·	Total	***	201,471	212,199	4,874	207,825	8,520 0 0	
	iurat {	Dángs Mándvi	***	407,975 40,887	419,808 40,887	1,089 5	418,710 40,882	} 6,166 o o	
٠	· · ·	Bulsar-Chikhali 1	•••	2,810	2,810	***	2,810	3 0,200	`
	•	Total	***	451,672	463,505	1,094	462,411	6,160 0 0	
1	North Thána	Máhim Dáhánu Umbargaon	410 ***	71,861 78,842 56,356	76,440 79,484 58,225	1,775 1,713 452	74,665 77,771 57,773	8,216 0 0	·
		Total	***	207,059	214,149	8,940	210,209	8,216 0 0	
•	Central Thána }	Bassein Wáda Khardi Mokháda	**** **** ****	53,462 77,219 68,367 55,573	54,855 79,728 68,765 86,038	885 1,194 494 168	53,470 78,584 68,271 85,870	4,894 0 0	
;	•	Total		232,621	238,886	2,741	236,145	4,834 0 0	
•	South Thána ···	Salsette Kalyán Bhiwndi Shahapar Murbad	**** *** *** ***	14,264 31,139 8 ³ ,926 61,543 55,469	14,793 81,691 40,151 70,250 55,864	837 846 2,410 7,277 1,265	14,596 31,345 37,741 62,973 54,609	8,839 0 0	•
		Total		201,841	212,689	11,625	201,064	3,839 0 0	
	\	Málegaon		109,471 64,427	109,581 65,495	330 3,037	109,251 62,458]	•
1	North Násik	Baglan Chandwad	•••	120;004 21,800	120,029 21,805	4,997 556	115,032 21,249	59 0 0	
	Į	Yeola •••	***.	25,728	25,833	. 84	25,749)	•
	•	Total	··· ,	341,430	342,743	9,004	833,739	- 59 0 0	
	(Násik Igatpuri Sinnar	•••	40,722 58,053 81,522	40,890 53,630 81,607	. 816 752	40,074 52,878 81,607	1,325 0 0	
),	South Nasik	Dindori North Peint South Peint Kalwan	} 	51,838 107,159 106,719	107,267 107,049	8,567 96 77	50,177 107,171 108,972		J
		Total		\$91,012	394,177	6,298	288,879	1,325 0 0	
		Total, Northern Circle.	•••	2,026,606	2,078,318	83,576	2,039,772	23,019 0 0	

FORM No. 14.—Area of Forest Tracts protected from fire during 1915-1916—continued.

Division.	Forest Ranges.	Year in which protection commenced.	Area protected during 1914-1915.	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. a. p.	
CENTRAL CIRCLE.	1		•					
	Chálisgaon Chopda Edalabad Jalgaon Jámner Parola Ráver Yáwal	100	97,140 99,660 89,687 86,044 63,562 43,409 59,282 65,750	38,250 107,700 41,346 38,799 64,390 43,920 76,210 78,000	1,521 1,234 4,859 1,879 834 78 11,329 49,000	36,729 106,466 36,487 37,420 63,556 43,842 64,881 29,000	354 8 Q 1,100 8 0 199 8 0 118 12 0 469 2 0 822 4 0 6 12 9	Include Erandol Táluka. Po. Bhusawal Táluka. Miscellaneous charges.
`	Total	•••	444,534	488,615	70,234	418,381	3,071 6 9	
West Khandesh •••	Dhulia Sákri Pimpalner Nandurbár		75,334 121,380 60,541 57,828	75,818 180,606 63,558 61,378	1,692 11,792 671 3,049	74,156 168,814 62,887 58,329	4,507 0 0	Includes Sindkheda Táluka.
	Total		315,083	381,360	17,174	364,186	4,507 0 0	
North Khandesh	D 777		129,404 56,864 73,015		30,550 14,204 5,416 816 1,075	164,134 56,956, 78,165 } 195,250	2,156 0 0 1,190 0 0 1,328 0 0 1,000 0 0 2,167 0 0	
	Total .		451,865	555,766	61,261	494,505	7,841 0 0	-
Kolába	Pen Panvel Karjat Khálápur Nágothna Roha Mángaon Mahád Dápoli		27,407 29,812 27,172 32,120 21,740 35,110 39,151 26,271 25,731 2,121 1,088	29,964 27,572 32,520 21,879 35,226 39,281 26,290 25,877 2,122	76 13 36 270 283 8 62 16 69	27,413 29,951 27,536 32,250 21,596 35,218 39,219 26,274 25,808 2,122 1,107	201 0 0 259 0 0 192 0 0 474 0 0 86 0 0 395 0 0 450 0 0 366 0 0 114 0 0 150 0 0	
r e	Total .		267,723	269,327	833	268,494	2,739 0 0	-
Poona	Dhond Haveli Junnar Khed Lonávla Mával	}	66,822 38,704 12,835 25,870 38,819 34,289 46,884 26,093 10,576 65,059	38,942 10,993 26,610 89,117 35,493 47,158 26,549 10,089	262 231 2,231 81 808 {. 289 695 19 276 72	66,597 38,711 10,993 24,379 39,036 34,685 46,174 26,530 9,813 65,015	126 0 0 10 0 0	Poona District and part of Shrigouda Táluka of Ahmedragar District.
	Total .	•••.	365,951	366,897	4,964	301,933	160 0 0	

FORM No. 14.—Area of Forest Tracts protected from fire during 1915-1916—continued.

Division .	Forest Banges.	Year in which protection commenced,	Area protected during 1914-1915.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Romarks.
1	. 2	3	4	5	6	7	8	9
CENTRAL CIRCLE			Acres.	Acres.	Acres.	Acres.	Rs. s. p.	
Sátára	Jáyli Karád Mahábleshwar Pátan Sátára Shirála	000 100 000 000	58,320 33,541 43,121 74,717 50,458 36,191	58,523 33,541 43,222 75,048 50,681 36,211	2 23 57 171 548 41	58,521 83,518 43,165 74,877 50,133 36,170	150 0 0	Includes part of Tasgaon Taluka. Includes part of Khatao Taluka.
ι,	Wái Total	- -	33,234	33,264	1,005	33,101 829,485	150 0 0	
	Total, Central Circle	 -	329,582 2,174,738	2,392,455	155,471	2,236,984	18,468 6 9	
SOUTHERN CIRCLE.			-					 -
Kánara, Northern	Haliyal Sambrani Kulgi Dandeli Virnoli Kalghatgi	39 ···	41,665 46,646 28,413 46,610 40,470 43,714	41,665 46,646 28,418 46,610 40,470 55,674	3,011 14,193 4,614 34,695 6,631 11,037	38,654 32,453 23,799 11,915 33,839 44,637	1,143 0 0 392 0 0 249 0 0 148 0 0 379 0 0 1,115 0 0	1
	Total		247,518	259,478	74,181	135,297	8,426 0 0	
	Yellápur Block 15 Do. 17 Unorganized forests Kirwatti Block 15	1897-98 1914-15 1888-89	135,989	89,378	2,057	87,321	228 0 0	
,	Do. 14	1894-95 3. 1902-03	.	87,769	9,684	78,075	1,601 0 0	
Kánara, Eastern	(Tambur) Bhartnalli Block 1 Do. 1 Do. 2 Unorganized area	1914-15 8. 1894-95 6. 1902-03 1. ,,	91,657	91,972	2,583	89,339	344 0 1	
. ·	Do. 2 Do. 1 Teak pole area	1902-03 1902-03 1909-10	113,228	114,305	30,639	84,166	2,064 0	
·	Bankapur Blocks		Ĭ	26,109	238	25,871	425 0	
	Total		431,531	410,023	45,201	364,822	4,662 Ö	0
Kánara Central	Ankola	1906-07 1888-89 1899-00	. 156,443	172,371	24,300		505 0	D '
			166,538	- 	_ 	157,992	889 0	0
Kanara, Southern	Honávar	1910-11 1900-01 1899-00	. 6,597	124,592	286	3 124,308	277 0	D i
•	Total		10,816		3,253	449,827		<u> </u>
Kánara, Western	Kadra Supa	1887-88	28,661 118,406	198,575 232,291	6,511 13,098	192,064 219,193	604 0 0 276 0 0 23 0 0	and Kumta Ran transferred Kanara, C. have been exclusion
			177,036	535,823	23,100	512,723	1,493 0	<u> </u>
Bolgaum ••• ••	Khánápur, Eastern Khánápur, Central Khánápur, Western	. 1910-11 ا ٠٠٠٠	45,535 75,742 96,785	47,278 77,560 2 97,707	12,047 9,007 278	7 85,231 7 68,553 8 97,432	1,578 0 1,592 0 767 0 851 0	o ing notices ing notices in fire protect have been cluded.
	Total		896,430	- - 	22,256	879,114	6,030 0	0

FORM No. 14.—Area of Forest Tracts protected from fire during 1915-1916—concluded.

Division.	Forest Banges.	Year in which . protection commenced.	Area protected during 1914-1915.	Area attempted to be protected.	Failures.	Area actually protected.	Cost	Remarks.
, 1	2	3	4	5	6	7	8	9
SOUTHERN CIRCLE—continued.		·	Acres.	Acres.	Acres.	Acres.	Rs. a. p.	*
Dhirwir-Bijipur (New Division)	Dhárwár and Gadag Hangal Kod Bágalkot Bádámi	 -	42,280 12,911 14,636 2,635 10,965	19,423 9,487 18,052 2,500 2,154 51,616	6,326 153 1,174 201 786	13,097 9,345 16,878 2,299 1,368	149 0 0. 56 0 0 112 0 0 130 0 0 81 0 0	Rs. 16 spent of Bank pur Range transferred to Kánar E. D., have been excluded.
	 	1889-90	474	476		476		
datnégiri	Khed Chiplún Sangameshvar Ratnágiri Bájápur	1892-93	6,435 788 3,101 277 322	6,435 798 3,101 277 322	1	6,435 798 3,100 277 322	10 0 0	
(Devgad Málvan Vengurla	39 *** 39 ***	11 625 9	11 625 9	•••	11 625 9	} 10 0 0	ı
	Total	•••	12,042	12,054	. 1	12,053	28 0 0	
	Total, Southern Circle.	•••	1,525,291	2,305,841	201,037	2,104,804	17,564 0 0	
SIND CIRCLE.	•	Not known	44,377 31,094 58,288 30,540 40,020 27,735 23,254	43,806 30,685 58,103 30,538 42,527 28,199 23,255 34,102	1,207 40 978 211 281 911 4	42,599 30,645 57,125 30,427 42,246 27,288 23,251 34,090		_
	Total		284,068	291,315	3,644	287,671		4 .
Larkána	Garhi Yásin Lárkána Radhan Sehwán Kandiáro	Not known	32,426 25,133 22,619 22,883 42,760	82,426 25,834 22,615 23,623 43,777	28 368 4 -617 230	32,398 25,466 22,611 23,006 43,547	**************************************	
	Total		145,815 	148,275	1,247	147,028		•
Hyderabad	Sakrand Hála Miáni Hyderabad Unerpur	Not	50,442 50,935 26,166 2,223 29,236	50,612 51,481 22,932 2,223 29,228	90 25 80 97	50,522 51,456 22,902 2,228 29,131	**************************************	
	Total		159,002	156,476	242	156,234	*****	î.a. ¥
Jerruck	Tatta Shahbandar Mulchand Katiar	1912- { 13 { Not known.	35,779 20,049 47,910 43,191	53,191 24,965 47,476 20,788	859 425 534	52,832 24,540 46,942 20,788	226 1 9 57 3 10 688 7 2	
	Total		146,929	146,420	1,318	145,102	971 12 9	
	Total, Sind Circle	•••	735,814	742,486	6,451	736,035	971 12 9	•
	•							•

FORM No. 15.

120				APP	ENDI	CES.					•	
**.	•	•	•		• •		,	•	For	M No.	: 15	Causes d
]	<u></u>		_ _	<u> </u>	<u>-</u>	·············		(C) Fn	res begi	INIKO:	INSIDE TH
•	Fire	(A) s_caused	}	(B) entering	<u> </u>	O1	ving to	carelessn	ess or ac	ccident.	<u>. </u>	<u>·</u>
	thr carele	cident or ough saness in	the fo	orests by ossing ior fire-	Byw	orkmen .	Bvv	illagers,		· 		
Division or Circle.		rning lines.		ices.	empl the fo pure	oyed in rests, by hasers, ors, etc.	travel pa thr	lers, etc., ssing ough forests.	By en	railwa y igines.		lightning or by -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.										· ·		·
Panch Maháls Surat North Thána Central do. South do. North Násik South Násik	6 4 5 4	18 24 167 62 3	8 3 4 10 17	582 370 688 1,615 1,434	1 , 3	 5 44 	12 6 7 2 4 6 33	366 364 132 210 141 228 2,882	2 1 2 1 2 	49 31 7 128		000 000 000 000 000
Tetal	20	274	43	4,693	4	49	70	4,323	7	215		***
CENTRAL CIRCLE.	 	<u> </u> 									,	
East Khandesh West do	17	24,181	7	10,404	19	1,770 	${ rac{4}{2} } $	310	} ²	175		•••
North do. Kolába Poona Satára	2 3 1	3,050 49 2	5 30	29,015 1,190	7* 1 2	, 998 1 15	12§ 20 72	1,060 5,416 180 2,081	 6 2¶	114	•••	***
Total	23	27,282	42	40,609	29	2,784	135	9,182	10	359	•••	***
SOUTHERN CIRCLE.			 		· ·			 				
† Kánara, Northern Do. Eastern Do. Central (New Division). Do. Southern Do. Western Belgaum Dhárwár—Bijápur (New combined Division). Batuágiri	5 1 6	2,152 71	12 2 5 3 5 18 13	9,262 65 400 16 3,469 791 1,842	1 4 1 3	939	17 3 85 19 77 10 15	2,310 21 8,607 260 11,396 79 1,613	1 1 9 6	66 240 44 368 1 9 .6	4	53
Total	12	2,2 25	59	15,846	. 9	1,118	- 226	24,286	17	718	4	53
SIND CIRCLE.									<u> </u>		~	
Sukkur Larkána Hyderabad Jerruck	*** *** 8.	 80	4	849	8	275	13	::. 171	2 1 	12 10 	 	'
Total	3	. 80	4	349	8	275	13	171	. 3	22	•••	•••
Grand Total	58	29,861	148	61,497	50	4,226	444	37,962	37	1,814	4	б 3
									.		ļ	

Reserve	OR PIRE	TRACED	AREA.									
		' I	By Intenti	onal Firir	ng.		 `	•				
In ore	der to	In order out gan reduce	to turn ne or to cover.	Malici fire	iously ed.	Т	otal.	Causes T	Jųknown.	(A), (B)	otal and (C).	Remarks.
No. of, fires.	Area burnt in acres,	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Arca 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	28	24	25	-26
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 	7	388 388	 4 	975	19 6 9 15 9 6 43	1,390 . 364 163 705 813 228 3,270	21 2 40 38 63 21 7	3,462 706 3,028 1,604 10,624 7,161 591	47 12 62 60 76 37 68	4,874 1,094 8,940 2,741 11,625 9,004 5,298	Plus 3 o account of breaches o Rules i which is area with burnt. Include on account of breache of Rules is
•••		17	776	9	1,070	107	6,433	192	27,176	862	88,576	which naren wa burnt fluthoaren in charg
1	20	2 1 6 5 	2 1,600 2,275 133 4,010	7 10 27 	3,575 7,007 1,315 	27 12 35 27 109 23 233	1,959 6,545 15,696 295 3,634 123 28,252	21 45 2 17 6 43 134	33,690 10,629 13,500 489 138 882 59,328	72 57 44 47 146 66 432*	70,234 17,174 61,261 833 4,964 1,005	of contractors, and the contractors, and the contractors of the contractors of the contractors, and the contractors of the cont
25 5 1 32	7,750 724 5 .h 2,115	2 3 1	21 1 	115 21	3,425 21,202 20,254 5,624	44 18 107 22 110 138 42	11,065 4,223 29,836 261 13,751 20,556 7,605	124 110 55 63 21 28 29	53,854 38,761 4,765 2,976 5,880 907 1,448	180† 135 167 88 136 185 90‡	74,181 45,201 85,001 8,253 23,100 22,256 10,966	† Includes five medicals with under the Forest Act and the tree medicals with under the tree for
63	10,594	6	23	156 ———	50,505	481	87,297	430	108,591	982	218,959	Subord nates wh were re ponsiblior the same being
26	515 571	2	 130	2 2	50 J 91	6 1 51	577 10 1,238	45 46 7	2,718 1,237 242	55 47 7 54§	3,644 1,247 242 1,818	dealt with separately. Plus 4 on account of breaches of Rules in
28	1,086	2	130	4	141	58	1,825	. 98	4,197	163	6,451	which no area was burnt.
. 92	11,703	39	4,939	213	63,613	879	123,807	854.	199,292	1,939	414,457	
						-	i	j		.	·	

^{||} This is the total forest area burnt in the Southern Circle while the area shown in Form No. 14 represents the area burnt out of the area specially protected.

APPENDICES.

FORM No. 16.—Area closed and open to Grazing during 1915-1916.

						ABRA IN	r sQ	DARE MILES.				•	
Division.		Closed	to a	ll animals.		Closed of (camels,	nly	to browsers	Open to animals		Total for	rest	Remarks.
·• · · · ·	V	Vhole ye	ar.	Part of y	ear.	Whole ye	ar.	Part of year	. Whole ye	er.	area.		
1		2		3		/ 4.		5	6		7		8
NORTHERN CIRCLE.		Sq.m.	B.	Sq.m.	a,	Sq.m.	8.	Sq.m. a.	Sq.m.	8.	Sq.m.	a.	
Reserved Forest.													ĺ
Panch Maháls	•••	21	0	₽82	0	229	0		10000		332	0	Owing to th
Surat North Thána	•••	11 104	0	57 3	0	228	0	331 0	13	0	412 335	0	scanty rainfa and the scarc
North Thans Central do	•••	93	ŏ		U	276	ŏ	*****	40,740		369	ŏ	ty of fodder a
South do	•••	98	0			234	0	*****			332	0	cept the tw
North Nasik South do	***	85 100	0	19	0	311 495	0	*****	195	0	591	0	(one under ex ploitation an
South do Ahmedabad	•••	100	٧	13	U	430	0	******	22 19	o	630 19	0	that of pr vious year an
•	-		_	-,					·			<u> </u>	plantatio
Total, Reserved Forest	···_	512	0	155	0	1,773	0	331 0	249	0	3,020	0	area) wer thrown open i
PROTECTED FOREST.	1	•					Ì		·		. , , , -		the latter par of the year.
Surat	•••	*****		*****		****4		*****	325	0	325	.0	Ì
North Thána	•••			*****		*****		*****	146	0	146	0	
Central do South do	***	*****		******		4. 9	0		97 144	0	101	Ŏ	
South Násik	•	*****	•	*****			. U	******	88	ŏ	153 88	. 0	
Total, Protected Forest						13	0		800	0	818	0	
martal Martham Charles	-		_	1	_			201 0	· 	_	`	<u> </u>	
10tal, northern onche	`" -	512	_	155	0	·1,786	0	331 0	1,049		3,833	0	
CENTRAL CIRCLE.						ı		• *	, .				,
RESERVED FOREST.						_				`			
East Khándesh		209	0	58	0	497	0		36	0	900	^	
West do	•••	93	Ŏ		•	503	ŏ	******	177	ŏi	800 773	0	
North do. ' Poons	•	185	ø			733	0	*****	*****		868	ŏ	
Sátára		2 7 106	0	62	0	473 410	0	*****	448	ŏ	1,010	0	
Kolába		54	ŏ	1	0	366	0	104-08	195 29	0	711 - 450	0	
Ahmeduagar-Sholapur	•••	*****		ļ <u>.</u>	•	*****		*****	739	ŏ	739	ŏ	•
Total, Reserved Forest		624	0	121	0	2,982	<u> </u>	******	1,624	0	5,351	0	
PROTECTED FOREST.	-		—		,		_			_	0,001	_	
Poona			Ì	`	-		ا ر		1	- 1		.	١, ,
atara	•••	******		*****		11	0	*****	1	0.	11	0	
Kolába ••• •••	•••	*****		*****		20,000	ļ	*****	74	ŏ1	1 74	0.	
Total, Protected Forest	-			-	-		<u>~</u>			₁			
		*****		*****		11		*****	75	0	86	0	
*Total, Central Circle	••• _	624	0	121	0	2,993	0	*****	1,699	0	5,437	0	
SOUTHERN CIRCLE.						÷ .							
Znara, Northern		213	0			211	0						•
Do. Eastern		254	Ö	******		39Q	ŏ	******	******		424	Ŏ	
Do. Central (New Division)	•••	48	0	*****		781	0	*****	******		644 779	0	
Do. Southern Do. Western	•••	18 89	0	*****		960 709	ŏ	*****	*****	ı	708	ŏ	1.
Belgaum		104	ŏ	*****		798 523	0	******	53		837	0	
Dhárwár-Bijápur (New combin	eď	19	0	15	0	257	ŏ	******	—	0	680 497	0	
Division). Ratnágiri		9	0			· 10	0	•	-		•	Ť	
F-1-1 C17 Ct 1		704	0	15	0	3,610	0	*****	950	_ -	19	0	
	-	·				-/	<u> </u>	******	259	<u> </u>	4, 588	_	
SIND CIRCLE.					.								•
	••	38 5		*****	١	232 45	22	100109	183 39		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	÷
Arkana ••• ••• ••• Tudorshad		12 5	10	*****	- }	76	73	*****	185 39 142 49		455 1 231 4	35	
armtol:	••	8 17 3 49		*****	. [54 59 111 89		******	1 81 2 5	2	244 3	16	
,	~1_						14	*****	113 35	8.	. 228 50	00	
" Total Sind O'-1			آ أرب		١,		<u> </u>			[_		i	,
Total, Sind Circle GRAND TOTAL	•-	63 47 1,903 47	— -	******		475 13	12		621 12	o	1,160	86	1 pt 1

FORM No. 17.

			· · · · · · · · · · · · · · · · · · ·			GRAZING	ON PAYMEN	it-Numbi	R OF ANIM	ALS.		•	
	ļ			:		· · · · · · · · · · · · · · · · · · ·	1 '•		<u> </u>				•
	,	=	At	full rate	8,				41	At priv	ileged m	itos.	•
Division.		Cows	Goats		Other			Cows	Goats		Other	Feer	received.
	Buffa- loes.	and Bul- locks.	and Sheep.	Camels		Fees received.	Buffaloes.	and Bullocks.	and Sheep.	Camels.	Ani- mals,	Actual.	Value at full rates.
1	2	3	4	- 5	6	.7	8	9	1.0	11	12	13	14
NORTHERN CIRCLE.		,		· · · · · · ·		Rs. a. p						Rs. a. p	Rs. a. p.
		٠.				•				•		`	
Panch Maháls	1,285	3,414	***	'		2,992 0 (1,192	3,804	•••		•••	676 0 (3,094 0 0
Surat	•••	***	•••	•••		*****	***	11,351	* ***	•••		1,880 0 (11,851 0 0
North Thana	***	61		•••	•••	38 0	69	325	• • • •	•••		78` 0 (289 0 0
Central do	83	,	1	•••	•••	2,603 0 (53 8	2,646				642 0 (2,326 0 0
South do	151	1,112		•••		884 0 (2,398	3,043	•••	•••		1,687 0 (4,899 0 0
North Násik	67	619	•••	•••	451	1,167 0 (13,449	114,730	125,866	•••	1,842	28,700 0 0	1,60,467 0 0
South do	33	62	***	•••	•••	; 95 0 (29,430	101,754	30,431		408	21,994 0 0	1,42,200 0 0
Total, Northern Circle	1,619	9,296	•••	•••	. 451	7,779 0 (47,076	240,653	156,297		2,250	56,657 U C	3,24,626 0 0
CENTRAL CIRCLE.		-		<u> </u>					•				
East Khándesh	1,547	11,010			87	12,644 0 (34,955	194,218	,		573	30,922 0 (2,29,746 0 0
West do.	113	295	• • •	•••	91	499 0 (11,411	82,492	•••		994	12,67 0 0	-5-031.20,000
North do	9,903	69,800		. ***	1,365	29,118 0 (•••	• •	\ \	•••	••••••	
Poona	7	75		•••	•••	82 0 (19,780	1419241	45,949		895	24,881 0 0	1,64,781 0 0
Sátára •••	10	***				10 0		90,633	200		125		1,31,520 0 0
Kolába 1	- 41	÷ 46	. <u>:</u> .			87 0	2),14	86,353	. 142		16	i .	
Total, Central Circle	11,621	81,226	<u>-</u> -	103	1,543	42,440 0	-	594,937	46,291		l——		1,06,544 0 0 7,27,488 0 0
SOUTHERN CIRCLE.				4									
Kánara, Northern Division	- 2	ر 35	***	***	-	235 0]
Do. Eastern do	i	46.	· ·		***			897	***	***	•••	5,386 0 0	02,550, 0 0
Do. Central (New Di-		•••	•••	***	***			203	2 .	***	•••	3,157 0 0	',
vision) Do. Southern do		1		•••		1 0	_	435	*** ***	٠	•••	4,953 0 0	39,435 O C
Do. Western do			•••	***	***	1 0 (]		127	****	•••	14,862 0 0	1,12,975 0 0
	 	77	•••	•••	. ***		1	008	•••	•••	***	5,269 0 0	38,008 0 o
Belgaum	1,1		1.750		10	1,177 0		123	***		•••	9,655 0 0	57,128 0 0
Dhárwár—Bijápur (New combined Division).	1,5		1,756	•••	18	1,860 0	130,	•	4,443	•••	686	20,451 0 0	1,31,669 0 0
Ratnágiri.		27	1750	<u> </u>	. • • •	*****		15	••••		***	2 0 0	15 0 0
Total, Southern Circle	2,96	-	1,756 ———	<u></u>	18	3,273 0 (432,	939	4,572	··· .	686	63,735 0 0	4,34,326 0 0
SIND CIRCLE.	- 073					,					,		
Sukkur	l l	10,324		. 338	256	13,136 0 (•••	•••	***	•••	•••	*****	******
Lárkána	4,609	3,123	<i>j.</i>	455	124	-	·	•••	***	***	•••	••••	•••••
Hyderabad	3,969	6,273	,	772		14,815 0 0	•••	•••	. •••	•••		******	*****
Jerruck	5,138	5,888	18,072	1,395	4	11,435 0 0		•••	•••	Fee	***	****	••••
Total, Sind Circle	21,087	25,608	120,491	2,960	400	46,183 0 0	•••	•••		•10		*****	
GRAND TOTAL	153,	424	122,247	2,960	2,412	99.67 5 0 0	1,442	3,453	207,160	***	4,999	2,20,035 0 o	14,86,440 0 0
	,			•	,				<u> </u>	4			

Bellindown Court		·				. Gra	ZING FREE	-Number	OF ANIMALS	.				· · ·
Buildream Government of Colors Buildream Research Colors Buildream Res	· .			der Settle	ment.			During p	easure of G	overnment or Settleme	, or otherwat.	vise than		Gman) Matalant
Rs. a. p	Buffaloes	Cows	Goats	Camels	. Ani-	vaine of rees	Buffaloes.	and	and	Camels.		Value of Fees at full rates.	Fees at full	Value at full
	15	16	17	18	19	20	21	22	23	24	25	20	97	28
		•				Rs. a. p.	-					Rs. B. D	Record	Rg. 9. 1
				·						·			2200 (34) p.	
	• • •	•••	•••	. ,	•••	101110	31,613	114,982	•••		***	89,104 0 (89,104 0 0	95,190 0
	. 100	•••	***	***		*****	1,719	25,551	4,217	•••,	71	31,558 0 (81, 558 0 0	42,009 0
1,050 4,500 3,00 5,850 0 0 75,088 0 0 5,850 0 0 1,48,145 0 1,48,145 0 1,48,145 0 1,48,145 0 1,48,145 0 1,48,145 0 1,48,145 0 0 1,48,145	100	1		•••		*****	9,540	65,650	***	***	·	52,956 0 (52,956 0 0	53,283 0
1,050	•••		•••	• • •	•••	*****	10,950	45,710	•••		29	42,274 0 (42,274 0 0	47,203 0
1,050	***	***	•••	٠,.	***	*******	19,600	80,860	***	•••	•••	75,038 0	75,038 0 0	80,821 0
13060 4,500 300 5,850 0 0 78,422 382,783 4,217 100 2,90,930 0 0 2,96,780 0 0 6,20,165 0 3,317 11,440 61 1,4,827 0 0 14,827 0 0 1,1,2,67 0 0 1,1,2,047 0 3,317 11,440 61 1,4,827 0 0 14,827 0 0 1,1,2,67 0 0 1,1,2,047 0			***	***	•••	•••••	•••	•••	***	***		•••••		1,61,634 0
		.	,		300)	***		***	•••	*****	5,850 0 0	1,48,145 0
	1,050	4,500			300	5,850 0 0	73,422	332,753	4,217		100	2,90,930 0 0	2,96,780 0 0	6,29,185 0
	ē.								•		* . ,	,		
		•••	***		•••	\$40 ··	8,317	11,449	***		61	14,827 0 0	14,827 0 0	2,57,217 0
	•••	·	,		••••	Indres	960	16,506	5		80	'	,	
	•••		•••				2,874	25,208		•••	. 79	3,520 0 0	l ·.	
525 1,925 2,450 0 0 1,008 2,557 3,565 0 6,015 Q 0 1,2,646 0 625 1,925 2,450 0 0 8,184 55,841 5 220 39,609 0 42,059 0 8,11,087 0 7,389 0 7,369 0 42,059 0 8,14,087 0 12,342 0 12,342 0 32,646 0 .	•••	•••				•••••	25	121	*** *			146 0 (146 0 0	1,65,009 0
525 1,925 2,450 0 0 8,184 55,841 5 220 39,609 0 0 42,059 0 0 8,11,987 0 7,369 0 0 7,369 0 0 42,059 0 0 42,059 0 0 42,059 0 0 42,059 0 0 42,059 0 0 42,059 0 0 42,059 0 0 42,059 0 0 42,059 0 0 42,059 0 0 42,059 0 0 42,059 0 0 32,043 0 0 12,342 0 0 32,426 0 0 32,426 0 0 32,426 0 0 32,043 0 0 11,12,076 0 0 0 0 0 0 0 32,043 0 0 11,12,076 0 0 0 0 11,12,076 0 0	•••	. •••	•••					·		***				1,31,530 0 (
	525	1,925			•••	2,450 0 0	1,008	2,557	***	***		3,565 0 0	6,015 Q 0	1,12,646 0
7,369	525	1,925		•••	•••	2,450 0 0	8,184	55,841	5	***	220	39,609 0	42,059 0 0	8,11,987 0 (
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	•••	•••				i . I				•	1		27	
13,374 13,374 0 0 13,374 0 0 71,674 0 1,53,529)		***	•••		•	i. I	•				!	}		i k
1,38,529			•••	•••	***				İ				•	
15 0	•••	890	•••,	"·		•••••		- 1	·			1	•]	1,53,529) 0
33,095 33,085 0 33,085 0 4,70,684 .0 1,224 4,696 38 2,632 0 11 82 39 0 2,671 0 15,807 0 1,155 3,033 11 937 0 16 21 26 675 143 0 0 1,050 0 7,847 0 9 12 11 0 65 326 1,141 955 1,948 0 0 16,774 0 401 245 61 2 9 341 0 1,768 5,445 951 347 2,897 2,683 0 0 3,024 0 14,459 0 2,789 7,986 61 2 58 3,891 0 1,880 5,874 951 1,514 4,527 4,813 0 0 8,704 <td< td=""><td>***</td><td>i.</td><td>•••</td><td></td><td>•••</td><td>104144</td><td>~ ****</td><td> </td><td></td><td>. </td><td>•••</td><td></td><td></td><td>15 0 0</td></td<>	***	i.	•••		•••	104144	~ ****			.	•••			15 0 0
1,224 4,696 38 2,632 0 0 11 82 39 0 2,671 0 0 15,807 0 1,155 8,033 11 937 0 16 21 26 675 143 0 1,050 0 0 7,847 0 9 12 11 0 85 326 1,141 956 1,948 0 1,959 0 16,774 0 401 245 61 2 9 341 0 1,768 5,445 951 347 2,897 2,683 0 3,024 0 14,459 0 2,789 7,986 61 2 58 3,891 0 1,880 5,874 951 1,514 4,527 4,813 0 0 54,887 0	•••	•••	144	•••	***	*****	83,0	95		- -		33,085 0 0	33,085 0 0	4,70,684 ,0 0
1,224 4,696 38 2,632 0 11 82 39 0 2,671 0 15,807 0 1,155 3,033 11 937 0 16 21 26 675 143 0 1,050 0 7,847 0 9 12 11 0 85 326 1,141 956 1,948 0 1,959 0 16,774 0 401 245 61 2 9 341 0 1,768 5,445 951 347 2,897 2,683 0 3,024 0 14,459 0 2,789 7,986 61 2 53 3,891 0 1,880 5,874 951 1,514 4,527 4,813 0 0 54,887 0						.		·						
9 12 11 0 0 85 326 1,141 955 1,948 0 0 1,959 0 0 16,774 0 401 245 61 2 9 341 0 0 1,768 5,445 951 347 2,897 2,683 0 0 3,024 0 0 14,459 0 2,789 7,986 61 2 58 3,891 0 0 1,880 5,874 951 1,514 4,527 4,813 0 0 8,704 0 0 54,887 0	1,224	4,696	* * * * *		38	2,632 0 0	11	82			•••	89 0 0	2,671 0 0	15,807 0 0
401 245 61 2 9 341 0 1,768 5,445 951 347 2,897 2,683 0 3,024 0 0 14,459 0 2,789 7,986 61 2 58 3,891 0 1,880 5,874 951 1,514 4,527 4,813 0 8,704 0 54,887 0	1,155		•••		11	937 O O	16	. 21		26	675	143 0 0	1,050 0 0	7,847 0 0
2,789 7,986 61 2 58 3,891 0 0 1,880 5,874 951 1,514 4,527 4,813 0 0 8,704 0 0 54,887 0	· ′9	12	•••	***	***	11 0 o	85	326		1,141	956	1,948 0 0	· 1,959 0 0	16,774 0 0
	401	245	61	2	9	341 0 0	1,768	5,445	951	347	2,897	2,683 0 0	3,024 0 0	14,459 0 0
4 364 1441 61 2 358 12 101 0 0 511 090 5 173 1 514 4 847 9 68 427 0 0 2 80 698 0 010 cg 740 0	2,789	7,986	61	2	58	3,891 0 0	1,880	5,874	951	1,514	4,527	4,813 0 0	8,704 . 0 0	54,887 0 0
THOUSE LINEAR A USE OF THE PROPERTY OF THE PRO	4,364	14,411	61	2	358	12,191 0 0	511.0	39	5,173	1,514	4,847	3,68,437 O O	3,80,628 0 01	9,66,743 0 0

FORM No. 18.—Statement showing Area of Plantations in the Bombay Presidency, including Sind, for the year 1915-1916.

				ARBA:	n Aores	•	DOF	ING THE	TOTAL RITURE	PROM	Revenue during the	Total revenue from date of	Remarks.
Division.	Kind of Plantation.		In 1st of 181 of 1915.	110	Excluded during he year.	Area on 30thJune 1916.	Creation.	Upkeep.	Creation.	Upkeep.	year.	of plan- tation.	Temarks.
1	2	_	3	· 4	5	6	7	8	9	10	11	12	13
NORTHERN CIRCLE.			•				Rs.	Rs. a. p.	Rs.	Rs.	Rs.	Rs.	
Panch Maháls		•••	4,703 1,422	186	1,410*	4,889 12	132	537 0 0 	9,793	13,501	•••	***	*Area trans- ferred under
Surat North Thána	, D o.		22 9	16	•••	38 9	301 44	652 0 0 353 0 0	1,149 1,338	1,149 $7,231$	•••	***	cultural operations.
Central do	Do.	•••	90 10 0	***	100	90		73 0 0	1,955 217	9,569 119	***		
South Násik	m (.)	***	6,346	202	1,510	5,038	567	1,615 0 0	14,452	31,569		•••	
,		•••	172		172	0,000			130	114	•••	4:11	·
Panch Maháls Snrat	Cultural operations Do.	•••	•••	1,410 94	***	1,410 1,149	1,230 30	528 0 0	1,821	 ••• æ	*** ,		į.
North Thána Central do	Do. Do.		1,055 241	344	241 673	344	58	6 0 0	•••	111 48	***	****	
South do North Násik	Do. Do.	•••	673 157	451	285	323	54		319	•••	•••	•••	
-	Total	•••	2,297	2,299	1,371	3,226	1,372	529 0 0	2,270	1.59			
	Total, Northern Circle	a	8,644	.2,501	2,881	8,264	1,939	2,144 0 0	16,722	31,728			-
CENTRAL CIRCLE.								.•					
East Khándesh		•••	•••	•••		***	•••	*****	***	***	•••	***	
West do North do	Do.	•••	•••		•••	***	***	٠٠٠ ٠٠	***	***	***	***	
Poona Sátára	Do. Do.	•••	239	8		247	237	430 0 0	2,064	1,806	426	1,387	
Kolába		***	l	13	l	103	259		2,064	1,806	426	1,387	,
• • • • • • • • • • • • • • • • • • •	Total		330		 _	350	496		2,004		-		. '
East Khándesh West do	1 Da	•••	- 000	55 435		55 435	102 177			***	•••	•••	12.
North do Poons	The contract of the contract o	• • •	1.133	† 3,870	1,633	3,870	1,158	*****	***	***		***	† 411 acres
Satára Rolába	Do.	•••	1,079		1,079	911	1,421	*****	•••	•••	***	***	tre a t e d under Agri- culture cum
	Total	•••	3,384	5,271	3,384	5,271	2,868	*****	•	`			Forestry.
· · · · · · · · · · · · · · · · · · ·	Total, Central Circle	•••			3,385	5,621	3,364	430 0 0	2,064	1,806	426	1,387	
SOUTHERN CIRCLE.	:			 	-								
Kanara Centra		***	148	13	•••	161	{	$(a)1,260\ 0$ $(b)\ 928\ 0$		10,424		***	(a) Charged in Kanara
(New Division) Kánara, Southern.	Do.	•••	603	و ا		612	3,056		67,641		1,478	15,759	W. D. (b) Charged
Do. Western DhárwárBijápui (New combined	Do.	***	170 10		***	187	***	1,692 0 0	1,285 43	11,555	50	481	in Kanara, C. D.
Division). Ratnágiri	Do.	• •••	150	2	•••	152	156	340 O O	3,795	3,414	142	6,582	
* *	Total	•••	1,081	41	•••	1,122	3,214	4,220 0 0	74,354	25,393	1,670	22,827	· .
Kánara, Eastern Dhárwár-Bijápur Division.	Cultural operations Do.	***	•••	15,298 1,171		15,298 1,171	2,978 244		2,978 244		•••	***	
	Total	•••	••••	16,469	•••	16,469	3,222	*****	3,222		·		
	Total, Southern Circle			 -	 -	17,591	6,436		 	25,393	-i	22,827	-
SIND CIRCLE.						 				<u> </u>		-	
Sukkur	Ble-mle-tiene	•••	233		340	233			3,895	50,871		7,844	
Larkána Hyderabad	Do. Do.	•••	30 30		***	16 30	29		56	2,818 10,489	141	3,784	
Jerruck	Th.	••	22			22	_ 16	467 0 0		4,147			<u> </u> .
*	Total.	•••				301	-	4,116 0 0	5,841	67,825	812	10,828	_
Sukkur Lárkána	Do.	•••	0 400			4,717 2,029		119 0 (1,159 796	39 2,897		***	
Hyderabad ••	Do.	***	5,405	75	373	5,107	•	1,616 0 (2,323	10,812 5,266	:	***	
Jerreck	Total		29,955	\ 	·	-	- 			19,014	<i></i>	-	-
	Total, Sind Circle		30,253	<u> </u>	·	_{	-	. 	-	86,389	-	_	-
•	GRAND TOTAL		<u></u>				. 1					35,042	
	Juan Ivian	•••		J = 0,002	1.,040	00,180	12,108	U U U	1,10,5/9	1,20,310	סו שנים וי	100,000	

FORM No. 19.

FORM No. 19. - Outturn (in cubic feet, solid) of Timber and Fuel

	Тім	BER IN TI	HE BOU	GH I	Loss.	Тім	BER IN T	HH ROU	ен: Ро	LES.	SAY	WN OB So	QUAR.	ер Т	IMBER.
Division.	Government.	Purchașora	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
NORTHERN CIRCLE.	C. ft.	C. ft.	C. ft.	C.ft.	C. ft.	Ć. ft.	C. ft.	C.; ft.	C. ft.	C. ft.	C.ft.	C. ft.	O.ft.	C.ft.	C. ft.
, Reserved Forest.] .				_									, ,
Panch Mahals •••	•••	23,144	, ,	•••	20,155	2,105	87,123	55	•••	89,283	•••	***		***	***
	ļ		1.040		E4 0E0					,					
Surat	**	52,596	1,642	***	54,358	} •••	•••	•••	***	••• · 	•••	***	•••	••,	***
North Thána		25,110	. 546	•••	25,110	4,385	473,269	498 1	•••	477,654		•••	•••	•••	***
Central Thana	•••	15,713	•••	•••	15,713	656 656	230,466	8	***	231,130	} •••	28,740	•••	•••	28,740
South Thána ••• •••		27,836			27,836	87	.151,783	•••	•••	151,870	•••	51,641			51,64 1
North Násik					• -		18,000	2,77 0		_20,770) •••	•••			***
South Násik ••• •••		126,122	5 8		126,180	692	205,153	800	•••	206,645		•••	•••	,,	
Total, Reserved Forest		267,521	1,831		269,352	7,925	1,165,794	3,633		1,177,352		80,381	•••	•••	80,381
			<u> </u>	ļ	 	ļ <u>.</u>					<u> </u>				· · ·
Protected Forest.	141	23,648			23,648		158,475	229	* *	158,704		•••	•••		
Central Thana		1,397			1,397	***	20,950	868	***	21,818	•••	8,364	•••	, 	8,364
South Tháng		51,372			51,372		83,848	2,142	•••	85,990	694	6 1,456		•••	62,150
South Nasik	···	136,426	•••		136,426	•••	214,447	***	•••	214,447	•••	•*•	•••	***	***
fotal, Protected Forest		212,843	•••	•••	212,843		477,720	3, 239	***	480,959	694	69,820	***	***	70,514
Unclassed Forest. North Thána					,									•	-
•	***	***	,		. •••	•••	9,933	•••	***	9,933	•••	494	. ***	•••.	***
Central Thans	141	M151	•••	***	1 51	***	877	•••	***	877	•••	. 89	•••	***	89
South Násik	•••	115,795	•••	 	115,795		194,632	*49	444	194,632		•••		•••	•••
Total, Unclassed Forest		115,946	•••	•••	115,946	***	205,442	***	•49	205,442		89	•••	-41	89
Leased Forest.	40 = -	40.000			700						- ,				
• • • • • • •	48,748	·	·	76,220					***		31,883	***	 		31,888
Total, Northern Circle	48,748	686,533	1,831	76,220	763,332	7,925,	1,848,956	6,872	•••	1,863,753	32,577	150,290	•••	•••	182,867

during the year 1915-1916, and Agency of Exploitation.

·		 -		<u>-</u>	<u> </u>			<u> </u>		1				· · ·	1
	Mis	CELLAN	,,	, -	\	To	CAL TI	MBBR.			<u> </u>	For	ii.		
Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total,	Government.	Purchasers.	Free grantees.	Right-holders.	Total	Total Outture.
17	18	19	20	21	22	23	24	25	26	-27	28	29	80	31	33
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	O. ft.	C. ft.	C. ft.	C, ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C, ft.
een	403	. 200	***	***	2,105	107,267	66	•••	109,438	300	575,300	. 80	1,533,100	2,108,780	2,218,218
•		****	148		***	52,596	1,762	•••	54,358	8,680	74,240	, ===		82,920	137,278
. 084	***	108	•••		4,385	498,379	111	; ; , , , , ,	592,764	1,050	1,494,725	,	1,1 66,587	2,662,362	8,1 65,126
200	3,668	***	;	3,668	656	278,587	8	496	279,251	***	1,154,324		787,980	1,892,304	2,171,555
	• • • •	***	***	•••	87	231,260	•••	***	231,347	8,6 4 0	1,613,325		2,521,680	4,188,645	4,369,992
101	***	•••	•••	144	120	18,000	2,770	•••	20,770	2,430	120,584		***	123,014	143,784
•••	***	. 19	•	19	692	331,275	877	•••	332,84 4	65,494	31,660		22,906	120,060	452,994
•••	3,668	.19	•	3,687	7,925	1,517,364	5,483	•••	1,530,772	81,594	5,064,158	80	5,982,253	11,128,085	12,658,857
		• "	Pog.			182,123	229	•4•	182,352	*** .	158,475		118,000	276,475	458,827
•••	518	•••	***	518		. 31,229	868	Ì	32,097	•••	9,471		21,650	81,121	68,218
794	***	•••		•••	694	196,676	2,142	•••	199,512	•••	201,780			201,780	401,202
***	tee	•••	•	, .	•••	350,873	· " ,	•••	3 50,873	•••		-:-	***	***	8 50,873
,	518	***	•••	518	694	760,901	3,239	145	764,834	•••	869,726	•••	139,650	509,378	1,274,120
691	***	•••	•ná	844	(009	9,933	***	•	9,933	***	7,925	•••	***	7,925	17,858
• 47	•••	***		•••	•••	1,117	•••	•••	1,117	•••	***		•4•	***	1,117
•••	•••	***	•••	· .	***	310,427	•••	•••	310,427	•••	•••	•••	***	•••	810,427
400	•••	•••	•••	•••	***	821,477	•••		821,477		7,925	***	•••	7,925	329,402
	***	•••	•••	***	80,631	40,223	•••	76,220	197,074	17,150	***	•=•	1,500,000	1,617,150	1,714,224
•••	4,186	19	,	4,205	89,250	2,639,965	8,722	76,220	2,814,157	98,744	5,441,809	80	7,621,903	13,162,536	15,976,693

и 1495—33

FORM No. 19.—Outturn (in cubic feet, solid) of Timber and Fuel

	Тім	BER IN T	HE ROU	GH:		Тімі	BER IN TH	E BOUG	H:P	oles.	SAW	n or Squ	AREI	Тім	BER.
Division.	Government.	Parchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasera,	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
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C.ft.	C. ft.	C. ft	C. ft.	C.ft	C.ft.	C. ft.
CENTRAL CIRCLE.					,		,	,		!					•
East Khandesh		•••	***	•••	•# 4	138	172,537	48		172,723	404 -	. ***		***	146
A							,								•
West Khándesh	1,440	***			• 1,440	•••	127,830	5,14 0		132,970	104	101	•••		***
		•		:			•	:							
North Khandesh	39	11,481		35	11,555		81,067	72	11,484	82,623		6,745			6,745
											,			;	
Kolába ••• ••• •	232	32, 663	•••		82, 895	74 3	156,355	2,811	•••	159,909	741		•••	***	••ь
		•			:		•				:			-	
Poons	53	8,794	•••		8,847	4,455	93,883	7.656		105 004				ļ	~,
		,,,,,		•••	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	,000	,		105,994	*** *	***	***	***	•••
						· •					,				
Sátara	• • • •		•••	•••	***	10	54,361	3, 985	•••	5 8,356	***	100			**6
					<u> </u>	_									
Total, Central Circle `	1,764	52,9 38	′	35	84,737	5,546	686,033	19,712	1,481	712,775	•••	6,745	•••	*#4	6,745
•									-	-					
.							}				-				y
		<u> </u>				1								`\	

during the year 1915-1916, and Agency of Exploitation -continued.

					-			· · · · · · · · · · · · · · · · · · ·					<u> </u>	 .		,
		Mis	ORLLAN	Bous.			Тот	AL TIMBE	B.				Funt.			Total.
	Government.	Purchasers.	Free grantees,	Right-holders.	Total.	Government.	Purchasers,	Free grantees.	Right-holders.	Total.	Government	Purchasers.	Free grantees.	Bight-holders.	Total,	Outturn.
	17	18	19	20	21	22	23	24	25	26	27	28	29	80	81	82
· c	. ft,	C. ft.	C. ft.	C. ft.	C. ft.	O. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	O. ft.	C. ft.	C. ft.	C. ft.	C. ft.
	}	• .				,	- 1	•				}		}		
•	•••	. •••	***		•••	138	172,537	48	•••	172,728	8,7 20	336,210	27,871	***	867,301	540,024
						į	•			`	:			-		
			- 440	•••	4.05	1,440	127,830	5,140	***	134,410	•••	185,125	40	10,000	195,165	3 29,5 7 5
•		,		•	. ,							L				*
	*र.ष *४		*.	•	•••	89	99,293	164	1,427	100,923	52	830,728	-80	19,522	400,877	501,800
•	• .	,",				:										,
• ,		•					- . 									
٠	37	5,057	•••		5,094	1,012	194,075	2,811	, \	197,898	46,070	1,232,833	•••	378,891	1,652,294	1,850,192
, (4	• .	* .									~	• :	}			(
•	•••	• • • • • • • • • • • • • • • • • • •	4	*****	• • • •	4,508	102,677	7,656	•••	114,841	136,284	869,860	1,600		1,007,744	1,122 585
•			•							· .		•				
	••.	***		***	***	10	54,861	3,985		58,356	100,157	-3,750	***	100,000	203,907	262,268
		•					·									
	37	5,057	•••	•••	5,094	7,147	750,778	19,804	1,427	779,151	286,283	3,008,501	29,091	502,913	5, 826,783	4,605,939
		•					•.		·	• *			•	, •	:	
·	.;													·		
		-										•				

FORM No. 19.—Outturn (in cubic feet, solid) of Timber and Fuel

	Tı	MBER IN	THE R	oven : L	ogs.	Ti	(BER IN	THE BO	cen: Po	LRS.
Division. •(As readjusted on 1st February 1916 as per Government Order No. 11396 of 27th October 1915, Revenue Department).	Government.	Purchasers,	Free grantees.	Right-holdem,	Total.	Government.	Purchasers.	Free grantoes.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11
SOUTHEBN CIRCLE.	C. ft.	C. ft.	C. ft.	C.ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Kanara, Northern*	454,069	123,221		, +48	577,290	l	149,876	462	***	153,468
Kánara, Eastern®	121,198	25,156	25	***	146,319	8,823	66,634	2, 85 6	***	78,513
	}		"		٠.		,			
	·	, .			, !		ľ			
						!			`	
Kanara, Central [*] (New Division from 1st February 1916).	107,467	7,533	2,829		117,829	•••	14	•••	•••	14
			} ,					\		
	!	!	. , .			,			. •	Ī
		}				}			<i>,</i>	
Kárara, Southern	18,109	36,638	10,589	, .	65,536	, 			•••	
	}	1				· ·				
•]	·			Ì	-			,	1
].			})	e ') .		1)
•		1	ļ		ļ	- '		ļ. ·	<u> </u> .	1
Kanara, Western* ••• •••	58,808	87,394	3,911	•••	150,113	1,174	. 592	1,874	. •••	3,640
Belgaum	6,761	165,491	774	•••	173,026	5,953	44,979	2,265	•••	53,197
										}
		.					'	,		
•) · 		ŗ						
Dhérwér—Bijépur* (New Combined Division).	1,937		***	***	1,937	1,632	27,800	184	444	29,116
(New Combined Division).	<u> </u>	 						-	••••	20,110
	1						·			1
•	ļ									
	}	} ·	[•						}
·								[}
•					,		. ,			1
Ratnágiri	•••	585	137	***	672	-44	1,147	254	***	1,401
Total, Southern Circle	768,289	446,168	18,265	***	1,232,722	20,712	290,742	7,895	. 1	319,349
			•	•					- 	
<i>i</i> .						· ·]				
	' <u></u>	;	'			ĺ	·	.]		
· .	. 1	}				•		}	,	} •
	1		: [.]	•		.	·	,
	{		.	İ	ļ	, }	1	.		

APPENDICES.

during the year 1915-1916 and Agency of Exploitation-continued.

SAWN	OR SQUA	RED '	Тімт	ER.		Mișcellaneous	
Government.	Purchasers.	Free grantees.	Right holders.	Total.	Government.	Purchasers.	Free grantees.
12	13	14	15	16	17	18	19
C. ft.	C. ft.	C.ft.	C.ft.	/ C. ft.	1	C. ft.	
77,984	•••	 .	•••	77,984	******	*****	****
110,853	•••	•••	-••	110,853	Sandalwood— Kh. mds. lbs. 8 15 27 Rejected billets No. 176, Chips stacks 4.	*******	•••••
			<u> </u>				
408	•••	•••		•••	Sandalwood— Kh. mds. lbs. 23 6 21	*******	•••••
:							
W was	•••		•••	•-•	Sandalwood— Kh. mds. lbs. 9 2 1	410	******
•							
470), •••		•••	470	******	560	******
2,115	10,228		***	12,343	Sandalwood— trees 333, billets 167, pieces and stumps 148.	******	••••
***		•••	•••	***	Sandalwood— trees 174, billets and	256	••••
			, j	•	pieces Kh. mds. lbs. 76 15 19 Chips stacks 35, Chips bags 109.		
***	•••	141	***	•4•	00\048	******	40000
,191,422	10,228			201,650	Sandal trees 507,	560	*****
				·	Wood Kh. mds. lbs. 118 0 12 Rejected billets stumps and pieces 491.	Sandal trees 256	•
	,		•	,	Chips stacks 39, Chips bags 100.		·

APPENDICES. *
FORM No. 19.—Outturn (in cubic feet, solid) of Timber and Fuel .

Miscellaneo		ì	TOTAL TIMBER.				
Rightholders	{	ä.	g s	Free grantees.			
lon-		Government	Parchasers	r a n			
elit.	[a]	Veti	40°	86 83			
	Total,	9	Pag.				
20	21	22	23	24			
	C. ft.	C. ft.	C. ft.	C. ft.			
30.024	#45753	535,183	273,097	46			
211120		240,814	91,990	2,887			
	Sandalwood— Kh. mds. lbs.	Sandalwood— Kb. mds. lbs.					
	8 15 27	8 15 27	{				
	Rejected billets No. 176,	Rejected billsts No. 176,	1	•			
•	Chips stacks 4.	Chips stacks 4.	[
	1	. •	ļ	100			
			}.	•			
] -				
468-55	Gandal-sad	107,467	7,547	2,829			
•	Sandalwood— Kh. mds. lbs.	Eandalwood— Kh. mds. lbs.	, (
•	23 6 21	23 6 21	[
av .		•	}				
•.	1 .			′ -			
	}	}	. 1				
900100	Sandalwood-	13,109	36,838	10,58			
*	Kh. mds. lbs.	Sandalwood-		-0,00			
•	9 2 1	Kh. mds. lbs. 9 2 1	{ · · .				
				·			
				ر مـ			
•							
	560	60,452	88,546	5,78			
	Sandalwood-	14,829	gno 200	(= 000			
****	Trees 333.	Sandalwood-	220,698	8,039			
	billets 167,	Trees 333, billets 197,					
	stamps 148.	pieces and stumps	. 1				
•	,	148.	1	*			
•		\	•				
,		{					
******	Sandalwood Trees 430,	3,569 Sandalwood—	27,300	184			
,	billets and	Trees 174	256				
•	pieces Kh. mas. lbs.	Kh. mds. lbs. 76 15 19	1	•			
	d 76 15 19	Chips stacks 35.		•			
	Chips Chips bags 100.	Chips bags 100.	1	× '			
•							
•			j (4.			
-				•			
200760	*****	, 611144	1,682	891			
				سنجيب ومهولون وجدد شعد			
	560	980,423	747.000				
******	Sandal	Sandal trees	747,698	26,160			
	Trees 763, Wood	507, Wood Kh. mds. lbs.	256				
• •	Kh. mds. lbs.	118 0 12	}				
	118 0 12 Rejected billets,	Rejected billets, stumps and pieces	{				
•	stumps and	491.	1	٠.			
,	pieces 491, Chips stacks 39,	Chips stacks 39, Chips bags 100.	1	,			
1	Chips bage 10		'	•			
	1 8	<u> </u>	1	•			
~~~							

## during the year 1915-1916 and Agency of Exploitation—continued.

· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<del>,</del>	· .		`		<u>• _</u>
TOTAL TIME	BB—continued.		,	FURL.	·	,	
Right-holders.	Total	Government.	Purchasers.	Free grantees.	Right-holders,	Total,	Total Outturn.
25	26	27	28	29	80	81	52
<del></del>				<del></del>	ļ <del></del>		ļ
******	C. ft.	C. ft. 102,400	C. ft. 284,822	C. ft.	C. ft.	C. ft. 887,222	C. ft.
J ,	835,685	1,200	185,873	15,750	. ,	202,823	538,508
	Sandalwood—  Kh. mds. lbs.  8 15 27 Rejected billets  No. 176, Chips stacks 4.	1		•	***		Sandalwood— Kh. mds. lbs. 8 15 27 Rejected billets No. 176, Chips stacks 4.
	•				, 	,	
414188	117,843 Sandalwood— Kh. mds. lbs. 23 6 21		71,182	11,100	•••	82,282	200,125 Sandalwood— Kb. mds, 1bs, 28 6 21
•					Ģ		
4 400198	65,536 Sandalwood— Kh. mds. lhs. 9 2 1	58,357	4,585,508	500	- 446	4,644,365	4,709,901 Sandalwood
494100	154,783	£08,152	1,260,683	1,840	***	1,768,675	1,923,458
-41-04+ -	238,566 Sandalwood— Trees 238, billets 167,	<b>2,975,504</b>	1,269,088	11,250	•••	4,255,792	4,494,358 Sandalwood— Trees 333, Billets 167,
	Pieces and stumps 148.	•	·	·			Pieces and stumps 148
1	31,058 Sandalwood—	17,0 <del>2</del> 8	244,312	1,750	***	263,090	294,143 Sandalwood—
	Trees 430, Billets and pieces Kh. n.ds. lbs. 76 15 19 Chips stacks 35, Chips bags 100.	•					Trees 430; Billets and pieces Chips stacks 35, Chips bags 100.
•	Curbs nags 100.			:		•••	•
4 = 1   1	2,078	***	18,075	200	***	18,075	15,148
406110	1,754,281 Sandal trees 763, Sandalwood billets— Kh. mds. lbs.	8,660,641	7,914,498	42,190	***	11,617,324	13,371,605* Sandal trees 763, Sandalwood— Kh. mds. lbs. 118 0 12
:	118 0 12 Rejected billets, stumps and pieces 491.					•	Rejected billets, stumps and pieces 491, Chips stacks 39,
	Chips stacks 39, Chips bags 100.	t of Timbo			0.1		Chips bags 100.

This is exclusive of 300,000 c. it. of Timber and 5,041,686 c. it. of Fuel shown under Privilege holders in the statement for the Southern Circle in Chapter II, Section 5 (o)—Outturn and sources of forest produce.

H 1495—35

FORM No. 19.—Outturn (in cubic feet, solid) of Timber and Fule

	Тт	MBER IN	THE R	<del></del>		Ттм	Ber`in T	нв вот	он: Р	ores.
Division.	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
	C. ft.	C. ft.	0. ft.	C. ft.	C. ft.	O. ft.	C. ft.	C. ft.	C. ft.	C. ft.
SIND CIRCLE.				::						
	,	- 40			· ·	;		'		) ]
Sukkur Actuals	316	146	. 61	•••	523	52	1 .	102	•••	169
(Estimate	712	20,212	•••	•••	20,924	840	20,339	370	•••	2],549
Total	1,028	20,358	61		21,447	892	20,354	472		22,718
	<del></del>	· .		ļ		ļ	<del> </del> -			
			.*	<b>[</b> ,	,					•
Actuals		***	211		211	<del>!</del>	451	3,717		4700
Lárkána Estimate	40	19,848	160		20,048	1,171	·l	2,026		4,168
						131.71	, 1,002	2,026	•••	14,279
Total	40	19,848	371	· · ·	20,259	1,171	11,533	5,743	, ***	18,447
	 								<del> </del>	· .
(Actuals	93	9,201	20		9,314	<u>.</u>				
Hyderabad Estimate	. 189	51,710	ade.	•••	51,899	•••	450	130	***	580
						· 				
Total	282	60,911	20		61,213	<b>N</b>	450	130	•••	580
								<u> </u>		]
	•									
Jerruck Actuals	731	540`	718	•••	1,989	•••	***		***	
Estimate	***	33,020	•••	•••	33,020	391	20,490	150		21,031
Total	. 731	33,560	718				<del></del>		·	
<b></b>	<del>, , , , , ,</del>	33,000	718	•••	35,009	891	20,490	150	744	21,031
Total, Sind Circle	2,081	134,677	1,170	•••	137,928	2,454	52,827	6,495	•••	61,778
GRAND TOTAL	320.882	1.270 316	21 266		2,188 719		<del></del>			
<b>→</b>	- ,	-,-,0,020	-1,400	10,2∂5	∠,±ö8 //19	36,637	2,87 <b>8,</b> 558	40,974	1,484	2,957,653
		}								
			. 4					1	1	
,				2		}	}			
				•		1		}		
				·	•		j	}	. 1	
					<del></del>	<u></u>				

# APPENDICES. during the year, 1915-1916 and Agency of Exploitation—concluded.

· Sawn	OB SQUA	RED '	Гімв	ER.	, ;	MISOBLLANBOUS.	
Government,	Purchasers.	Free grantees.	Right-holders.	Total.	Government	Purchasers.	Free grantees.
.12	13	14	15	16	17	18	. 19
C. ft.	C. ft.	C.ft.	C.ft.	C. ft.	. C. ft.	C. ft.	C. ft.
· -							
•				}		}	
.***	•••	9,00.		•••	}	******	~ ###*** ******
	•••			•••	100100	*******	******
<del></del>		<del>                                     </del>					
•		}	,				•
			<b></b> ,	•••	*****	*****	*****
19	•••	***	•••	19	******	15,298	,8, '
19				19	448 108	15,298	8
140 .		***	•••	200	444100	*****	, 49014a
	•••	•••	•••	***			******
•••	•4•	.,.	•••	•••		******	*
<del></del>			<u> </u>				
					******	******	
•••	•••	•••	•••			********	*****
•	•••	74.5	•••	`	******	*****	•
. 19	•••	•••	•••	19	*****	15,298	8
224,018	167,263	•••	***	391,281	87 Sandal trees 507, Wood:	25,101 Saudal trees 256	27
		·			Kh. mds. lbs. 118 0 12 Rejected billets, stumps and pieces 491, Chipsstacks 89, Chips bags 100.		· ·
	,			/	Outhe Berg 100.		. •

ÁPPI	endices.	r ·			<b>-</b> ,	•
FORM No. 19	<u>Outturn (</u>	(in cubic fo	t solid	) of Tin	nber and	Pylo

MIRCHLIAREO	gs—continued.	7	TOTAL TIMBER.		_
Right-holders.	Total,	Government,	Purchasers.	Free grantees.	
20	21	22	· 28,	24	
C. ft.	Ç, £i.	C. ft.	C. ft.	C. ft.	
					·
000000	gağosa	868	161	i 163 ,	
***********	*****	1,552	40,551	870	>
Secret 2	*****	1,920	40,712	538	
	, /			;	}. :
******	15,806	1,230	451	3,928	
			46,228	2,194	
	15,808	1,230	46,679	6,122	
					, ,
******	) testes	9 <b>3</b> 189	9,201 52,160	20 130	
*****	*****	282	61,361	150	
ر م وو					
*******	******	731 991	540 - 53,510	718 150 ·	
		1,122	-		•
· · · · · ·	100000	1,122	54,050	868 -	
lettep	15,806	4,554	2 2,802	7,673	
*******	25,165 Sandal trees 768, Wood :	1,081,374 Sandal trees 507, Wood : Kh. mde. lbs.	4,841,238 Sandal trees 256	62,859	
	Kh. mds. 1bs. 118 0 12 Rejected billets, stumps and	118 0 32 Rejected billets, atumns and		•	
	pieces 491, Chips stacks 39, Chips bage 100.	pieces 491, Chips stacks 39, Chips bags 100.	*		
	$j_{ij}$		•		

APPENDICES. 139
sharing the year, 1915-1916 and Agency of Emploitation—concluded.

TOTAL TIMBES	oontinued.			Fuer.			TOTAL.		
Right holders.	Total.	Government,	Parchaser.	Free grantees.	Right-holders.	Total	Outtarn.		
.25	26	27	28	29	30	81	32		
	C. ft.	C. ft.	O. 21.	O. ff.	C. ft.	O, ft.	O. ft.		
					• • •	· .	<b>4</b>		
	692	47,988	8,070,500	,		3,118,488	<b>3,11</b> 9,180		
******	42,473	2,720	906,464			909,184	951,657		
*****	48,165	50,708	3,976,964			4,027,672	4,070,887		
			•		,				
•=4900	4,879	39,300	******	***	• • •	89,300	43,679		
******	49,652	•	1,153,998	•••	18,282	1,172,280	1,221,932		
paptil	54,031	89,800	,1,153,998	in ,	18,282	1,211,580	1,265,611		
3.									
4 4444	9,314	154,836	******		100	15 <b>4,</b> 83 <b>6</b>	163,650		
0.00	52,479	62Ì	5,264,848	•••	•••	5,265,469	5,817,948		
0.004-0.0	• 61,793	154,957	5,264,848		,	5,419,805	5,481,598		
		1			5				
and the same of	1,989	33,841.	2,624,066	440		2,657,907	2,659,896		
******	54,051	7,458	2,691,090	•••	***	2,698,548	2,762,596		
******	.56,040	41,299	5,315,156			5,350,455	5,412,495		
.,,,,,,,,	215,029	286,264	15,710,966	•••	18,282	16,015,512	16,230,541		
77,647	5,562,618 Sandal trees	4,531,932	32,075,769	71,86k	8,148,098	44,822,160	50,184,778 Sandal trees 763,		
•	763, Wood: Kb. mds, 1bs, 118 0 12		. •				Wood Kh. mds. lbs. 118 0 12		
	Rejected billets,		· • è				Rejected billet atumps and pieces 491,		
	pieces 491, Chips stacks 39, Chips bags 100.				•	3.	Chips stacks 39 Chips bags 100		

This is exclusive of 300,000 c. ft. of Timber and 3,041,686 c. ft. of Fuel shown under, Privilege holders in the statement for the Southern Circle in Chapter II, Section 5 (c)—Outturn and sources of forest produce.

FORM No. 20.—Outturn of Minor Forest Produce during the year 1915-1916.

· • • •			<u> </u>	<del>,</del>		4	ILIZED.	1			
Description of Produce.	By Govern	mment y	Вур	urchasers.	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	
VADRUUDII GIDGI II	•	Rs.		Rs.	j	· Rs.	•	Rs.	-	Rs.	
NORTHERN CIRCLE.  State Forests.						,	,			•	
_	i	·	1 • 1	•						•	
m leaves · · · · · · · · · · · · · · · · · · ·				1,079		Б	. ***	. •••	******	1,0	
rvi	******			1,213	1 ***	900 ₀	***	2,58,251	*****	1,2	
ass and grazing ;	******	68,120	***	1,02,887 84,427	***	*****	***	5,048	******	4,29,2; 39,4	
nboos ta and Tembhurni leaves .	. *** **			17,259				***	******	17,2	
da nuts	******	1 444		3,476			144	***	*****	3,4	
ilhari bark				· 496	****	••• .	***	***	*****	4	
owrs seed	****	8,149	1	2,277	•••	***	***		******	10,4:	
nes	*****			768	•••		· ••• .	*** ,	441044	79	
i wood	*****	998 ~	••• . <u> </u> *	58	···	1	•••	***	***	•{	
nganese , sari flowers ,	*****	****		1,139 36		***	***	***	#####	1,1;	
pping fees	*****	***	•••	26		440.	194		*****	. 6	
ha grass.	140		***	785				•••	*****	7	
wad Bark	*****		•••	3,696		•••	•••	••• ,	. seeses	3,69	
oul Pods	100 -40			277	<b></b>	***	***	•••	*****	27	
cellaneous	1-12-0	650		864		• • • •	*** ^-	43,224	******	44,7	
		_ `.	1 .		<b>∤</b>		<u> </u> _'		] <u> </u>		
						٠					
Total, State Forests	444.00	76,919		1,70,761	. •••	6		3,06,523	******	5,54,20	
			·[	<del></del>	.[	₹ .	<del></del>				
Leased Forests.	* . Y	٠ .	•						,	٠.,	
ota and Tembhurui leaves.							<u> </u>				
ass and grazing	******	***		188	*** .	***	489 , ,	00 500	*****	18	
cellaneous	* *****	4 ***	•••	2,259	::	*** '	***	38,529 13,776	*****	38,52	
		***	***	*****	'''	***	· · · ·	10,770	******	16,06	
	<del></del>		· <u> </u> -		.][		<u> </u>				
Total, Leased Forests			1.				[		· [		
700013 McGrock 7 010000 100		•••	***	2,477	j	* *** *	ļ <b>***</b>	52,305		54,78	
	<del></del>	<u> </u>	· <u> </u>  .		.]'					· · ·	
Total, Northern Circle			] .[		1	:			•	_	
Total, Northern Circle	******	76,919	•••	1,73,238		6	•••	3,58,828	*****	6,08,99	
	<del></del>		,,	·						<u> </u>	
•		i	1						•		
CENTRAL CIRCLE.		1	1	•					•		
		l		•	1			,	•	•	
da and Shikekai	*****	6,094		10,379		434				16,47	
k cotton	T 1	J. •••	1	31		***		***		, , , , , , , , , , , , , , , , , , ,	
owra seed	Lhs. 391,28 <b>6</b>		1 . 1		1	•	•		Lbs.	• •	
owia seco. ,	991,200	12,484			•••	1.4	}	***	391,286	12,48	
ves, pods, bark, etc	******	•••		2,617	•••	 48	•••	***,	*****	2,61	
nits	*****	***	***	6,800 947	***	***	***	***	40-749,	6,84	
th, stone, murrum, etc	*****	<b>:::</b>	***	947 3,153		554	***	***	`, *****	94	
uss and grazing	•••••	26	:::	2,45,516		***	***	27,688	*****	3,70 2,78,23	
nboos	******	94		8,301		85	***	27,000	*****	2,75,2; 8,48	
censueous	40,000	825		117	•••	67	***	4,659	*****	5,66	
		<u>L</u> .		-			<b>\</b>			2,00	
	Lbs.					<del>-,,</del>	\ <del></del>	<del></del>			
Total, Central Circle	391,286	19,523	[	9 77 001	1	754	1	20.04#	Lbs.		
		,040	"	2,77,861	-:-	103	***,	32,347	391,286	3,30,48	
•			<del>  </del>			· • · · · ·			<del></del>  -		
3.			4		[ .				ŀ	•	
<u>,</u>		ľ		•	,		1				
OUTHERN CIRCLE.		1					[ .				
			j f				_	j			
aboos ss and grazing	******		2,233,369	47,943	30,472	185	†		99 69 641	40	
ss and grazing da, Shikekai, Cinnamon,	*** **	796	,	71,028	1 400	4,136		•••	22,63,841	48,12	
oney, Wax, Surgiflower,	******	***		48,536	}	***		•••		75,96	
uxvomica, Ramfal and			r 1	•	'		'''	•••	. ====	48,53	
ampatri.		•	]		<b>1</b>		'	ļ	1	., !	
rrying fees	141100 "		1 ·	7	Į .			1	ነ	•	
ping fees	******	•••		. 7,058	···. 4	5 <b>511</b>	***	•••	*	7,56	
es .	244.00		!	824 659	•••	151	•••	•••	*****	82	
s, horns and vension	101948	, •••		552 9	•••	151	***		*****	80	
palm leaves and Shindoli	*****	140		824		•••	***	:::	*****	82	

				•		ODUCE BRMO	APD OK OAT	LIZED.		•	
D	escription of Produce.	By Gov Age	ernment	Ву ра	rchasers.	By free	e-grants.	By right	-holdors.		Fotal.
	*	Quantity.	Value.	Quantity.	Value.	Quantity.	Value	Quantity	Value.	Quantity.	Value.
	1,	2	3	4	5	6	7	8	9	10	11
SO	UTHERN CIRCLE—	_	Rs.		Bs.	-	Rs.		Rs.	-	Rs.
ali	palm trees	•••		eriaga -	3,444		3.000				
aini aka	trees	***	•••	******	371	***	1,096		•••	*****	4,54 37
	iera	***	***	******	42	- •••	29		***	*****	"7
10ri		•••	4.00	*****	54 391	***	8 9	***	***		.0
	seeds	***	***		16	***		***.	. ***	*****	40
uigi	al sced	***	***	******	1,672		***	***	***		1.67
	9. 100 voc	***	- += 1	100-00	1,217	•••	***	1 444	•••	\$4++4+	1,21
ını	ar icaves	***	•••	,h b-up gg	1 600	•••			•••	*****	1
	urbi	• • • •	***	*****	680 453	***	***		***	•••••	68
	nuts	***	*		12	****	***		•••	•••••	4.
ng	oes. fruits		•••	*****	. 105		***		***	101100	10
ne me	wind family	*** ,		******	11	****	***	"" '	***	*****	
	d bark	***	•••	*****	19	•••	***		***	*****	1
bu.	l pods ~ /	•••	• •••	******	2,748 406	* ***	***	•••	4.4	*****	2.7
	re ,		***	*****		100	***		***	•••••	4
	Chekke	***	***	******	10		910	:::	***	444.44	
pt	dung .	.000	*** -	E-+	12	***	•••			*****	] :
	ndful	•••	***	141	14 22	***	***	] <b></b>	149	*****	
ΓV	i	•••	***	*****	125	-**	5		•••	1	
	ly pear	***	***		19		•••	- "	***	*1.***	1
	n grass	* ***	-40	*****	324	***	140		••	*****	8
sce	llaneous	•••	***	400140	45	••• •	•••	1.0		*****	1
ro!	tal, Southern Circle		796		1,89,089	\ <u></u>	6,130	<del> </del>		<u> </u>	1000
4							0,130		•••	.,,***	1,96,01
	SIND CIRCLE.	М. в.	. '	•					•	,	
(	Vegetables, fruit and flowers.	***	29	*****	*****		•		e ***	11114	2
	Babul seed	4 10	5			<b> </b>		<b></b>	•	4 10	
	Rahuja garden contract.	. ***	250	*****		***	•••	""		*****	2
	Sur-reed	***	***	Contract.		***	***		***	*****	2,20
	Lopping of Bahan Kandi branches.	744	. ***	691	35	•••	***	•••	***	691	†
	Jaw brushwood	100		353	22	***	440	<b> </b>		853	
	Dubh grass			102 bundles	1				***	102	]
ĺ	Straws	•••		2 cart loads and 50	4	,	***	•••	***	52	# N
ļ	Sur-reed			head londs. 5 bundles.				,			
	Kanh	***	***	385 bundles.	1 24	16 bundles.	1	•••	. ***	5 401	2
	Mango fruit Dickenson	•••	•••	Contract.	150	To buildles.	*** ·		. ***	Contract.	15
	Foresta	ļ	- 1	_	}	;		~			
	Paban Hides	•••	***	Do. 2	120		***	•••	***	Do.	12
	Hides Bark	***	***		8	•••	***	***	***	2	'
]	Fruit of date trees			1494	2		***	***	***	*****	:
	Babul and Kandi pocs.		•••	Contract.	· 800	•••	^ ***	•••	•••	Contract.	800
]	Pan • Grazing		***	*****	12 13,136		39	•••	2,632	###***	15,80%
•	-			5			39		2,032	*****	
	Total		284		16,532	•••	· 40	•••	2,632		19,488
. 1	Babul pods	•••	•••	Contract.	1,610	•••		•••	•••	••••	1,610
J	Kana Sur Kanh grass	•••	•••	Do. Do.	970 56	***	•••	•••	***	E4-***	970 56
1	Kann grass Babul seed •••	•••	51	10.	20	***	***	,	***	*****	71
]	Ber fruit		+	*****	.8	•••		***	***	*****	` 8
3	Dato fruit	***	***	••••	4	***		•••	···	*****	4
	Kanh grass bundles Babul and Kandi		300	*****	. 15	550"	31	***,	•••	550	· 34
J	Babul and Kandi branches.	•••	•••				***	***	**	•••••	
:	law brushwood	•••				70	4		•••	70	4
	Frazing	•••	. ***	*****	6,797	50 loads.	143	•••	907	*****	7,847
	M		4 / 0	*****	*****	no roags.	8	•••	***	50	. 8
	Manure						<del></del>			<del></del>	

^{*}This is exclusive of Rs. 36,761 on account of Sandalwood shown under Government Agency and Rs. 15,000, Rs. 1,80,000 and Rs. 8,00,387 on account of Bamboos, Minor Forest Produce and Grazing shown under Privilege holders in the statement for the Southern Circle in Chapter II. Section 5 (c) outturn and sources of forest produce.

н 1495—36.

APPENDICES.

FORM No. 20.—Outturn of Minor Forest Produce during the year 1915-1916—concluded.

	•			Рводис	E REMOVED	OR UTILIZ	ZED.			
Description of Produce.	escription of Produce. By Governmen Agency.		By pur	chasers.	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
SIND CIRCLE— continued.	Mds. B	Rs.		Rs.		Rs.	, .	Rs.	Mds. s.	Rs.
f Fruit of Miani Bunga-	Contract.	45	454.,,		•••	•••		*	Contract.	45
low garden. Juari produced in Bun-	1	10	*****	*****	•••	,t.e.	***		4 mds.	10
galow garden. Fruit of Mango Garden. Do. Kathri garden. Babul pods Kanh and Sor grass	Do.	190 150	Contract.	15,445 590	***	 	***		Centract. Do.* Do. Do.	190 150 15,445 590
Jaw brushwood Lopping of kandi, babul	40 bundles	10	450 bundles. 1,648	28 103	•••	***	•••	***	40 450 bundles.	110 28 103
and balan branches. Lac ' Grazing		•••	Contract.	. 525 .14,815	•••	1,948	•••	₁₁	Contract.	525 16,774
Total	•••	405	•••••	31,506	• • •	1,948		11	****	83,870
Babul pods			Contract.	.6,429		-				
Sur and Kanh grass Mango fruit Lac Grazing	• • • •	***	Do. Do. Do.	40 2 4,405 11,435	***	2,683		341	Contract. Dor Do. Do.	6,429 40 2* 4,405 14,459
Total	4.0		•••••	22,311		2,683		341	•••••	25,335
Total, Sind Circle	•••	740	******	79,829		4,855	•••	3,891	u. Vedyağ	89,315
GRAND TOTAL		97,978		7,20,017		11,745	·	3,95,066		12,24,806

FORM No. 21.—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 1915-1916.

Name of Division	or Bange,	Balance at commence- ment of	Received during	Total.	Disposed of during	Balance in hand at close of the year	Name of Division	1	Balance at commence- ment of	Received during	Total.	Disposed of	Balance in hand at close of the
	•	the year in Forests and Sale Depôts.	the year.		the year.	in Foresta and Sale Depôta,		•	the year in Forests and Sale Dopôts.	the year,		during the year.	year in Forests an Sale Depôt
1		*2	3	4	5	6 •	1		2	8	4	5	6
NORTHERN C		O. ft.	C.\ ft.	C. ft.	C. ft.	C. ft.	SOUTHERN CI	RCLE.	C. ft.	C. ft.	O. ft.	C. ft.	O, ft.
Ponch Maháls Surat North Thána Gentral Thána South Thána North Násik	800 bot 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 gas 000 ga	502	2,105 80,631 4,385 656 781	2,105 137,181 4,887 656 781	2,105 115,963 4,312 646 781	21,218 575 10	"Kánara, Northern Teak Blackwood Junglewood	Division	249,286 61,471 84,859	\$89,283 42,135 104,818	637,510 103,806 189,672	281,038 48,190 05,802	350,451 55,410 43,870
South Nasik	611 11	I # 450	692	8,145	859	7,286	i	Total	845,616	<b>5</b> 35 <u>,</u> 161	880,707	425,030	455,767
	Total	64,505	89,250	153,755	124,666	29,089	*Kanara, Eastern	Division—					• •
Fuel. Panch Mahals Surat	000 m	21,725	300 25,830	300 47,555	300 35,405	12,150	Teak Blackwood Junglewood	000 000 000 000	132,006 2,227 37,065	200,153 1,477 33,184	839,159 3,704 70,249	232,220 2,543 61,402	105,970 1,101 8,817
North Thána South Thána North Násik South Násik	981- B4 989 ** 898 ** 9-	962	1,050 3,640 2,430 65,494	1,412 3,640 2,430 74,749	1,309 3,640 2,430 74,189	103		Total	171,298	240,814	472,112	296,174(a	115,938
	Total .	31,312	98,744	130,086	117,273	12,813	•Kanara, Central  Teak Blackwood	E14 - 14		69,217 3,217 92,089	- 60,217 8,217	7,207 64	62,010 3,163
Minor Forest		Rs.	Rs.	Rs.	Rs.	Rs.	J unglewood	Total	<del></del>	165,429(a)	92,988 165,423	10,867 26,628	138,705
Panch Maháls Surat South Násik	***	1,156 584	5,430	6,586 1,324		5,258	*Kánara, Southern	n Division-			100,320	20,020	200,700
	Total,	C. ft.	c. ft.	7,928 C. ft.	2,670 C. ft.	6,258 C, ft.	Teak	994 H	321	• 6,298 11,821	6,609 29,886	346 23,806	6,26 8,68
Total, Northe	rn Ĉircle	95,847 + Rs. 1,740	. 187,994 · + Rs. 6,188	283,841 + Rs. 7,928	241,939 + Rs. 2,670	Bs.		Total	18,386	18,109	36,495	23,651 (a)	12,84
CENTRAL C	-	-	,,		<del></del>		*Kánara, Western	n Division-	-				
Timbe East Khāndesh West Khāndesh North Khāndesh	111 1 110 1	•• ••• •	138 1,440 39	1,537 1,440 39	1,440	***	Teak Blackwood Juuglewood	200. 2. 200 a. 240 44	774	34,675 1,871 24,006	42,645 2,645 59,822	41,062 2,304 50,253	1,599 263 9,00
, Kolaba Poona Sátára	000 T	220	1,012	1,082 4,728 37	889 4,672	173 56	·	Total	44,160	60,452	104,612	98,709 (a)	
	Total	1,696	7,147	8,843	7,379	1,464	Belgaum Division Teak Blackwood	204 91 206 ₁ 14	608	6,399 362 8,068	8,638 968 15,908	7,910 853 16,815	728 116 678
Firewood. Enst Khandesh North Khandesh Kolaba	410 0	80 1,755	52	3,800 52 47,825	3,720 23 42,874	4,951	Junglewood	Total		14,829	25,509	21,078	1,521
Poona Satera	pes 1	10,948 26,278	136,284 100,157	147,232 126,430	139,144 91,180		*Dharwar—Bijapu combined Divis	ur (nev sion—		,			
	Total	39,056	286,283	325,339	278,941	48,398	Teak Junglewood		1 -	8,562	6,902	2,926	8,976
Minor Fores	Produce.		Rs.	Rs.	Rs.	Bs.	[	Total	8,340	8,609	6,90	2,038	3,970
West Khandesh North Khandesh Kolaba Poona	L , 1000 1	000 ouf 100 E05 120 ppf 100 pp8	11,050 2,258 26 6,094	110,50 2,258 20 6,094	2,258 26	***	Total, Southern C Teak Blackwood	irole—	<b>. 6</b> 5,078	714,427 49,062	1,109,869 114,140	672,718 54,044	536,971 60,096
	Total		19,428	19,428	19,428	PTO	Junglewood	Total	138,230	274,958 (a) 1,099,877	1,681,947	285,441 692,203(a)	739,744
Famine Fo West Khandesh Koluba	···	101 005 .	36,760 846	36,760 846	36,760 846		Fuel.  *Kánara, Norther  *Kánara, Eastern	n Division do	• • • • • •	102,400	118,440 1,200	116,440	**************************************
	Total		87,606	87,606	87,606 C. ft.	C. ft.	*Kánara Southern *Kánara, Western Bokenum Division	do.	1,338 541,772	58,357 506,152 2,975,501	58,357 507,485 3,517,226	17,900 242,152, 8,045,109	40,365 265,338 472,115
Total, Cent	ral Circle	C. ft. 40,752	C. ft. 2,93,430 + Rs.	C. ft. 3,34,182 + Rs.		49,862 + Rs.	*Dhárwár—Bijápi	ur Division Total		17,028	4,217,736	3,437,478	7,80,25

⁽a) includes 57,954 oubit feet transferred to the new Kanara Central Division, on 1st February 1916, from Kanara Eastern, Southern and Western 2016, as nor G. O. B. D. No. 11396, dated 27th October 1916.

FORM No. 21.—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 1915-1916—concluded.

Name of Division or Range.	Balance at commencement of the year in Forests and Sale Depôts.	during	Total.	Disposed of during the year.	Balance in hand at close of the year in Forests and Sale Depôts.	Name of Division or Range.	Balance at commence- ment of the year in Forests and Sale Depôts.	Received during the year.	Total.	Disposed of during the year.	Balanco in hand at close of the year in Forests and Sale Depots.
1	2	3	4	5	6	. 1	2	3	4	5	6
SOUTHERN CIRCLE	Re.	Rs.	Rs.	Rs.	Ra.	SIND CIRCLE.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Sandalwood?				,		Sukkur	176	1,920	2,096	1,337	759
Kinara, Northern DivisionValue.	***	12	12	12		Lárkána	. 50	1,230	1,290	1,187	93
Kanara, Eastern Division	, .,,	2,395	2,395	2,395		Hyderabad	. 113	282	. 393	267	128
Kánara. Central Division	* ***	6,078	6,073	6,073	•••	Jeřrnek	•	1,122	1,122	.1,122	*****
Auara, Southern Division elgaum Division, Dharwar—Bijapur Di-	5 50	2,367 4,714	2,372 4,761	2,397 2,764	2,200	Total	339	4,554	4,893	3,913	680
vision		23,150	23,150	23,150		Fuel.			<del></del> ,	· · ·	
Total Value.	55	89,711	38,766	36,761	2,005	Sukkur	769	50,768	61,477	50,917	. 560
	<del></del>	<del> </del>	] <del></del>	<del></del>	<del> </del>	Lárkána	23,690	89,800	62,990	40,690	-22,300
	٥	}			}	Hyderabad	31,843	154,957	186,800	160,978	25,82
Minor Forest Produce.	-	}				Jerruck	963	41,299	42,262	40,262	2,000
elgaum Division 😁 Value.	181	1,125	1,306	798	510	Total	57,265	286,264	343,529	292,847	50,68
<i>:</i>						Minor Forest Produce.	Rs.	Rs.	Re.		
Drift and waif wood and confiscated Forest Produce.		ļ	ļ		<b>!</b>	SukkurValue		503	E62	Rs. 250	Rs.
		ĺ	į			Lárkána · ,	58	1,058	1,116	876	81
Kánara, Northern DivisionValue,		1	1	1	+=4	Hyderabad	26	724	750	744	24
Cáuara, Eastern Division ,	Ì	59	59	59		Jerruck		646	646	506.	
Kanara Central Division	,	22	22	·	22	,				200.	• 140 
Kanara, Western Division *** 99 elgaum Division ***	108 35	125 144	233 179	233 109	70	TotalValue	143	.2,931	3,074	2,376	698
Dhárwar—Bijápur Division atnágiri Division	•••	55	55 2	55 2		Total, Sind Circle	C. ft. 57,604	C. ft. 2,931	C. ft. 348,422	C. ft. 296,760	O. ft
Total	143	. 408	551	459	92.		+ Rs. 143	Rs. 4,931	Rs. 8,074	256,760 + Rs. 2,376	51,66: + Rs. 698
Total, Southern Circle	C. ft. 11,50,605	C. ft. 46,99,018	C. ft. 58,49,683	C. ft. 43,29,631	C. it. 15,20,002	Grand Total	· C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
,	+ Rs. 379	+ Rs. 47,214	Rs. 40,623	H Rs. 38,016	HRs. 2,607	SEAR AVAIL 19	10,22,008 + Rs. 2,262	54,71,260 + Rs. 1,06,397	68,16,128 + Rs. 1,08,659	51,52,700 + Rs. 1,00,096	16,63,426 + Rs. 8,563

FORM No. 22.—Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1915-1916.

Description of Timber		OF THE YEAR		On han	D AT CLOSE YEAR,	OF THE	DIFFER		
and other Forest Produce.	No.	Cubic feet.	Value.	Not	Cubic feet.	Value.	In favour of the year.	Against the year.	Romarks
1	2	ŝ	. 4	5.	6	7	8	9	10
NORTHERN CIRCLE.			Rs.			. Rs.	Rs.	Rs.	
Fuel Minor Forest Produce	***	64,505 31,342 	47,780 2,925 1,740	***	29,089 12,813	24,495 1,648 5,258	<b>3,</b> 518	23,285 1,27 <b>7</b>	Net difference against the year—Rs. 21,044
Total, Northern Circle		95,847	52,445	4#4	41,902	/ 31,401	8,518	24,502	
CENTRAL CIRCLE.  Timber.									
East Khándesh Kolába Poona Sátára	1,305 24 209 16	1,399 50 220 27	\$63 . 24 14 5	1,297 57 25	1,235 173 56	356 68 3	89	7  / 11 5	
Total, Timber	1,554	1,696	406	1,379	1,464	422	39	23	. , ′
Firewood.  East Kbándesh North Khándesh Sátára Kolába  Total, Firewood	4	1,755 10,948 26,273	658 674 1,580 2,924	4 1 	80° 29 4,951 8,088 35,250 48,398	12 10 1,818 505 2,150 4,495	10 1,160  570 1,740	169	_
Mhowra. West Khándesh North Khándesh	400	Lbs. 75,337 19,870	3,000 373	***	Lbs. 7,073 15,798	300 300	****	<b>2,7</b> 00 73	
Total, Mhowra	***	95,207	3,373	••••	22,871	600	•••	2,778	-
Seeds.  East Khandesh  Vest Khannesh  Coons  idtara	K. m. lbs. 4 3 19 1 5 26 54 3 0		***	K. m. lbs. 3 19 27 0 1 0 16 18 26 0 22 24	000 000 000	000 000 			-
Total, Seeds	61 1 21	•••	***	21 6 21	***	***	•••		Net difference against the year—Rs. 1,186.
• Total, Central Circle	***	•••	6,703	•••	***	- 5,517	1,779	2,965	
SOUTHERN CIRCLE.  Timber.	91,602	395,262	6,22,535	131,982	536, <b>9</b> 71	8,70,167		tpå	
eak lackwood	3,439 5,410	65,078 133,230	77,480 1,06,586	4,051 5,606	60,096 142,677	43,942 1,17,949	•••		
Total, Timber	1,00,451	593,570	8,06,001	141,639	739,741	10,32,058	225,457		
nel ··· ··· ···		557,095 ————	41,962		780,258	50,985	9,023		
andalwood ••• Value.	•••	. ""	. 55	***	***	2,005	1,950		
linor Forest Produce Value.	•	•••	181	•••	•••	510	829	***	
Confiscated Forest Produce	•••	•••	143	***		92	•••	51	· ;
Total, Southern Circle	•••		. 8,48,942	***	***	10,85,650	2,36,708	4	Net difference in favour of the year —Rs. 2,86,708.

FORM No. 22.—Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1915-1916—concluded.

		O AT COMME		On han	D AT CLOSE YEAR.	OF THE	Differi Val	nce in Ue.	
Description of Timber and other Produce.	No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favour of the year.	Against the year.	Remarks.
1	2	3	4	5	6	7	. 8	9	10.
SIND CIRCLE.			Rs.	•		Rs.	Rs.	Rs.	
Timber.	1					]		}	,
Babullogs	13	134	33	' 21	107	26.	•••	•	
Tzi loga	8	8	<i>,</i> , , , 6,	•••		•••	•••	***	
Kandi logs	. 46	50	13	. 71	213	40		•••	
Asri logs	, 1	.8	1	. 76	192	. 24	•••	•••	·
Jaw rafters	211	105	7	340	181	42	·	•••	
Bahan posts	15	15	4	15	15	. 4	, <u>, , , , , , , , , , , , , , , , , , </u>	ļ	ļ.
Kandi cart axles	9	ِ و	. 3	ı'	1	•••	•••	***	,
Babul cart axles	15	15	· 4	7	. 7	2	•	***	
Kandi stakes '		•••	•••	4	2	•••		***	}.
Bahan logs 🛺 👊				26	78	19	***		
Bahan Varas	•••			1	3	1	,		
Lai props	•••		#84	8	24	3	***		
Khandi props	•••	***	***	26	78	15			
Lai Manghas	***	•••		80	40	2			
Kandi Varas	•••	•=•	Rap	4	12	3	***	100	,
Lai Varas		***	***	9	27	8	•••		
Total, Timber •••	319	339	71	689	980	184	113		d'
					300	103	113		<u>,</u>
•	4			}			·		
Firewood and Charcoal.	Mds.			Mds.	}				<b>,</b>
Loco-fuel	***	55,917	1,602	•••	49,805	1,665	•••	***	1
Firewood ••• •••	200	1,348	19	130	877	25	•=•	***	
Total, Fuel	200	57,265	1,621	130	50,682	1,691	70	•••	,:
Minor Forest Produce.	Mds.		<del></del>	•				•	•
Babul, Kandi and other seeds	l	,	143	934	:	697	<b>.</b>		
Jam brush wood			,	20	•••		•••	***	
			•••• 	20		1	{ ••• }	•••	
Total	159		143	954	,	698	***	, •••	Net difference in favour of the year-
Total, Sind Circle	159		1,835		ļ	•	<del></del>		Rs. 738.
Grand Total	100		[	***		2,573	738		
WHALL EVILLE		. <b>***</b>	9,09,925	•••	•••	11,25,141	2,42,743	27,527	Net difference in favour of the year—Rs. 2,15,216.

### APPENDICES.

FORM No. 23 .- Abstract showing the value of the Live and Dead Stock for the year 1915-16.

		r commence- The year,		nd at thr yeab.	Difference	IN VALUE.	
_ Description of Live and Dead Stock.	No.	Value.	No.	Value.	In favour of the year,	Against the year.	Romarks.
. 1	. 3	3	4	5	.6	7	8
NORTHERN CIRCLE.	-	Rs.		Rs.	Rs.	Rs.	
Live Stock.		. }	• .	.•		:	١.
Bullocks	4.	394	3	294	•••	100	
Dead Stock.	-				•		
Buildings Tents and rahutis Stores, tools, plant and office	282 34*	2,95,116 4,500*	284 34	2,9 <b>7,153</b> 4,400	2,087	100	Mistake cor-
furniture	•••	63,835	6	63,987	152	•••	•
Remington Typewriters Empire Typewriters	6 4	800	8	600	•••	200	,
Copying machines Cyclostyles	8 7	• • •	8 7	***	•••	***	
Carts		133	7 111	133	***	•••	
Hay presses Steel wire Ropes	•••	***	12	•••	•••	•••	•
Total, Dead Stock	348	3,64,384	472	3,66,278	2,189	800	
Total, Northern Circle	. 352	3,64,778	475	3,66,567	2,189	400	Not difference in favour of the year—
							Rs. 1,789.
CENTRAL CIRCLE.  Dead Stock.			Live	Stock—Nil.			•
	. 146	1,70,152	147	1,71,724.	1,572		
Buildings	. 8	2,140	8	2,138		2	
Rahutis (Kabul pal fan)	80	2,100	27	2,172	72	•••	
Tools, plant and office furniture	1 .	33,775	•••	34,598	823	•••	•
Remington Typewriters	. 8*	,	9*	•••	/		* Price nos known.
Empire Typewriters	1*	900'	2*	•••	•••	•••	.1
Copying machines	. 5*	•••	5*	•••	•••	•••	•
Cyclostyles ••• ··· ••	4*	•••	·5 <b>*</b>	4	. •••		
Boat with fittings	. 1	1,371	1	1,371	•••	•••	
Boon furniture		815	***	700	•••	115	
Total, Dead Stock	201	2,10,353	204	2,12,703	2,467	117	Net difference in favour of
Total, Central Circle	201	2,10,353	204	2,12,703	2,467	. 117	the year— Bs. 2,350

FORM No. 23 - Abstract showing the value of the Live and Dead Stock for the year 1915-16-concluded.

p <b>or</b>		COMMENCE-	ON HAND A	AT CLOSE YEAR.	Differ Vai	ence in	
Description of Live and Dead Stock.	No.	Value.	No.	Value.	In favour of the year.	Against the year.	Remarks.
1	2	3	4	5	. 6	7	8
SOUTHERN CIRCLE.		Rs.		Rs.	Rs.	Rs.	
Live Stock.			•~				}
10 62 . 1	52	6,000 2,690		2,952	•••	•••	*Were sold for Rs. 6,500.
Total, Live Stock	54	8,690	57	2,952	•••	5,738	ļ
Dead Stock.							
D1131	382	2,96,357	392	3,02,314			
Tents	9	2,212	9	2,212	)		}
Maria alama am da Mara faran itana	20	1,732 91,860	22	1,838 90,082	•••	•••	•
///	7		10	•••		}	
Duplicators	6	95 906	6	95 200	••	•••	{
(11-	29	25,382 1,816		25,382 2,162		•••	1
^	4	138	4	<b>13</b> 3	· · · ·		(
	1	129 535		129 <b>53</b> 5		•••	
Iron safes	···	300	•	000			.}
Total, Dead Stock	462	4,20,156	486	4,24,787	4,631		
Total, Southern Circle	516	4,28,846	543	4,27,739	4,631	5,738	Net difference against
SIND CIRCLE.  Live Stock.							the year—Rs. 1,107.
Bullocks Camels	12	<b>27</b> 4 <b>1</b> ,390		246 1,160		•••	
Total, Live Stock	. 48	1,664	43.	1,406	•••	258	
Dead Stock.	\		- <del></del>	<del></del>	<del></del>		- 1
	103	49,409	96	47,764	•••	•••	
Tents	14	2,954	14	2,954	•••	•	
	646	5,361	643	5,346	•••		
Tools, plant and office furniture	2,699	13,344	2,533	<b>13,</b> 896	•••		
Remington Typewriters	5	•••	5	•••		•••	Net difference against the year—Rs. 1,159.
Empire Typewriters	. 1	•••	1		•••	•••	
Copying machine	1	•••	1	•••		•••	
Miscellaneous	467	1,401	522	1,403	•••	•••	
Iron safes			1	201	•••	•••	
Total, Dead Stock	3,936	72,468	3,816	71,564	•••	901	
Total, Sind Circle	3,984	74,129	3,859	72,970	•••	1,159	
GRAND TOTAL	5,053	10,78,10	5,081	10,79,979	9,287	7,414	Net difference in favour of the year-Rs. 1,873.

FORM No. 24.

· · · · · · · · · · · · · · · · · · ·		- CRIM IVO. DI.		<u> </u>	
Budget Head.	Direction.	North Thána Division.	Central Thána Division.	South Tháns Division.	Panch Mahále Division
NORTHERN	Rs. a. p.	Re. s. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
CIRCLE.  REVENUE.  L-Timber and other					
Produce removed					
Government Agency—	400400	1,180 4 0	142 4 0	107 8 0	161 10 0 3·12 0
b. Firewood and charcoal	*****	68 15 0	*****	490 8 6	563 14 0
d Sandalwood	*****			*****	******
f. Famine fodder	******	*****	***	598 0 6	728 4 0
Total, I	*****	1,249 3 0	142 4 0		
*II.—Tim'er d other Produce removed from the 1 rests by Consumers or Pur-				, ,	
chasers-	<b>901111</b>	5,83,289 0 3	2,36,882 15 1	1,91,283 9 9	79,667 3 1
charcoal	8000 ¹⁰	421 14 1 9,414 6 10	552 11 8 3,049 5 0	261 9 6 62 2 0	509 2 6 1,637 0 0
d. Grazing and fod-		6,122 5 0	3,690 13- 0	2,619 6 0	12,428 7 8
duce	999000 999000	123 12 • 0	<b>9,976 10 6</b>	8,560 12 9	: 11,195 3 0
g. Commutation			#9X*A*	******	*****
Total, II		5,49,511 6 2	2,49,046 6 10	1,97,787 7 6	1,05,484 15 10
III. Drift and Waif Wood and Confiscat-			140	8 14 .0	**********
ed Forest Produce Total, III	44744	7 6 0	1 4 0	8 14 0	*****
IV.—Revenue from Forests not managed by Government— a. Duty on foreign					
timber and other forest produce b. Revenue from	<b>007</b> 014		434.004	hearen	******
shared and pri- vate forests	******		428 14 1	86 3 4	*****
Total, IV		******	428 14 1	26 3 4	100.00
VMiscellaneous- a, Fines and forfei-	{ _ {	· •	·		
tures	390 12 0	814 7 6 188 0 6 2,407 2 8	2,729 12 1 2 5 0 3,694 11 0	1,372 8 0 107 13 11 3,577 4 9	71 14 0 17 15 7 7,769 8 9
c. Other sources Total, V	· 380 12 0	3,409 10 3	6,466 12 1	5,057 10 8	7,839 8 4
Grand Total, Revenue.	\$80 12 0	5,54,097 9 5	2,56,085 9 0	2,03,468 4 0	1,14,028 10 2
expenditure.	}		<del></del>		
A.—Cometryancy					
1.—Timber and other Produce removed					
from the Forests by Government Agency -	}				
b. Firewood and	P10100	229 9 0 5 2 0	59 0 0	203 4 6	91 0 0
c. Bamboos d. Sandalwood	**************************************		*****	******	******
e. Grass and other minor produce f. Famine lodder	700 0 0	A00000	***************************************	443.004	******
Total, A-I	782 10 0	234 11 0	89 0 0	346 0 0	94 19 0
II.—Timber and other Produce removed from the Forests by Consumers or Pur-	\- ·				
chasers :	228 11 0	19,006 0 1	4,444 8 8	4,103 2 2	2,992 1 11
Total, A-II	228 11 0	19,008 0 1	4,444 8 8	4,198 2 2	2,982 1 11
III — Drift and Waif Wood and Confiscat- ed Forest Produce		2 6 0	10 0 0	5 12 0	060
Total, A-III		2 6 0	10 0 0	5 12 0	0 8 0
IV.—Revenue from Forests not managed by Government— a. Duty on foreign					
timber and other	' <b> </b>	100,000			400414
. forest produce  b. Revenue from shared and pri-			}	, , ,	· ·
	********	******		Spu \$00	*****

### different Divisions for the Forest year 1915-1916.

North Nasik Division.	South Násik Division.	Snrat Division	Working Plaus Division.	South Násik Famine Fodder Division.	Direction Famino Fonder Division,	Total for the F. rest year 1914 1915.
Es. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Ks. a. p.
# PA	}	•	1 .		· [	
٠,	,	·		. ,	·	
Pho 200	8 8 0	1,55,928 10 0			, ,	
95 8 0	1,092 11 3	3,272 8 0	804040	******		1,57,528 12 0
100-50 00440	86 8 0	******	*****	******	710 000 710 000	5,022 9 9 650 6 0
******	8,148-13 1	******	5 *******	11111	68,120 4 0	8,149,13 1
95 8 0	9,336 8 4	1,69,200 13 0	******	******	68,120 4 0	68,120 4 0
						2,89,470 12 10
			٠.			
836 0 0 6,502 2 3	99,248 8 0 3,250 10 3	50,325 9 9 256 10 0	****	******	*****	11,91,532 13 11
33 0 0	6,174 4 0	13,162 12 8.	****	*****	******	11,754·11 4 34,426 14 6
<b>38,058 13 6</b>	87,212 14 0	2,756 4 0	*****	419700	*****	1,02,886 14 9
5,346 14 0	7,514 10 0	4,206 4 11	*****	*****	******	85,924 8 2
			F10.140	***	******	******
50,776 18 9	1,63,400 14 3	70,707 9 4	120,00	******		18,70,525 9 8
	] :	l .				; 
77 10 3	261 9 8	10 11 0	*****		*****	367 6 6
77 10 3	261 9 3	10 11 0	****	*****	10,171	8(7 6 6
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eseare			******			******
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		61 11 6		·····	******	526 12 11 526 12 11
415 0 0	1,793 5 0	757 12 6			} ·	7,991 11 1
0 13 1 8,453 13 5	24 12 6 3,624 15 4	530 3 3 1,334 5 2	3 8 1	**************************************	******	871 15 10 81,245 11 U
8,869 10 6	5,443 0 10	2,622 4 11	3 3 1			40,112 6 8
59,819 10 6	1,68,442 0 8	2,32,603 1 9	3 3 1	*****	69,120 4 0	16,57,003 0 7
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•	•	}			) 1	•
,	• ,	}	}		<u> </u>	
	<i>5</i> 1 5 0	51,092 12 1	******	*****	••••	51,639 10 7
36 8 0	580 9 9 15 6 0	841 2 3	P4P40*	*******	******	1,097 I 6 15 6 0
*****	******	******	140114	******		2,714 8 7
180	1,439 5 7	. 573 6 0	1010/8	******	1,53,329 10 4	1,53,362 4 4
38 0 0	2,083 10 4	52,507 4 4	******		1,53,329 10 4	2,09,428 10 0
1						
275 3 9.	2,420 1 6	5,905 13 7	******			. 89,560 10 8
275 8 9	2,420 1 6	5,005 13 7				. 88,660 10 8
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401444	*****	*****				
						04-0700
*****	**4 190	*10 (31				******
991 =64	*****		******	*****	******	*******

	·	FORM 110, 23.	-Summary of A	1	· · ·
Budget Heads.	Direction.	North Thâna Division,	Central Thána Division.	South Tháns Division-	Panch Maháls Division.
EXPENDITURE—con- tinued. A.—CONSERVANOY AND	Re. a. p.	Rs. a. p.	Ra, a, p.	Rs. a. P.	Re, a. p.
WORKE-continued.  YRent of leased Foreste and Payments to Shure-kolders in Forests manage				450 11 8	g 2004 <b>0</b> 0
ed by Government		******	**************************************	450 11 8	*****
· Total, A-V ····  VILips-Stock, Stores,	. 11(11)				
2 cole and Plant—	. 100,000		Many	4	90E NO
a Food and keep of	411300	,,,,,,,,	******	& Dec 400\$	81 8 8
s, Purchase of stores, tools and plant	1,685 13 6	780	7 8 5	801 11 0	21 1 0
Total. A-VI	1,685 13 6	7 6 0	7 8 5	801 11 0	109 9 8
PII.—Communications and Buildings—				}	
o. Roads and bridges b. Buildings c. Other works	600,004 800,000 800,000	297 14 0 609 8 2	1,197 0 6 892 5 6 20 4 6	49 6 0 2,333 10 6 300 9 6	16 0 0 281 9 0 217 10 6
Total, A-VII	****	907 6 3	1,519 10 6	2,317 9 6	514 8 6
VIII.—Organization, Im- provement and Extension					•
of Forcet—  a. Demarcation b. Cost of Forcet Settle- ments and Compen-	***************************************	878 <u>1</u> 4   0	463 7 0	223 6_8	43 18 4
ention for land and	Ann 168	250	*******	******	45 8 10
e. Burveye &. Working-plans	8 9 100 830 400	510 2 1	442 9 2	885 6 10 79 6 0	108 6 0 669 14 9
e. Sowing and planting  f. Protection from fire  g. Other works	96 0 0	1,093 15 10 3,215 10 0 539 0 0	455 7 10 4,894 4 4	79 6 0   8,839 6 6   21 2 0	3,519 B B 10 0 0
Total, A-VIII	96 0 0	6,287 14 11	8,355 13 4	4,547 18 7	·4,893 14  7
IX.—Miscellansous—				}	
5. Other charges	203 8 0	8 6 0 1,831 16 10	3,021 1 0	2,855 14 11	2,838 13 · 6
Total, A-IX	293 0 0	1,835 4 10	2,091 1 0	2,555 14 11	2,838 12 6
TOTAL, ACONSERVANCY AND WORKS	2,896 10 6	28,281 \$ 0	14,817 8 11	14,923 10 5	10,926 11 9
B.—Establishments.	ł	ŀ			
I.—Seleriès—  G. Conservators  B. Superior Officers  S. Subordinate Forest and Depôt Establish	17,916 10 8 256,14 2	24,595 0 21	10,603 0 0	18,719 6 7	18,321 8 11
monte  d. Office Establishments.	7,954 18 8	24,836 5 1 6,346 10 5	24,950 7 8 6,261 2 10	29,570 7 10 5,877 18 1	20,968 7 0 6,831 1 5
e. Deputation and Special Allowances Exchange Compense.		96 2 0	561 9 11	840 8 8	. 314 6
tion Allowance— 1. Conservators 2. Deputy Conserva-	*****	****	e9e14g	\$	440.000
2. Deputy Conserva- tors 2. Assistant Conser-	.1	****		*****	******
vators		•••••	*****	<b>#11100</b>	PR0400
Conservators	******		100000	*** **	<b>000 100</b>
Total, B-I  II _Travelling Allow-	20,028 8 1	46,874 2 5	43,865 4 0	85,008 1 3	40,528 10 10
ances— a. Conservators b. Superior Officers c. Subordinate Forces	2,482 12 11 15 5 0	2,372 9 6	1,891 6 8	2,618 10 2	2,784 12 4
and Depôt Estab- lishments d. Office Establishments. e. Forest School (Dehra-	1,081 3 0	1,618 d 8 933 7 2	2,589 <b>7</b> 5 795 12 9	2,194 8 7 669 6 11	2,406 4 4 682 9 10
Dun)	, , ,,,,,,	<b>***</b>	414100 <u>,</u> 604400	217 5 0 26 0 0	9 8 0
Total, B-II'		5,949 1 4	5,246 10 10	5,839 9 8	, <b>5,928 3</b> ө
III.—Confingencies—,	84 8 0	324 7 8	843 15 g	-	* ***
5. Carriage of Tents and Records	260 7 8	208 1 1	499 10 8	887 12 6 3 225 0 8	80A 8 8 848 0 4
e. Rents, rates and taxes		830 0 0		754 2 10	18 0 0
d. Pay of Police Guards. c. Official postage f. Sundries Payments to Officers of	l ·	1,016 6 0 350 2 4	960 <b>3</b> 6 840 9 8	1,037 9 6 293 5 0	998 14 0 515 4 8
other Provinces Total, B-III	1,990 0 7	2,717 1 1	2,144 5 1	9 807 1A B	P 204 1E 9
Total, B.—Betabline- Mart		54,589 4 10	49,758 4 11	2,697 14 8 68,825 0 1	2,203 15 8 48,640 18 7
GRAND TOTAL OF EX-		82,820 7 10	64,078 13 10	78,440 \$ 8	59,576 8 4

different Divisions for the Forest year 1915-1916-contd.

North Násik Division.	South Násik Division,	Surat Division.	Working Plans Division.	South Nasik Famine Fedder Division.	Direction Famine Fodder Division,	Total for the Forest year 1014-1015.
Re. a. p.	Re. a. p.	Re. c. p.	Re. a. p.	Rs. a. p.	Rs, a, p.	Rs. a. p.
	•		•		}	
******	4,477 8 0	17,999 11 8	12444	******	*****	22,037 14 11
	4,477 8 0-	17,000 11 8	******	******	P1 104	28,027 14 11
rusteh	****	800 0 0	****	491754		. 300 8 <b>8</b>
24 0 0	187 15 0	1,050 11 4.	000 sea , 200449	474,,,	******	8,445 4 8
24 0 0	187 15 0	1,868 11 4	F2: 0.00	*.'	******	9,685 12 0
 5	1,904 9 9 188 12 0	15,554 10 1 7,180 4 2	e shriqe '	41111	160911	19,077 8 4 10,703 0 10
a., pa,		837 11 10	*****		197901	1,126 8 10
5 5 6	2,091 5 9	28,551 10 1		744411	47510,	80,007 8 0
	•		•		]. ]	-
-106 7 8	54\ B G	139 15 3	*******	•••••		2,462 6 7
	į	730 6 11	}		}	766 15 9
812 0 2	783 14 0	910 6 6	138 8 0	# 10 44# # 10 44# # 10 44*	/*************************************	8,592 15 g
57 0 0 58 1 <b>4</b> 6	1 1 2 3 0 1 3 25 2 0 1 1 3 2 5 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,752 9 7 <b>0</b> ,165 <b>15</b> 0	******	. #####	414711	.4,315 9 0 29,018 18 0
687 1 5	2,789 O 6	9,962 8 6	133 8 0	444.44		920 8 9 35,126 4 10
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005100	/1 198946	1 8 0 1,901 2 9	414.11	110 41	Poblace	208 6 0
1,453 0 6 1,453 0 <b>6</b>	2,060 6 0	1,901 2 9	0 14 0	11145	*****	14,663 2
	<del></del>		<del></del>			<del></del>
2,402 11 2	16,128 6 1	1,12,298 6 8	134 1 0	***************************************	······	3,55,003 15 5
	· ·		•	(		17,816 10 8
5,199 5 4 16,453 2 6	14,748 0 0	10,953 5 4	6,913. 7 2	#10.498 #03.491	- 642015	1,01,198 11 5
4,808 6 9	25,149 12 8 5,934 9 9	22,101 7 3 0,534 0 2	928 0 0 1,349 5 8	,c,240	******	1,05,158 1 7 g. 51,386 . 1 2
******	780 6 8	9,002 5 8		414.14	*****	10,323 12 0
****	,,,,,,,,			100 234	4*****	440 240
en mi	41****	******	******	495114	,,, <del>,,,,,</del>	, ******
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******	sys =10	104355	411148	*****		919749
26,418 14 7	46,762 12 8	53,(81 2 5	9,190 12 8			3,45,883 4 10
, ,	4.01.044	,		000100		2,482 12 11
1,288 8 4	2,578 2 8	2,718 0 0	1,916 12 0	535444	] ' <b></b> ]	18,111 19 8
1,684 4 6 490 18 1	2,383 5 <b>7</b> 467 0 8	8,152 8 7 992 8 1	182 18 5 663 5 4	** ***	201,000	17,276 0 1 6,676 1 10
	, ,,,,++4	90 5 2	444+++	*****	******	407 10 2 419 9 7
81 4 6	206 18 1		******	*****		45,367 0 8
9,542 9 5	6,633 6 0	6,948 5 10	2,662 14 0		***************************************	40,557 0 0
188 1 11	338 <b>6 11</b>	255 1 8	19 1 6	(	**	2,105 1 10
99 15 6	186 1 0	454 0 1	187 9.6	. 441	*****	2,402 13 1
54 0 0	36 0 0	2 0 0	* ****** *******	970 <b>464</b> 911 ⁹⁵⁹	#**### ###############################	6,591 11 0
570 1 6 138 8 0	708 8 6 379 3 6	800 13 0 685 14 10	30 0 0 61 4 0	******	*******	2,909 2 1
211.410	470111	9 104 2 9	200 15			10,705 1 3
1,059 5 11	1,649 3 11	2,104 3 2		<u> </u>		4,08,045 6 4
81,050 13 11	54,016 6 7	62,783 11 5	12,154 10 5		<u></u> -	4,00,010 0 4
	1 1		1		1,53,320 10 4	7,03,789 6 9

Badget Head.	Direction.	North Khándesh Division.	West Knåndesh Division.	East Khándesh Division	Kolnba Division.
CENTRAL CIRCLE.	Rs. a. p.	Rs. a. p.	Rs. s. p.	Rs. s. p.	Rs. a. p.
revenue.	•		•		
I.—Timber and other Produce removed from					
the Forests by Govern-				, '	,
ment Agency—  G. Timber	,	900	72 0 0	21 0 0	310 5 0
. Firewood and char-	649000 670		41194		5,31 <b>9 9</b> 0
c. Bamboos d. Sandalwood	60.0000 515.000	84 2 4	******	100	400,400
e. Grass and other minor produce	• ·····	2,258 13 6	11,050 0 0	045141	28 0 0
f. Famine fodder		2,351 15 10	11,122 0 0	23 0 0	5,656 14 0
Total, I  II.—Timber and other	, 000111		11,122 0 0		
Produce removed from the Foresty by Consum- ers or Purchasers—			•/		
a. Timber 5. Firewood and char-	630,700	19,494 9 2	1,02,257 6 0	11,349 14 0	1,43,505 4 0
coal	000 pps.	5,548 10 6 381 14 0	4,022 8 0 846 4 0	20,141 2 6 7,444 0 0	665 Q O
. d. Grazing and fodder-	****	<b>85</b> ,636 <b>10 6</b>	<b>24,</b> 952 <b>6</b> 8	86,408 8 2	15,638 4 0
e. Other minor pro- duce	Mouse	1,797 18 0	3,424 7 6	2,538 1 9	3,579 0 0
g. Commutation fees .	*****	\$11100 211100	10.110 11.110	01100	41116 111111
Total, II	100110	62,859 9 2	1,35,003 0 2	1,27,872 4 5	1,63,387 8 0
III.—Drift and Waif					
Wood and Confiscated Forest Produce		223 9 9	256 2 9	233 12 9	730 \$ 7
Total, III	*****	223 9 0	256 2 9	233 12 9	730 8 7
IV.—Revenue from For- ests not managed by Government—			• -		
a. Duty on foreign timber and other		· ~	-		
forest produce 5. Revenue from shared		2,890 13 0	. ******	2,616 0 0	
and private Forests	44144	\$6g168	, stores		137 1 10
Total, IV	*****	2,890 13 0	******	2,616 0 0	137 1 10
FMiscellaneous-					
tures	 1 4 0	570 6 0 24 6 1	894 4 0	2,684 12 7 3 2 0	1,493 0 0 11 4 8
c. Other sources	<u>-194 8 0</u>	6,826 14 7	9,137 7 6	6,748 7 4	7,264 5 11
Total, V	<u>-192 15 0</u>	9,921 10 8	10,031 11 6	8,436 5 11	8,758 10 7
Grand Total, Revenue	-192 15 0	76,747 10 8	1,56,412 14 5	1,39,180 7 1	1,78,669 6 0
expenditure.		•	·	ļ . • •	
A.—Combervancy and Works.				İ	-
L. Timber and other Pro- duce removed from the					}
Forests by Government Agency—				•	·
e. Timber b. Firewood and char-	eo-tag	. 180	50 \$ 000	412304	71 2 8
c. Bamboos d. Sandalwood	******	10 15 0 45 15 6	******	69 12 0	3,486 8 9
s. Grass and other minor produce		1,529 15 9	5,903 1 8	******	900-064
f. Famine fodder	410.139 410.418	1,029 10 9	<i>5,903</i> 1 8	\$1440E	949495
Total, A-I		1,588 6 3	5,908 1 3	69 12 0	3,557 11 0
II.—Timber and other Produce removed from the Forests by Con-			,		
sumors or Purchasers.	. ",	5,503 1 6	2,577 4 8	2,427 14 4	<b>3,84</b> 5 18 <b>6</b>
Total 4-11	******	5,503 1 6	2,577 4 8	2,427 14 4	8,845 I3 6
III. Drift and Waif	•	; ; ·		· — <del> </del>	,
Wood and Confiscated Forest Produce	204146	860	gag boo	4 8 0	27 5 11
Toal, A-III	•••••	3 6 0	719111	4 3 0	27 5 11
IV.—Revenue from For- ssts not managed by Government—			•		
a. Duty on foreign timber and other		ĺ	,		
forest produce b. Bevenue from shared	*****		******	*****	****
and private For-		*	******	<u> </u>	•
CSGA see see				277740	440000
Total, A-IV	P9014g	44444	919191 2 74	45.100	*******

# different Divisions for the Forest year 1915-1916-contd.

	T	1		4.	
Sátára Division.	Poona Division.	Working Plans, Central Circle, Division.	West Khandesh Famine Fodder Division.	Kojába Famine Fodder Division.	Total for the Forest year 1915-16.
Re. a. p.	Rs. c. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
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12 8 0	490 0 0		1		,
500.006	482 3 6 9,184 6 0	******	*****	144114	907 0 6
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90170 <b>0</b>	6,094 2 8	******	******	\$0.200 \$0.200	480 14 0 19,429 0 2
12 8 0	16,250 10 2	******	36,760 9 7	846 1 9	87,606 10 9
			00,700, 0 7	816 1 2	80,746 3 11
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7,887 4 3	24,981 2 6		107310	*****	8,09,409 7 11
316 8 0 123 12 0	40,514 8 9	000 PPE	*****	199,14	71,208 5 9
29,835 9 6	4 10 0 53,045 5 6	. ******	Photos .	849448	8,300 8 0
6,864 15 0	5,812 8 9	#00 -40 #11446	*******	essi <b>os</b> Théasa	2,45,510 7 4
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245 11 6	551 3 9		******	****	2,240 12 1
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400104		1			
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11414	22 5 7	*****	******	******	5,166 4 5
191 0 0	66 <u>0</u> 6 0	******	} *******	******	6,483 12 7
5,418 8 1 ,5,418 8 5	2 0 8 20,904 8 10	0 1 0	*****	311400 010300	43 9 5 56,605 18 7
5,610 11 5	21,566 15 6	0 1 0	*****	****	63,183 8 7
68,621 7 10	1,62,779 6 6	0 1 0	86,760 9 7	846 1 2	. 8,09,825 1 0
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52 14 0 4,233 2 3	7 2 0 1,158 15 0	*****	sac+oé	· · · · ·	139 10 8 8,959 5 0
******	1 8 0 17 11 0	**************************************	01010 410100 101010	611104 611104	47 7 6 17 11 0
140,000	1,792 9 1		52,540 7 9	ft\$200	9,225 10 1 52,692 10 9
4,286 0 8	2,977 13 1	******	52,540 7 9	152 8 0	71,075 6 7
65 8 9	493 6 3		*** 400 405 ** ** **	, , , , , , , , , , , , , , , , , , ,	14,412 12 0
65 8 9	493 6 3	44444			14,412 12 0
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000100			*******	008 ssa	<b>007</b> aa <b>1</b> aya <b>100</b> a

FORM No. 24.—Summary of Revenue and Expenditure of the

					<del></del>
Budget Head.	e. Direction.	North Khandesh Division,	West Khándesh Division.	East Khándesh Division.	Kolába Division.
EXPENDITURE—	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. s. p.
continued. .—Conservancy and Works—continued.				•	
-Rent of leased Forests and Payments				·	
to Shareholders in Forests managed by	'	}	ľ		}
Government	41,106	41000	41.000	#44* .	6,691 12 11
Total, A-V	******	411470	411440	******	6,691 12 11
I.—Live-stock, Stores, Tools and Plant— g. Purchase of			•		-
cattle b. Feed and keep of	*****	****	******	. 953340	******
cattle	*****	941 100	******	***	696 ¹⁰⁰ .
tools and plant	4 12 Q	157 3 0	233 15 6	142 6 0	0 12 0
Total, A-VI	4 12 0	157 3 0	233 15 6	142 6 0	0 12 0
II.—Communications uid Buildings—			· ·		<del></del>
z. Roads and		0 000 14 9	010.11.0	3.000 0 0	
Bridges b. Buildings	**************************************	2,293 14 3 980 7 9 .	813 11 3 819 13 9	1,220 9 0 595 6 <b>5</b>	84 14 0 326 5 11
o. Other works		*****	175 0 0	******	******
Total, A-VII	65,010	3,274 6 0	1,808 9 0	1,815 15 5	411 8 11
l II.—Organization , Improvement and		_			}
Extension of Forest—	*******	38 <b>7 0</b> 0	493 2 0	251 12 10	2,729 15 9
Cost of Forest Settlements and					, ,
Compensation for land and rights	**************************************	050***	92 0 0	torneft	1,224 11 11
e. Surveys d. Working Plans	*****	620 <b>9 9</b>	258 1 4	580 9 3	474 4 9
e. Sowing and Plant-	****	9 11 6	177 5 0	101 11 9	
f. Protection from	******	7,840 9 7	4,506 18 0	3,071 6 9	689 11 9
g. Other works	140-14	.,	4,000 10 0	0 4 0	2,739 6 0 6 4 0
Total, A-VIII		8,757 14-10	5,527 5 4	4,008 12 7	7,864 6 2
CMiscellaneous-			******	440149	****
b. Other charges	· · · · · · · · · · · · · · · · · · ·	1,020 2 1	1,245 10 9	2,293 14 4	3,818 13 8
Total, A-IX  OTAL A.—Conser-	******	1,020 2 1	1,245 10 9	2,293 14 4	3,818 13 3
VARCY AND WORKS	4 12 0	20,304 7 8	17,295 14 6	10,762 13 8	25,717 14 8
-Establishments. -Salaries-			}	•	_
<ul><li>a. Conservators</li><li>b. Superior Officers .</li></ul>	19,877 6 9 900 0 0	9,914 10 8	10,014 13 6	10,477 5 4	
e. Subordinate Forestand Depôt			10,012 10 0	10,477 0 4	10,554 14 9
<ul> <li>Establishments</li> <li>d. Office Establish-</li> </ul>	140,445	20,317 15 4	22,480 2 5	29,559 14 0	89,337 3 10
ments	8,850 8 3	6,104 6 9	5,283 3 2	6,460 7 8	8,344 11 4
Special Allow-	6,765 14 5	0.000 E 0	2000 -		
f Exchange Com-	~ €,705 14L B	2,020 5 O	2,090 5 8	. 46108	126 10 6
pensation Allow- ance—		<b>*</b>			•
pensation Allow- ance—		<b>25</b>	ism		
nce—  1. Conservators 2. Deputy Conservators	**************************************			*****	·
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators	. ' 1	418429	202012	elram	416
1. Conservators 2. Deputy Conservators 3. Assistant Con-		*1840*	***************************************	**************************************	41610¢
pensation Allowance— 1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant	618.000	**************************************	202012	01 F t t t 1 T T T T T T T T T T T T T T T T	010+06 010+06 000+16
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I	000 000 0 000 000 0 000 110	114197 201100 201100	**************************************	**************************************	erosob orbibb dobasa
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I	35,393 13 5	114197 201100 201100	**************************************	01 F t t t 1 T T T T T T T T T T T T T T T T	erosob orbibb dobasa
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I 4.—Travelling Allowances— 5. Conservators 5. Guperior Officers	000 000 0 000 000 0 000 110	114197 201100 201100	**************************************	01 F t t t 1 T T T T T T T T T T T T T T T T	58,363 8 5
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I  1.—Travelling Allowances— 1. Conservators 5. Uporior Officers 5. Up or d in a te forest and Depôt	35,393 13 5 2,765 1 4 371 1 0	38,357 5 9	30,872 8 9	48,544 5 8	58,363 8 5
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I  7. Travelling Allowances— 5. Conservators Superior Officers 5. Up or d in a t e Forest and Depot Establishments Office Establish—	35,393 13 5 2,765 1 4 371 1 0	38,357 5 9 2,625 8 0 2,938 9 2	39,878 8 9 2,690 12 7 2,931 9 6	48,544 5 8	58,363 8 5
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I  -Travelling Allowances— Conservators Superior Officers Superior Officers Subordinate forestand Depôt Establishments Office Establishments Forest School.	35,393 13 5 2,765 1 4 371 1 0	38,357 5 9	30,872 8 9	46,544 5 8	58,363 8 5 1,920 0 0 2,606 12 7
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I  —Travelling Allowances— Conservators in Superior Officers Subordinate Establishments  Office Establishments Forest School, Dehra Dun	35,393 13 5 2,765 1 4 371 1 0	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11	39,878 8 9 2,690 12 7 2,931 9 6	46,544 5 8 2,916 2 4 2,999 3 2 728 0 2 50 0 0	58,363 8 5  1,920 0 0  2,606 12 7  796 1 2
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I  —Travelling Allowances— Conservators Superior Officers Superior Officers Superior Officers Superior Officers Conservators Extablishments Office Establishments Forest Forest School, Dehra Dun	35,393 13 5  2,765 1 4 371 1 0  721 10 1	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11	39,878 8 9 2,690 12 7 2,931 9 6 661 6 2	2,916 2 4 2,999 3 2 728 0 2	1,920 0 0 2,606 12 7 796 1 2
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I  -Travelling Allowances— Conservators Superior Officers Superior Officers Superior Officers Coffice Establishments Office Establishments Forest School, Dehra Dun Plague allowances.  Total, B-II	35,393 13 5 2,765 1 4 371 1 0 721 10 1 194 15 9	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11	30,873 8 9 2,690 12 7 2,931 9 6 664 6 2	46,544 5 8 2,916 2 4 2,999 3 2 728 0 2 50 0 0	58,363 8 5  1,920 0 0  2,606 12 7  796 1 2
pensation Allowance—  1. Conservators  2. Deputy Conservators  3. Assistant Conservators  4. Extra Assistant Conservators  Total, B-I  -Travelling Allowances—  Conservators  Su bo rd i na te for a stand Depôt Establishments  Forest School, Dehra Dun  Plague allowances,  Total, B-II  Contingencies—  Z. Stationery	35,393 13 5 2,765 1 4 371 1 0 721 10 1 194 15 9	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11	30,873 8 9 2,690 12 7 2,931 9 6 664 6 2	46,544 5 8 2,916 2 4 2,999 3 2 728 0 2 50 0 0	58,363 8 5  1,920 0 0  2,306 12 7  796 1 2  160 0 0  5,482 13 9
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I  -Travelling Allowances— Conservators Superior Officers Superior Officers Superior Officers Forest and Depot Establishments Office Establishments Dehra Dun Plague allowances, Total, B-II  -Contingencies— 2. Stationery Carriage of Tents and Records Carriage of Tents and Records	35,393 13 5  2,765 1 4 371 1 0  721 10 1 194 15 9 4,052 12 2 *	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11	39,878 8 9  2,690 12 7  2,931 9 6 664 6 2	2,916 2 4 2,999 3 2 728 0 2 50 0 0	1,920 0 0 2,306 12 7 796 1 2 160 0 0 5,482 13 9
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I  -Travelling Allowances— 5. Conservators Superior Officers Superior Officers Superior Officers Conservators Forest and Depot Establishments Office Establishments Plague allowances. Total, B-II  L.—Contingencies— 2. Stationery 5. Carriage of Tents and Records 8. Rents, Tates and taxes	35,393 13 5  2,785 1 4 371 1 0  721 10 1 194 15 9 4,062 12 2 *	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11  6,361 3 1	30,872 8 9  2,690 12 7  2,931 9 6 664 6 2	46,544 5 8  2,916 2 4  2,999 3 2  728 0 2  50 0 0  6,693 5 8	58,363 8 5  1,920 0 0  2,306 12 7  796 1 2  160 0 0  5,482 13 9
pensation Allowance—  1. Conservators  2. Deputy Conservators  3. Assistant Conservators  4. Extra Assistant Conservators  Total, B-I  2. — Travelling Allowances—  3. Conservators  5. Conservators  5. Euperior Officers  5. U bo r d in a t e Forest and Depôt Establishments  6. Gonservators  7. Forest School, Dehra Dun  Plague allowances, Total, B-II  7. Contingencies—  2. Stationery  6. Carriage of Tents and Hecords  8. Rents, Tates and taxes  4. Pay of Police guards  6. Police guards  6. Police guards  6. Police guards  6. Police guards	35,393 13 5  2,765 1 4 371 1 0  721 10 1 194 15 9  4,052 12 2 *  19 4 0 221 6 0 1,844 12 0	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11	30,878 8 9  2,690 12 7  2,931 9 6 661 6 2	46,544 5 8  2,916 2 4  2,999 3 2  728 0 2  50 0 0  6,693 5 8  401 7 10  130 14 6  36 0 0	58,363 8 5  1,920 0 0  2,606 12 7  796 1 2  160 0 0  5,482 13 9
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators 5. Total, B-I 6. Conservators 6. Superior Officers 6. Superior Officers 6. Superior Officers 6. Subord in a terorest and Depot Establishments 6. Forest and Depot 6. Plague allowances, Total, B-II 7. Forest 7. Carriage of Tents and Hecords 6. Rents, Tates and taxes 6. Police guards 6. Police 6. Official postage 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries 6. Sundries	35,393 13 5  2,785 1 4 371 1 0  721 10 1  194 15 9  4,052 12 2 •  19 4 0 221 6 0 1,844 12 0	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11   6,361 3 1  319 3 4  320 9 6  141 0 0	39,878 8 9  2,690 12 7  2,931 9 6 661 6 2	46,544 5 8  2,916 2 4  2,999 3 2  728 0 2  50 0 0  6,693 5 8  401 7 10  130 14 6  30 0 0	58,363 8 5  1,920 0 0  2,606 12 7  796 1 2  160 0 0  5,482 13 9  479 14 0  211 0 6
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators 5. Total, B-I 5. Conservators 6. Conservators 6. Superior Officers 7. Superior Officers 8. Upor of in a te forest and Depot Establishments 9. Forest School, Dehra Dun 1. Forest School, Dehra Dun 1. Plague allowances, Total, B-II 1. Contingencies— 2. Stationery 3. Carriage of Tents and Hecords 4. Ray of Police guards 5. Carriage of Tents and taxes 6. Rents, rates and taxes 6. Contingencies— 7. Contingencies— 8. Contingencies— 9. Carriage of Tents and Hecords 9. Carriage of Tents 9. Corriage 9. Corriage 9. Corriage 9. Corriage 9. Corriage 9. Corriage 9. Corriage 9. Corriage 9. Corriage	35,393 13 5  2,785 1 4 371 1 0  721 10 1 194 15 9 4,052 12 2 *  19 4 0 221 6 0 1,844 12 0 401 12 0	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11  6,361 3 1  319 3 4  320 9 6  141 0 0  501 3 0	39,878 8 9  2,690 12 7  2,931 9 6 664 6 2	46,544 5 8  2,916 2 4  2,999 3 2  728 0 2  50 0 0  6,693 5 8  401 7 10  130 14 6  30 0 0  988 1 6 521 1 6	58,363 8 5  1,920 0 0  2,606 12 7  796 1 2  160 0 0  5,482 13 9  479 14 0  211 0 6
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators Total, B-I  7. Travelling Allowances— 5. Conservators 5. Leading Allowances— 6. Conservators 6. Conservators 6. Superior Officers 6. Conservators 6. Forest and Depôt Establishments 6. Plague allowances, Total, B-II 7. Total, B-II 7. Contingencies— 7. Stationery 7. Carriage of Tents and Hecords 8. Ents, rates and taxes 8. Policial postage 6. Official postage 7. Sundrice 8. Sundrice 8. Sundrice 8. Sundrice 8. Sundrice 8. Payments to Officers	35,393 13 5  2,765 1 4 371 1 0  721 10 1 194 15 9 4,052 12 2 1  19 4 0 221 6 0 1,844 12 0 401 12 0 444 8 0	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11	39,878 8 9  2,690 12 7  2,931 9 6 661 6 2   6,286 12 3  245 7 5 209 4 0 146 0 0  780 14 6 367 4 0	46,544 5 8  2,916 2 4  2,999 3 2  728 0 2  50 0 0  6,693 5 8  401 7 10  130 14 6  36 0 0  988 1 6  521 1 6	58,363 8 5  1,920 0 0  2,606 12 7  796 1 2  160 0 0  5,482 13 9  479 14 0  211 0 6
pensation Allowance—  1. Conservators 2. Deputy Conservators 3. Assistant Conservators 4. Extra Assistant Conservators 5. Total, B-I 6. Conservators 6. Superior Officers 6. Superior Officers 6. Superior Officers 6. Subord in a to Forest and Depot Establishments 6. Generators 6. Forest School, Dehra Dun 6. Plague allowances 7. Total, B-II 7. Contingencies— 7. Stationery 8. Carriage of Tents and Records 9. Carriage of Tents and Records 9. Carriage of Tents and Records 9. Official postage 6. Sundrice 7. Payments to Officers of other Provinces 7. Total, B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III 7. Other B-III	35,393 13 5  2,765 1 4 371 1 0  721 10 1 194 15 9 4,052 12 2 *  19 4 0 221 6 0 1,844 12 0 444 8 0 2,931 10 0	38,357 5 9  2,625 8 0  2,938 9 2  797 1 11   6,361 3 1  319 3 4  320 9 6  141 0 0  501 3 0  497 12 9  1,779 12 7	39,878 8 9  2,690 12 7  2,931 9 6 664 6 2	46,544 5 8  2,916 2 4  2,999 3 2  728 0 2  50 0 0  6,693 5 8  401 7 10  130 14 6  30 0 0  988 1 6 521 1 6	58,363 8 5  1,920 0 0  2,606 12 7  796 1 2  160 0 0  5,482 13 9  479 14 0  211 0 6  271 2 3
pensation Allowance.  1. Conservators  2. Deputy Conservators  3. Assistant Conservators  4. Extra Assistant Conservators  Total, B-I  1.—Travelling Allowances—  5. Conservators  5. Buperior Officers  5. Suborior Officers  5. Suborior Officers  6. Forest and Depôt Establishments  7. Forest School, Dehra Dun  Plague allowances, Total, B-II  1.—Contingencies—  2. Stationery  5. Carriage of Tents and Records  4. Routs, Tates and taxes  6. Rents, Tates and taxes  6. Police guards  7. Sumeries  Payments to Officers of other Provinces.	35,393 13 5  2,765 1 4 371 1 0  721 10 1 194 15 9 4,052 12 2 *  19 4 0 221 6 0 1,844 12 0 401 12 0 444 8 0	39,357 5 9  2,625 8 0  2,938 9 2  797 1 11  6,361 3 1  319 3 4  320 9 6  141 0 0  501 3 0  407 12 9	39,878 8 9  2,690 12 7  2,931 9 6 661 6 2   6,286 12 3  245 7 5 209 4 0 146 0 0  780 14 6 367 4 0	46,544 5 8  2,916 2 4  2,999 3 2  728 0 2  50 0 0  6,693 5 8  401 7 10  130 14 6  36 0 0  988 1 6  521 1 6	58,363 8 5  1,920 0 0  2,606 12 7  796 1 2  160 0 0  5,482 13 9  479 14 0  211 0 6

### different Divisions for the Forest year 1915-1916—continued.

Sátára Division.	Poona Division,	Working Plans Central Circle Division	West Khándesh Famine Fodder Division.	Kolába-Famino Fodder Division.	Total for the Forest year 1915-1916.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. s. p.
3,460 2 5	680.14 F	1	}		
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3,460 2 5	689 14 5		******	******	10,611 18 9
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*****	******	******	*** ***	200 100	****
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209 14 0	139 6 0	38 1 0	****	******	926 5
0 r09 0 11	1070 # 0				
2,523 2 11 1,255 0 9 123 13 0	1,356 7 0 298 2 9	. 100,000	401 PMG 959 1 PQ	- 004.474 - 004.476	8,202 10 ( 4,175 5
123 13 0 3,902 0 8	1 854 0 0	•••••			298 13
3,902 0 8	1,654 9 9				12,866 12 1
		}	]		
480 1 6	, 828 12 11	*****	******	******	5,178 19 (
443 0 7			******	#44 440	1,759 12
50 15 9	174 3 3	782 10 10	922 ped 000 pg	*****	2,841 6 11
1,657 9 10	1,158 5 6	,,44 pd.;	ues tet	000 114	8,794 7 4
150 0 0 113 13 6	160 0 0	•	000 400	900 110	18,468 3 4
2,895 9 2	469 13 11 2,791 3 7	782 10-10	441,55	111.75	32,627 14 6
	*****	, ,,,,,,,,	***************************************	******	
2,143 4 10	3,595 1 1	89 6 10	*******	******	14,205 5 5
2,143 4 10	3,595 1 1	88 6 10	******	*****	14,205 6 2
6,962 8 1	12,407 8 2	909 2 8	52,540 7 9	152 8 0	1,57,087 7 2
-	,				
1,786 13 8	21,557 6 8	9,087 15 6	010+46 011414	******	19,877 6 9 84,293 15 8
4,281 14 10	37,054 4 5	2,300 9 5	******	*****	1,75,382 0 3
6,139 0 4	6,998 12 5	1,436 13 0	gog 100	******	49,622 14 11
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2,505 10 11	418 0 8	150 0 0	******	<b></b>	12,123 9 10
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p42 +44	\$16 anh	400000	401.510	151116	211.00
960	******		. 440 104	888.55	
200.440	******	-		******	gay 404
3,713 7 4	66,028 8 -2	12,975 5 11	*****	****	3,41,240 15 5
·	<del></del>				
2,243 8 7	221 10 8 3,112 11 1	1,341 6 0	492*49	######################################	2,086 12 0 17,221 1 7
2,790 9 5	9,133 5 4	775 14 8	, 210126	422***	18,175 15 5
694 9 4	878 14 7	439 11 3		*****	5,710 6 8
	87 8 0	416114	••••		832 7 9 248 8 0
17 0 0	71 8 0	0.550.15.0		*	41,675 8 5
5,795 11 4	7,505 9 8	2,556 15 6			
353 12 7	495 8 7	490			2,319 2 9
230 4 0	256 0 9	119 0 0		<b>``</b>	1,698 7 8
15 6 0	144 0 0	- 210 505	•••••	, eee.	2,327 2 0
798 0 0 1	1,259 8 6	70 1 0	******	\$4+3+0 0+4+06	5,762 2 6
350 12 9	405 3 0	101 3 0	100211	*****	2,958 15 8
	2,560 4 10	294 13 0	417500	******	15,065 18 9
1.7.8 8 4 1					
1,7.8 3 4	76,094 6 8	15,827 2 5	0111000	******	4,00,991 0 7

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Budget Head.	Direction.	Working Plans Division.	Dharwar and Bijapur Division.	Belgaum Division.	Ratusgiri Division,
SOUTHERN CIRCLE.	Re. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
REVENUE.			•		i i
1.—Timber and other Pro- duce removed from the Forests by Government					
Agency-			2,081 6 0	12,516 4 5	****
a. Timber b. Firewood and chay- coal	000000		311 4 0	2,05,294, 8 9	*****
e. Bamboos d. Sandalwood	annin	*****	23,149 10 -8	2,764 6 4	*****
c. Grass and other minor produce			******	796 4 5	******
Total, I	,,,,,,,	14448	25,542 4 3	2,21,371 7 11	121 000
II.—Timber and other Pro- duce removed from the Forests by Consumers or Purchasers—	•				
a. Timber b. Firewood and char-	******	*******	27,049 15 0	83,009 13 4	270 12 3
coal		, poq san 100 san	7,915 3 4 584 0 0	25,631 2 2 6,883 4 8	375 4 0 4 8 0
d. Grazing and fodder grass	******		25,169 9 0	11,797 10 9	122 8 0
f. Other minor produce f. Other items g. Commutation fees	431478F	eçolikk estan	12,618 2 9	94,745 8 9 	15 15 0
Total, II	******	******	73,368 14 0	1,62,067 6 9	798 15 3
IIIDrift and Waif			7		
Wood and Confiscated Forest Produce	, , , , , , , , , , , , , , , , , , ,	610+12	55 1 0	100 5 6	2 1 0
Total, III		tead##>	55 1 0	109 5 6	2 1 0
IV.—Revenue from Forests not managed by Govern- ment—	·	-			
c. Duty on foreign tim- ber and other forest	<u> </u>				
produce b. Revenue from chared	,	******		· · · · · · · · · · · · · · · · · · ·	
and private Forests		416***	*******	410	10 9 6
•	<u>,</u>	******	******		10 9 6
V.—Miscellaneous— a. Fines and forfeitures					1
b. Refunds	19 6 0 1,384 12 0	0 5 6	558 6 0 4 6 0 2,466 3 10	1,020 8 3 86 15 0 17,611 11 2	12 12 8
Total, V	1,404 1 0	. 0 5 6	3,028 15 10	18,719 3 2	138 4 10
Grand Total, Revenue	1,401 1 0	0 5 6	1,01,993 3 1	4,02,267 7 4	962 11 1
EXPENDITURE.				<del></del>	
A.—Conservancy and Works.					
I.—Timber and other Pro- duce removed from the Forests by Government Agency—					
a. Timber b. Firewood and char-	*****	****	403 13 5	2,750 14 8	5341 hs.
coal	******	******	108 6 0	1,04,221 7 3	******
d. Sandalwood c. Grass and other minor produce	******	*****	064 9 8	455 I5 <b>5</b> 959 <b>1</b> 10	*******
Total, A-I	000 000	*******	1,176 13 1	1,08,387,, 7 2	******
11.—Timber and other Pro- duce, removed from the Porests by Consumers or	<i>i</i>				
Purchasers W.	147,		425 13 4	2,941 8 9	8 1 0
Total, A-II		400100	425 113 4	2,941 8 9	8 1 0
111.—Drift and Waif Wood and Confiscated Forest Produce			11 11 0	70 4 4	
Total, A-III	******	241,510	11 11 0	13 6 0	******
IV.—Revenue from Forests not managed by Govern- ment—					
a. Duty on foreign tim-		•			
ber and other forest produce of Revenue from shared	an one	· oswina	404400	147 ************************************	
and private Forests .	********	<b>4.</b> ******	000000	joorsa .	******
Total, A-IV	*******	ren fån		\$ \$	*******
	<del></del>				

# different Divisions for the Forest year 1915-1916—contd.

<del></del> -	1	<u> </u>	<del>-,</del>	<del></del>	·
Kánara, Eastern Division.	Kanars, Northern Division.	Kánara, Southern Division.	Kánara, Western Division.	Kanara Central Division	Total for the Forest year 1915-1916.
Rs. a. p.	Rs., a. p.	Re. a. p.	,Re. a. p.	Rs. a. p.	Rs. a. p.
•					
	.				,
3,72,707 9 10	6,04,683 7 .7	4,229 4 0	85,310-10 6		1100000
88 0 9	3,813 14 5	1,449 0 3	23,359 0 9	20,535 3 5	11,02,063 13 9
2,395 2 4	12 0 0	2,367 8 0	******	6,072 8 9	9,54,710 9 3 36,761 3 8
*****	,	Sedong	*****	0,072 8 9	36,761 3 8 706 4 5
3,75,190 12 2	6,08,539 8 0	8,045 12 8	1,08,669 11 8	28,972 9 8	19,74,891 15 1
·				•	
18,008 12 2	1,47,971 2 10	3,205 9 5	1,468 10 8	1,950 13 B	2,89,635 8 11
5,054 13 9 11,574 13 0	810 9 8 24,679 5 0	8,9 ₀ 5 11 9 700 5 0	\$8,885 <b>2 6</b> 3,084 14 1	8,505 4 4 431 12 8	96,113 8 9 47,912 13 7
3,166 12 0 2,670 0 0	5,672 10 0 607 10 0	14,866 14 0 8,798 2 9	5,269 0 0 9,830 6 2	4,952 14 0 832 10 5	71,027 18 9 70,118 7 3
404-00	******	4	******	******	
41,075 2 5	1,79,741 5 6	. 86,476 10 11	58,516 1 7	16,673 6 3	5,68,737 14/ 8
59 4 0	0 9 6		233 0 11	· ·	469 5 11
59. 4. 0	0 9 8	******	283 0 11	*****	459 5 11
				<del></del>	
	•				
					*****
******	* 999 (10	******		241 400	10 9 6
****	******	******	******	sepeth)	10 9 6
	•				
169 14 0 1 133 7 5 4,769 1 9	144 0 0 101 8 2 2,897 15 2	795 15 9 -0 6 9 9,207 7 6	3,286 15 1 33 11 5 8,982 15 11	1,063 4 8 2,256 0 2	7,039 15 4 392 1 0 44,714 8 4
5,072 7 2	3,143 7 4	10,003 0 6	7,803 10 5	3,319 4 5	52,145 8 8
4,21,397 9 9	7,91,434 12 4	54,525 7 8	1,74,744 8 3	46,985 8 11	19,95,685 5 10
		٠_	.,		
	,				,
		•			
1,21,978 5 11	2,74,896 14- 8	1,745 7 9	41,256 14 6	22,372 14 5	4,65,408 6 4
********	5,205 15 2 194 2 1	2,160 4 2	10,643 11 1	**************************************	1,22,389 11 8 2,449 11 5
886 5 11		273 9 5	*****	474 0 11	959 1 10
1,22,362 11 10	2,80,298 15 11	4,179 5 4	51,000 9 7	22,846 15 4	5,91,150 14 8
				•	
				1	
368 5 2	588 1 9	1,410 6 9	513 0 8	796 7 7	7,049 12 7
368 5 2 368 5 2	583 1 9	1,410 6 9 1,410 6 9	513 0 S 513 · 0 S	796 7 7	7,049 12 7
	583 1 9	1,410 6 9	513 0 3	798 7 7	7,049 12 7
368 5 2				<del></del>	
368 5 2	583 1 9	1,410 6 9 2 2 0	27 10 `0	1 0 0	7,049 12 7 61 9 0
368 5 2	2 2 0 2 2 0	1,410 6 9 2 2 0	27 10 ° 0 27 10 ° 0	1 0 0	7,049 12 7 61 9 0
3 10 0 3 10 0	2 2 0 2 2 0	1,410 6 9 2 2 0	27 10 ° 0 27 10 ° 0	1 0 0	7,049 12 7 61 9 0
368 5 2	2 2 0	1,410 6 9 2 2 0 2 2 0	27 10 ° 0 27 10 ° 0	1 0 0	7,049 12 7 61 9 0 61 9 0

	<b>.</b>	Tienre Ma .e.	_Summary of R	Personne and To	nenditum of 41
		form No. 24.	—Summary of A	evenue una Lx	penaiture of th
•			Dhárwár and Bijápur	Belgaum	Potent state
Budget Hend.	Direction.	Working Plans Division.	Division.	Division.	Ratnigiri Division.
EXPENDITUBE —contd.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. a.
A.—Conservancy and Works—contd.				,	
V Rent of leased Forests		•			
and Payments to Share- holders in Forests man- aged by Government		419140	•	<b>d</b> dwrau	478 40
Total, A-V	P1	100101	******		*****
VI.—Live-stock Stores, Tools and Plant—					
a. Purchase of cattle b. Feed and keep of cattle	******	415.04	949 994	*** ebs	*****
c. Purchase of stores, tools and plant	3,957 11 8	44494	35 1 0	321 .3 0	11 0 0
Total, A-VI	3,957 11 8	41-1-10	85 1 0	321 3 0	11 0 0
VII.—Communications and Buildings—			1,203 13 10	15,080 11 3	
a. Roads and bridges . b. Buildings c. Other works	**************************************	##### ###### #######	578 8 1 13 9 0	7,871 9. <b>7</b> 258 2 8	10 0 0
Total, A-VII	1 12106	499144	1,790 14 11	24,110 7 1	10 0 0
VIII.—Organization, Improvement and Ex-		· .		•	
a. Demarcation b. Cost of Forest Settle-		******	54 O ,6	1,211 1 1	*****
ments and Compensa- tion for land and			23 1 8	790 0 9	<u> </u>
c. Surveys d. Working-plans	411110 411110 - 4111 <del>11</del>	3,409 <b>6</b> 0	* ******	790 0 9  12 8 0	******
e. Sowing and plant- ing f. Protection from fire.	*****	******	244 6 9 543 7 9	1,771 12 2 6,445 0 0	455 9 8
g. Other works	******	, 100-00	99 14 0	863 0 6	28 0 0
Total, A-VIII		3,409 8 0	964 14 8	10,883 6 6	483 9 8
IX.—Miscellaneous—  a: Law charges b. Other charges	—18 7 6	- 00 4 4	1 12 6 2,560 7 2	080.	******
o. Other charges	-18 7 6	-38 1 4 -38 1 4	2,571 3 8	3,170 13 8 3,171 5 8	132 11 0
Total, AConses- VANOY AND WORKS	3,939 <b>4</b> 2	3,371 4 8	6,976 7 8	49,831 12 2	<del></del>
				20,001 12 2	645 5 8
B.—Establishments.  I —Salaries—			}	- * <b>•</b>	٠
a. Conservators b. Superior Officers c. Subordinate Forest	22,277 6 9 8,139 5 4	7,640 0 0	17,570 5 2	13,729 14 9	******
and Depôt Estab- lishments	720 0 0	2,220 0 0	22,459 10 3	80,055 13 2	2,791 1 6
d. Office Establishments c. Deputation and Special Allowances.	7,531 10 0 2 14 5	1,241 0 0 310 0 0	7,124 0 2 270 6 7	6,511 4 3 773 <b>7</b> 9	547 B 11
f. Exchange Com- pensation Allow- ance—	- · · · ·	, ,			******
1. Conservators 2. Deputy Conserva-	todaja		*******	498.04	******
tors S. Assistant Conservators	*** * * * * * * * * * * * * * * * * *			340446	. •••••
4. Extra Assistant Conservators	*44+++	******	reestė	*******	449++
Total, B-I	33,671 4 6	11,411 0 0	47,421 6 2	50,069 7 11	3,838 10 5
II Travelling Allow-					
a. Conservators b. Superior Officers c. Subordivate Forest	8,014 14 8 805 2 0	1,800 0 0	2,714 4 9	1,850 14 5	******
and Depôt Estab- lishments	159 3 1	520 8 10	1,778 8 8	8,292 1 5	
d. Office Establishments Forest School	1,084 8 11	* 374 0 4	679 10 0	716 14 1	890 10 4 40 14 0
f. Plague allowances	43 9 5	******	185 0 0 15 0 0	45 0 0	*
g: Grain Compensation	#*****	91-444	*49***		******
Total, B-II  III.—Contingencies—	5,107 1 1	2,694 4 2	5,362 7 5	5,904 13 11	431 8 4
a. Stationery b. Carriage of Tents	9 5 8	******	192 7 11	268 9 0	71 0 0
and Records s. Rents, Rates and Taxes	314 3 8 910 0 0	<b>111000</b>	827 15 7	217 1 6	15 14 6
d, Pay of Police-	******	******	200	*****	969 986
f. Official Postage f. Sundries Payments to Officers of	626 13 6 1,053 12 11	40 10 0	1,080 13 6 392 2 3	971 8 6 660 3 5	82 0 0 20 15 8
other Provinces	2014 2 4	*** 199",			410101
TOTAL, B-ESTABLISH-	2,914 3 4	, 40 10 0	1,995 7 8	2,117 8 8	, 189 14 2
MBNTS	41,692 8 11	14,145 14 2	.54,772 4 10	. 58,091 12 8	8,960 0 11

# different Divisions for the Forest year 1915-1916—contd.

			•	1	
Kánara, Eastern Division.	Kánara, Northern Division.	Kánara, Southern Division.	Kánara, Western Division.	Khánara Central Division.	Total for the Forest year 1915-1916.
. Rs. a. p.	Re. s. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Re. s. p.
				,	
	l.	· _			
*****		******	,		
	*****	******		**************************************	*****
	050			•	
357 0 0 1,731 10 2	350 0 0 3,848 1 2	419690	308 4 6	******	707 0 0
848 10 0	733 18 3	234 10 6	217 1 8	18 0 0	5,000 15 10 5,807 <b>2</b> 8
2,440 4 2	4,931 14 5	234 10 6	525 5 9	18 0 0	12,475 2 6
6,516 4 2	16,675 14 1	2,061 10 6	9,758 9 5	451 7 0	52,648 8 8
1,287 5 10 593 1 4	1,110 0 10 698 7 8	1,051 7 8 154 15 8	2,358 15 2 183 9 0	2,669 11 5 222 12 0	16,929 10 7 2,123 8 6
8,896 8 4	18,484 6 2	8,288 1 10	12,298 1 7	9,342 14 5	71,701 6 4
				_	
149 1 0	16 4 1	1,768. 4 4	767 14 3	85 10 0	4,096 8 8
*****	*****	1,516 4 5	17 4 0	247 4 0	2,593 16 10
001.080 071.008	******	******	*****	******	8,421 14 0
2,978 0 8 4,662 5 5	1,749 8 6 8,583 2 10 38 0 0	8,301 2 6 507 8 11	2,570 1 4 1,552 1 2	928 1 8 598 8 7	13,298 11 8 17,930 2 8
8,407 3 7	5,386 15 5	7,078 4 2	4,907 4 9	290 10 9	43,171 3 9
			·		
660 14 4	<u>-575 7 10</u>	2,595 12 10	675 2 3	849 10 0	9,867 6 7
660 14 4	575 7 10	2,595 12 10	676 2 3	694 10 0	9,880 11 1
1,42,639 9 5	3,09,109 15 10	18,768 11 5	70,847 2 2	29,850 2 4	7,35,479 11 6
			1		
19,541 10 2	19,694 13 5	11,269 5 8	10,048 1 1	5,148 1 2 5,965 10 10	22,277 6 9 1,07,781 8 0
22,543 12 4	33,217 2 7	18,198 7 6	20,195 1 3	1,410 5 6	1,69,395 11 44,924 11 8
5,541 14 6 6,668 15 6	6,408 8 1 4,032 7 3	4,302 S 46 19 8 10	6,30 <b>6 4 9</b> 763 6 8	156 0 0	12,396 2 7
•			· !	· .	
	******		******	*****	******
*****	300000 	******	* ,	998100	**************************************
<u></u>		*****		* *****	·
53,695 4 6	63,352 15 4	83,789 9 6	86,312 13 4,	. 12,700 1 6	3,45,705 9 2
. •		,			0.074.74.0
. 2,768 5 3	2,520 0 0	2,400 11 9	8,817 0 1	1,103 11 5	3,014 14 8 18,909 1 8
1,899 10 10	8,760 0 1	2,289 15 <del>9</del>	2,047 0 10	626 9 1	16,668 15 11
819 10 0	806 14 3	586 8 9	* 518 8 4	556 15 6	5,714 1 2 . 720 7 11
75.00	125 0 0	40048 40048 47048	385 7 11	412-160 010-175 000-175	108 9 5
5,062 10 1	7,211 14 4	5,376 4 3	6,797 15 2	2,277 4 0	45,216 2 0
66 0 9	259 15 8	262 12 5.	186 11 0	17 6 4	1,284 4 4
88 4 5	451 2 6	449 15 3	249 18 2	237 8 4	2351 9 11
	080	e pol 1 100	******	<b>000</b> 0000 ,	912 6 0
604 12 0 232 12 10	689 8 0 244 7 3	1,002 10 0 262 11 2	405 2 0 203 2 6	282 0 0 33 7 7	5,765 13 6 3,103 11 7
	·	498 449	******	. 41,000	******
991 14 0	1,645 9 5	1,978 0 10	994 12 8	670 1. 8	13,478 15. 4
69,749 12 7	72,210 7 1	41,143 14 7	43,105 9 2	15,547, 6 9	4,04,419 11 3
			· · · · · · · · · · · · · · · · · · ·	i	,

FORM No. 24.—Summary of Revenue and Expenditure of the different divisions for forest year 1915-1916—contd.

		<u>•</u>		•	· · ·	·		·
Budget Head.	Direction.	Lárkána Divísion.	Jerruck Division.	Hyderabad Division.	Sukkur Division	Thar and Parkar Division.	Working Plans Division.	Total for the forest year 1915-16.
SIND CIRCLE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. s. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
I.—Timber and other pro- duce removed from the forests by Government Agency—	•					. 4	•	
a. Timber b. Firewood and charcoal c. Hamboos	**************************************	145 9 8 931 11 2	456 1 2	4 0 0 2,334 12 1	1,562 1 7	*******	000.00 000.00 000.00	154 15 & 5,184 10 0
d. Sandalwood c. Grass and other minor produce	******	51 0 0	2 2 0	405.4.0	281 4 7	******* <b>•</b>	419100	742 10 7
Total, I	******	1,128 4 10	453 3 2	2,644 0 1	1,851 12 2	440444		6,082 4 3
II. → I imber and other pro- duce removed from the forests by consumers or purchasers —					•	•		
a. Timber b. Firewood and charcoal. c. Bamboos d. Grazing and fodder	100100	5,972 6 11 21,792 13 3  6,797 8 0	18,555 <b>15</b> 5 52,955 5 7	20,816 4 9 38,114 11 2	20,141 11 11 83,267 8 2	1,327 2 0 1,272 9 0	011111 010171 010171	66,816 9 04 1,97,402 15 2
e. Other minor produce. f. Other items g. Commutation fees	######################################	2,682 13 0	10,875 11 3	14,815 2 8 16,691 4 0	13,135 13 11 3,396 6 8	208 0 0 1,113 8 0	900 010 917 100 477 110	46,451 5 7 84,759 10 11
Total, II		37,245 9 2	93,821 13 3	90,437 6 7	1,19,944 8 8	3,081 3 0	******	3,45,430 8 B
III.—Drift and waif wood and confiscated forest produce	******	30 10 0	674 1 0	18 12 0	891 14 6	008104	494794	1,105 5 6
Total, III	***	30 10 0	674 1 0	18 12 0	391 14 6	*****	*****	1,105 5 6
IV.—Revenue from forests not managed by Govern- ment—	<u>.</u>							
<ul> <li>a. Duty on foreign timber and other forest produce</li> <li>b. Revenue from shared</li> </ul>			101148		418144	******	pectod	eleree
and private forests	110711		******	*****	. 354*44	*****	+-	
Total, IV	*****	*****	*****	******	******		***	******
, V.—Miscellaneous—	•				•		;	
a. Fines and forfeitures . b. Refunds c. Other sources	14 0 6 4 0 0	11 0 0 5 10 4 5,702 12 9	1,485 1 9 17 7 3 3,463 5 3	40 0 7 1 2 4 3,470 4 2	65 8 0 8 9 11 12,967 12 2	490434 248 ₃₂ 0 426-14	501 198 122100 122100	1,601 10 4 4 46 14 4 25,608 2 4
Total, V	18 0 6	5,719 7 1	4,965 14 3	3,511 7 1.	13,041 14 1	4444	*****	27,256 11 0
Grand Total, Revenue	18-06	44,123 15 1	99,919 15 8	96,611 9 9	1,35,220 1 5	3,981 3 0		3,79,874 13 5
	<del></del>					. '		
EXPENDITURE.			ľ .			. `		± •
A.—Conservancy and Works.	·	•	•				•	•
I.—Timber and other pro- duce removed from the forests by Government Agency—		•			. ,		• •	•
a. Timber b. Firewood and charcoal c. Bamboos	*****	2 00 765 12 10	422 0 0	2,248 1 0	778 12 3	******	,	. 200 · 4,214 10 1
d. Sandalwood	911000	******** *******	******	******	* 244***	*****	******	*****
e. Grass and other minor produce	*****	911-40	******	122151	*******	******		******
Total, A-I	111100	767 12 10	422 Ø 0	2,248 1 0	, <del></del>		32,140	******
II.—Timber and other produce removed from the forests by consumers					776 12 3			4,216 10 1
or purchasers	*****	2 0 0	8 12 `0	27 12 0	25 5 0	******	****	63 13 0
Total, A-II	*****	2 0 0	8 12 0	27 12 0	25 5 0			63 13 0
* III.—Drift and waif wood	į.	•	<del></del>					03 13 0
and confiscated forest produce	******	0 12 0	******	••••	_			t.
Total, A-III	*****	0 12 0	· · · · · ·	***************************************				. 0 12 0
IV.—Revenue from forests not managed by Govern				<b>*</b> *****	10,535		******	0 12 0
a. Duty on foreign tim- ber and other forest produce	_					• •		· :
b. Revenue from shared	*******	******	20000	* *****	Possage	,	*****	# 449.190
and private forests	741 Fad	140100	******	*****	100.00	******		· · · ·
Total, A-IV	-\$0100 ·	******		<del></del>				
			549159	, ,	******	F00.100		4104DE
						<del></del>		·

# FORM No. 24.—Summary of Revenue and Expenditure of the different divisions for forest year 1915-1916—concld.

		<u> </u>	<u> </u>		•			•
Budget Head.	Direction.	Lárkéna Division,	Jerruek Division.	Hyderabad Division.	Sukkur Division.	Thur and Párkar Division.	Working Plans Division,	Total for forest year 1015-16,
EXPENDITURE-contd.	Rs. a. p.	Rg. a. p.	Rs. a. p.	Rs. a. p.				
A.—Conservancy and Works—contd.				Ks. a. p.	Rs. a. p.	Rs. a. p.	R <b>s. a.</b> p.	Rs. a. p.
V.—Rent of leased forests and payment to share- holders in forests managed by Government		•					•	
	******		111114		******	eleve	******	11440
Total, A-V VI.—Live Stock, Stores,	. ******							******
2 Purchase of anti-					1	<b>!</b>		ì
b. Feed and keep of	545+46	,	<b>67174</b>	***************************************	*****	*******	******	*****
c. Purchase of stores,	Andred	24 4 0	230	29 10 2	290 9 11.	•••••		846 11 1
tools and plant	396 5 0	106 7 0	534 12 0	237 8 0	278 15 8		• •••••	1,548 16 8
Total, A-VI	396 5 0	130 11 0	538 15 0	267 2 2	564 9 2			1,895 10 4
PII.—Communications and Buildings—			•		•,	:		
b. Buildings	16001B 918674 14004B	1,041 13 10 227 8 2	247 1 5 1,325 12 1	575 4 B	1,234 5 9	*****	*******	3,109 0 5
Total, A-VII	<del></del>		<del></del>	508 0 5	404 8 0			2,403 19 8
VIII.—Organization, Im-	*********	1,269 6 0	1,622 18 6	1,081 4 10	1,088 13 9	******		5,062 6 1
proventent and Extension of forest—	· .	ه		•			•	
a. Demarcation b. Cost of forest settlements and compensation for land and	******	4111400 ,	40-108	v*************************************	452444		••••••	
rights	beered beered	0/6 cum -	*****	*****	******	402144	******	949**** ******
d. Working Plans c. Sowing and planting.	******	2,873 1 6 407 5 6	755 8 6 . 2,284 0 1	1,290 13 0 1,180 4 11	730 9 9 2,392 9 4	******	115.15	5,050 0 9 6,353 14 10
f. Protection from fire g. Other works	******	1,145 8 11	971 12 9	1,667 1 6	411-11	******	*****	2,038 14 8 1,145 8 11
Total, A-VIII ".		4,515 15 11	4,011 5 4	4,138 .3 5	3,122 14 1			16,789 6 U
IX.—Missellansous—	•		·		!			
a. Law charges b. Other charges c. Grain compensation	64.13 0	783 11 0 47 9 3	233 6 4° • 986 15 6 20 0 0	782 0 0 85 12 0	8 4 0 1,832 4 9 38 13 -5	444.00	*****	241 10 -4 4,440 12 3 194 2 8
Total, A-IX	. 64 13 0	831 4 3	1,240 5 10	867 12 0	1,879 6 2			4,853 9 3
TOTAL, A.—CONBERVANCY						<del></del>	<del></del>	
AND WORRS	461 2 0	7,517-14 0	7,812 3 8	8,630 3 5	8,059 12 5			32,511 8 6
B.—Establishmants. I.—Salaries.								,
<ul> <li>c. Conservators</li> <li>d. Superior Officers</li> <li>c. Subordinate Forest and Dopôt Establish-</li> </ul>	16,693 8 9	9,472 14 6	12,484 8 1	10,040 0 0	13,240 11 1	600,000 9 010,000	178.068 479498	61,931 5 5
Depôt Establish- ments d. Office Establishments c. Deputation and Special	6,815 11 7	9,526 5 11 5,050 14 5	13,931 4 1 4,732 13 3	10,771 11 11 5,063 10; 7	21,774 5 2 5,997 5 10	1,502 8 10		57,466 3 11 27,660 7 9
Allowances f. Exchange Compensa- tion Allowance—	1,793 8 9	191 11 4	554 12 11	157 6 B	691 10 8	*******	******	8,294 2 3
1. Conservators 2. Deputy Conserva-	804116	444.00%	****** .	495104.	, pun'	*****	#44 ++	
tors 3. Assistant Conserva-	105355	******	*****	*****	*****	•====	409.00	asc++6
tors	94,444	aspect of	******	******	*****		*****	
Conservators		******	400103	*****		******	#5 ***	. ····································
Total, B-I w	25,307 13 1	24,241 14 2	31,603 1 4	26,032 13 0	41,804 0 9	1,502 8 10		1,60,852 3 2
11.—Travelling Allow-								
a. Conservators b. Superior Officers c. Subordinate Forest and		2,1% 14 8 914 14 5	2,155 14 Q	2,312 4 0 710 0 8	1,830 13 6	make a ma make a m	******	11,993 14 8 4,580 11 1
Depôt Establishments. d. Office Establishments. e. Forest School (D.D.).	778 5.7	935 4 10	446 7 6 88 1 4	547. 9 8	£36 15 10 84 10 10	604-44 E	******	8,643 11 0 172 12 2
f. Plague allowances	1 14 6 40 8 3	19 8 0 261 11 1	698 10 4	- 197 4 10 - 463 6 0	262 15 11	107 11 4	******	218 11 4 1,839 9 11
g. Grain compensation . Total, B-II	4,333 7 11	4,337 5 0	4,486 10 0	4,235 8 9	4,948 11 2	107 11 4	******	22,399 6 2
III.—Contingencies —					i . '		,	#er
a. Stationery	14]11 0	94 7 5	8 9 8	155 4 6	179 2 9		******	581 8 4 .
b. Carriage of tents and records	299 15 7 1,732 5 5	408 9 4 658 0 5	272 10 5 600 0 0	. 229 14 0 314 0 0	341 13 4 392 10 0	# · · · · · · · · · · · · · · · · · · ·	*****	1,588 14 8 3,637 5 10
c. Rents, Rates and Taxes d. Pay of Police guards.		579 13 6	380 8 6	352 5 6	824 12 Ø	*****	180 m.	2,417 18 0
f. Sundries Payments to officers of other provinces	487 10° 3	417 14 8	371 0 10	419 3 8	563 11 8	necessaria.	44-14F	2,259 8 8
Total, B-III	2,815 1 9	2,159 · 3 4	1,711 13 5	1,470 11 8	2,242 1 4		*.**	10,398 15 6
TOTAL, B. ESTABLISH-	32,456 6 9	30,738 6 6	37,751 8 9	31,739 1 5	49,794 13 3	1,870 4 2		1,88,150 8 10
Grand Total of Expenditure,	82,017 8 9	28,256 4 6	45,593 12 5	40,369 4 10	50,851 9 8	1,670 4 2	<b>;</b> ******	2,15,661 12 4
• 1	' <u></u>	· · · · · · · · · · · · · · · · · · ·	·				·	

FORM No. 25.—Annual Account Current for the forest year 1915-1916.

					<del></del>
NORTHERN CIRCLE.	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
To Opening Balance	495***	1,067 2 10	By I. Refunds and Drawbacks— Refunds—		
, VIII.—Assessed Taxes—Income Tax—	.,		Divided Heads, Porests	*****	1,580_11_0
Deductions by Gov- ernment from sala- ries and pensions	····*• *	******	" II. Forest (as per Annual Summary Form No. 24). Savings Bank Deposit G.	•••••	7,63,739 5 9
Tax on other sources of income Recoveries by Revenue	a depose	9,485 0 11	P. Fund y, 33. Famine Relief—VI.—Mis-	****	3,254 7 3.
Authorities IX.—Forest (as per Annual	****	31 4 0	cellaneous—measures for the protection of cattle	*****	11,876 14 6
Summary, Form No. 24)	*****	16,57,003 0 7	" 32. Miscellaneous—Miscella- neous Refunds— Refund of lapsed depo-		•
" P. W. Remittances	*****	******	sits eve	101000	70 5 3
" III.—Other remittances	******	4.44.49	" Civil Depsoits— Forest deposits	******	83,929 3 11
" Rents of public buildings …	40 m.,	1,232 8 9	" Advances Recoverable—		
" XII.—Interest— Miscellaneous on other accounts »	899.80	103	Forest advances	6,42,385 15 8	)
" Provincial Advance and Loan			Tentage advances	66 10 9	
Account, Tagai Advances— Advances to cultivators			Objection book advances	2,022 - 0	6,45,258 10 5
under Land Improve- ment and Agricul- turists' Loans Act	******	182 8 0	Advances to non-gazetted officers for purchase of conveyance, etc.	707 0	)
" XII.—Interest— Interest on advances	•	-	" Cash Recoveries	*****	1,378 9 2
to cultivators under Laud Improvement and Agriculturists'			" Cheques and Bills—Depart- mental Cheques (Forests).	*****	46,697 7 6
Loans Act	•••••	26 13 3	" Forest Remittances—		,
"Bombay Uncovenanted Service Family Pension Fund "Widows' Branch	******	239 3 6	Remittances to treasuries .  Inter-Departmental trans-	16,89,780 12 0	
"Forest Officers' Provident	,	. 200 0	fors ••• ••• ···	50 0 0	16,90,219 4 0
Fund			Inter-Divisional transfers .	<b>3</b> 88 <b>8 0</b>	)
Forest deposits	*****	1,02,846 13 1	" Account between Bombay and Military Poona Division—		•
Forest advances Tentage advances to gazet-	6,30,743 15 2		IV.—Items adjustable by Military— Provincial Advance and	,	
ted officers Objection book advances Advances to non-gazetted	1,775 0 0	6,32,831, 7 2	Loan Account	******	2,646 0 0
officers for the purchase of conveyance, etc.	312 8 0		"Tagai Advances— Advances to cultivators under Land Improvement		•
" Cash Recoveries	******	1,378 9 2	and Agriculturists' Loan Act	******	365 0 0
" Cheques and Bills—Departmental Cheques—Forests.		11,07,755 14 1	" P. W. D. Remittances—	·	•
"Forest Remittances—			" III. Other Remittances—Mis- cellaneous	**	10 10 0
Remittances to treasuries. Inter-Divisional transfers. Inter-Departmental trans-	1,779 7 1 388 8 0	} 12,658 13 5	, 32. Miscellaneous—Allowances, Rewards, etc.—		,
fers	10,490 14 4		Rewards for proficiency in Oriental Languages.	400.00	1,500 0 0
" General Provident Fund		21,105 7 5	,, 32. Miscellaneous, Unforeseen charges—Famine relief		
, Account between Bombay and Post Office— Postal Fund deductions		-	expenditure written back	·	
"XXII.—Receipts in aid of superannuation—Offi-	eca fos	444 6 9	nary observation and test, ,, Account between Bombay and Railways—(Railway Boards)	s dia 180	2,50,000 0 0
cers lent to foreign service—Contribution for pensions and gratui-			(B. B. & C. I. Railway)— IV.—Items adjustable by		
ties—other foreign	******	1 1 9	Railways—Miscellaneous	******	39,005 7 6
Total, Northern Circle	•••••	35,42.289 2 5	Total, Northern Circle		807 2 2 35,42,289 2 5
	•	·	,		1

# FORM No. 25.—Annual Account Current for the forest year 1915-1916—continued.

	<u> </u>				•
CENTRAL CIRCLE.	Rs. s. p.	Rs. s. p.		. ,	
To Opening Balance	******	615 11 7		Rs. a. p	Rs. s. p
"VIII. Assessed Taxes—Income Tax— Deductions by Government fro		018 11, 7	By I. Refunds and Drawbacks—Refunds—		
salaries and pensions	3,148 9 7	ו	Divided Heads, Forests		2,089 3
Tax on other sources of Incom Recoveries by Revenue Autho	T-	3,148 9 7	" II. Forest (as per Annual Sum- mary Form No. 24)		5,58,048 7
"IX. Forest (as per Annual Summar Form No. 24)	······································		Savings Bank Deposits—		0,00,010
"XII. Interest—	•••	8,09,825 1 0	Ocuciat Lioaidett Laud	*****	1,301 9
Interest on advances to cultiv			" 33.—Famine Relief—		
tors under the Land Improvement Act	e- 	0 11 6		*****	8,660 8 10
P. W. Remittances—	·		,, 32. Miscellane ou - Refunds		
, III. Other Remittances-		,	· Refund of lapsed deposits	*****	240 0
Rents of Public Buildings	8,303 11 9	<b>)</b>	" Civil Deposits—Forest deposits	<u> </u>	56,745 15
Rents of Public Buildings Miscellaneous	45 5 4	2,349 11 0	" Advances Recoverable—	******	
, Provincial Advance and Los	מו		Forest Advances	4,28,089 10 6	1
Account—  Loan to Native States ar	ad .		Advances to Gazetted Officers for the purchase of motor car.	1,000 0 0	11
other Notabilities	, testes .	5,000 0 0	Objection Book Advances	17,804 0 0	4,47,273 10
XII. Interest— Interest on Provincial Advance and Loan Account—Interest	ıt.		Advances to Non-Gazetted Officers for purchase of conveyance, etc.	: 880 0 0	
on Advances to Land holders an other Notabilities	d ••••••	1,406 * 2 0	, Cash Recoveries		1,804 1
Bombay Uncovenanted Service Famil Pension Fund—	y		" Cheques and Bills—Departmental Cheques (Fcrests)		368 2
Widows' Branch		313 8 7			
Forest Officers' Provident Fund		269 0 0	" Forest Remittances—		
Civil Deposits— Forest Deposits		60,273 3 2	Remittances to treasuries	8,81,891 1 9	
Provincial Advance and Loan	1	00,273 3 2	Inter-Departmental transfers	11,659 7 8	11
Accounts— Advances to cultivators under the	e	198 J1 0	Inter-Divisional transfers	10,604 0 0	
Advances Recoverable—		. 100 11 0	By Account between Bombay and Mili- tary, Bombay—		
Forest Advances	4,26,457 0 7	)	. IV. Items adjustable by Military, Miscellancous,	•	0.000 0.14
Tentage Advances to Gazetted	183 5 0		Poons Division •	******	8,223 6 10
Objection Book Advances Advances to Gazetted Officers for	2,557 5 4	4,29,786 10 11	,, P. W. D.—Remittances—	•	
purchase of motor car Advances to Non-Gazetted	209 0 0	]	III—Other Remittances—		
Officers for the purchase of con-	389 0 0		Miscellaneous	*** ,	8 0 0
veyance, etc		1,304 1 2	" Account between Bombay and Military Supply Circle—		
Cheques and Bills—Departmental Cheques—Forests	******	5,67,662 10 0	IV.—Items adjustable by Military Miscellaneous	*****	820 8 6
Forest Remittances—				}	
Remittances to treasuries	11,466 3 1 10,679 0 0	35,891 7 9	" 32. Miscellaneous—  Miscellaneous and unforeseen		
Inter-Divisional transfers	13,746 4 8	,	charges (Provincial)—other unforeseen charges	191	389 12 1
Inter-Departmental transfers	ľ	16.361 11 1		•	•
Inter-Departmental transfers  General Provident Fund  Account between Bombay and Post	*****	16,361 11 1	Closing Balance	***	590 2 9
Inter-Departmental transfers	*****	16,361 11 1			,

FORM No. 25.—Annual Account Current for the forest year 1915-1916—continued.

•		<del>,                                     </del>			, is
COMMUNICATION OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a.
SOUTHERN CIRCLE. To Opening Balance	*****	643 6 - 0	By I. Refunds and Drawbacks— Refunds—		
" VIII. Assessed Taxes—Income Tax—	, ,		Divided Heads, Forests		1,508 5
Deductions by Government from salaries and pensions,	****	3,952 4 6	,, II. Forest (as per Annual Sum- mary Form No. 24)'	*****	11,39,899 6
Tax on other sources of income			Savings Bank Deposits— General Provident Fund	4.000	4,323 12
Recoveries by Revenue Autho-	!		" 33. Famine Relief—		
rities ,, IX. Forest (as per Annual Summary	*****	******	VI. Miscellaneous—Measu r e s for the protection of cattle.		1
Form No. 24)	. ******	19,95,685 5 10	,, 32. Miscellaneous—Miscellaneo u s	•••••	
P. W. Remittances— III. Other Remittances		•	Refunds—Refund of lapsed Deposits	396 4 3	<b>\</b>
Rents of Public Buildings	1,678 5 11		" 32. Miscellaneous-Other Items	3 8 0	
Rents of Public Buildings,		1,901 3 2	,, 32. Unforeseen Charges—Other unforeseen Charges	17 0 0	
Miscellaneous	222 13 3	). 	" Civil Deposits—Forest Deposits	66,223 3 0	
, Account between Bombay and Military Supply Circle-	,		,, Civil Deposits—Personal Departments.	16 1 0	66,239 4
IV. Items adjustable by Military—	944145	500	"Advances Recoverable—		] }
XII. Interest—Miscellaneous on	1		Forest Advances	6,99,793 0 7	h
other Accounts	******	2,146 9 3	Motor Car Advances	5,000 0 0	•
Bombay Uncovenanted Service Family Pension Fund—	~		Objection Book Advances	2,900 4 9	5:7,03,323 5
Widows' Branch	72 13 0	)	Advances to Non-Gazetted Officers for purchase of		
Life Assurance Branch	48 4 10	121 1 10	conveyance, etc	630 0 0	J 
Forest Officers' Provident Fund-			" Cash Recoveries	*****	1,236 15
Civil Deposits—Forest Deposits	68,470 7 4	)	" Cheques and Bills—Departmental Cheques (Forests) cancelled …	*****	11,645 11
Civil Personal Deposits—Other Departments	78 10 0	68,549 1 4	" Forest Remittances—	•	
Advances Recoverable—			Remittances to Treasuries	14,78,029 14 6	i)
Forest Advances	6,92,753 8 10	h .	Intendepartmental Transfers	1,677 3 11	15,29,776 3
Tentage Advances to Gazetted Officers	30 0 0		Inter-divisional Transfers  By Account between Bombay and	50,069 1 1	ر _ا ۱
Objection Book Advances	3,968 15 5	6,99,454 12 3	Military Supply Circle—		. •
Motor Car Advances	1,911 1 4	CO,003,±0± 12 0	IV. Items adjustable by Military—Miscellaneous.	******	35,398 10
Advances to Non-Gazetted Officers for the purchase of conveyance,	\ ·	. ,	,, P. W. D. Remittances-		
etc see	791 2 8	<b>נ</b> ן	" III. Other Remittances—	i.e.	,
Cash Recoveries	*******	1,236 15 8	Miscellaneous	******	3,476 15
Cheques and Bills—Departmental Cheques—Forests	••••	11,92,924 5 6	"Account between Bombay and Military Works—	. •	
Forest Remittances	h _	ŀ	IV. Items a ljustable by Military Works	*******	4,112 2
Remittances to Treasuries	118 8 10	h	, Account between Bombay and		
Inter-divisional Transfers	48,619 .1 1	54,834 10 10	Railways—M. & S. M. Railway IV. Items adjustable by Rail-		
Inter-departmental Transfers	6,097 0 11	ال	ways—Miscellaneous	1114 <b>00</b>	5,88,717 12
General Provident Fund	484189	21,231 8 5	, Account between Bombay and Military—		
Account between Bombay and Post Office—		·	IV. Items adjustable by Military—Poona Division—		
Postal Fund Deductions	*******	642 31 2	Miscellaneous Closing Ralance	******	232 7 3,021 4
Total Canal Co.	<del></del>		Orosing transition	·····	O,UZI 49
Total, Southern Circle	*****	40,43,329 1 9	Total, Southern Circle	*****	40,43,329 - 1

APPENDICES,

FORM No. 25.—Annual Account Current for the forest year 1915-1916—concluded.

Deductions by Government from Salaries and Pensions.  Tax on other sources of Income recoveries by Revenue Authorities  IX. Forest (as per Annual Summary Form No. 21)  P. W.—Remittances—  III. Other Remittances—  Rents of Public Buildings,	******	Ra. a. p. 293 5 11  1,850 5 5 3,79,974 13 5	By 1. Refunds and Drawbacks— Refunds—  Divided Heads, Forests  ,, 11. Forest (as per Annual Summary Form No. 24)  Savings Bank Deposits—	Rs. a. p.	13. a p410 8 5
Deductions by Government from Salaries and Ponsions.  Tax on other sources of Income recoveries by Revenue Authorities  IX. Forest (as per Annual Summary Form No. 21)  P. W.—Remittances—  III. Other Remittances—  Rents of Public Buildings  Rents of Public Buildings,	******	1,950 5 5	Refunds— Divided Heads, Forests  ,, 11. Forest (as per Annual Summary Form No. 24)  Savings Bank Deposits—	-	.410 8 2
Deductions by Government from Salaries and Pensions.  "Tax on other sources of Income recoveries by Revenue Authorities  "IX. Forest (as per Annual Summary Form No. 21)  "P. W.—Remittances—  III. Other Remittances—  Rents of Public Buildings  Rents of Public Buildings,	******		Refunds— Divided Heads, Forests  ,, 11. Forest (as per Annual Summary Form No. 24)  Savings Bank Deposits—	-	
from Salaries and Pensions.  " Tax on other sources of Income, recoveries by Revenue Authorities  " IX. Forest (as per Annual Summary Form No. 21)  " P. W.—Remittances—  III. Other Remittances—  Rents of Public Buildings  Rents of Public Buildings,	******		,, 11. Forest (as per Annual Sum- mary Form No. 24) Savings Bank Deposits—	-	
recoveries by Revenue Authorities  JX. Forest (as per Annual Summary Form No. 21)  P. W.—Remittances—  III. Other Remittances—  Rents of Public Buildings  Rents of Public Buildings,	•••••		mary Form No. 24) Savings Bank Deposits—	*****	018.001 10
Form No. 21)  P. W.—Remittances—  III. Other Remittances—  Rents of Public Buildings  Rents of Public Buildings,		3,79,974 13 5	Savings Bank Deposits-		± 100'001 13 4
III. Other Remittances—  Rents of Public Buildings  Rents of Public Buildings,			General Provident Fund	*****	1,600 0 0
Rents of Public Buildings Rents of Public Buildings,		]	" 33. Famine Relief-VI. Miscella		, · · ·
Rents of Public Buildings,	i	,	neous-Measures for the		
Rents of Public Buildings,	*****	335 14 11	protection of cattle	******	****
Miscellaneous	* ******	800100	., 32. Miscellaneous—Miscellaneous Refunds—		
D. (Railway Branches), NW. Ry.			Refund of lapsed Deposits	70414	47 8 0
· IV. Items adjustable by P. W. D.	*****	204 3 0	,, Civil Deposits—Forest Deposits	******	16,846 0 3
, XII. Interest.			,, Advances Recoverable—	•	
Interest on Advances to Land- holders	******	888148	Forest Advances	1,04,924 11 1	) · · ·
, Bombay Uncovenanted Service Family			Tentage Advances	##\$\ <b>4</b> \$	i ·
Pension Fund—			Objection Book Advances	174 0 0	1,05,158 11 1
Widows' Branch	******	******	Advances to Non-Gazetted		
Forest Officers' Provident	*****	•••••	Oilicers for purchase of conveyance, etc.	60 Q Q	
, Civil Deposits—			,, Cash Recoveries (Clothing)	94 b « pq	118 6 11
Forest Deposits	******	15,094 1 9		· •	
, Advances Recoverable— Forest Advances	1,06,751 13 1	]  }	, Objection Book Advances—Sus- pense—Suspense Account	*****	29 1 6
• Tentage Advances to Guzetted Officers		[ <b>!</b> .	,, Forest Remittances—	,	•
Objection Book Advances	190 10 8	1,07,0:0 13 1	Remittances to Treasuries	3,87,333 1 5	3,87,537 4 5
Advances to Non-Gazetted			Inter-departmental Transfers.	204 8 0	<b>)</b>
Officers for the purchase of conveyance, etc.	78 5 4		Inter-divisional Transfers	***1**	. *****
, Cash Recoveries (Clothing) Cheques and Bills—Departmental	******	118 6 11	., Refunds and Drawbacks—Re- funds—Fivided heads—Assessed Taxes—Income Tax	******	8 5 4
Cheques—Forests	499140	<b>2,2</b> 0,679 12 0		1	
, Forest Remittances-	•		By P. W. D. Remittances-	•	l
Remittances to Treasuries	148 12 6	) ·	III. Other Remittances—		•
Inter-divisional Transfers	e e e e e e e e e e e e e e e e e e e	475 4 6	Items adjustable by P. W. D.—	,	
Inter-departmental Transfers	331 8 0	٠. با	Miscellaneous	*****	7,804 4 10
General Provident Fund	4 59 6 9 6	9,145 2 7			
Account between Bombay and Post Office—			Closing Balance	*****	205 8 6
Postal Fund Deductions	*****	365 4 0	-		
Total, Sind Circle	***,**	7,35,487 7 6	Total, Sind Circle		7,85,487 7 6
GRAND TOTAL	*****	1,02,56,321 9 7	GRAND TOTAL	1	1,02,56,321 9 <b>7</b>

FORM No. 26.—Revenue received and outstandings on account of revenue during 1915-1916.

Division.	Particulars.	Ontstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	Kemarks.
1	2	3	4 . •	5	6	7	8
NORTHERN CIRCLE.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Direction Working Plans Panch Maháls	Do Timber and other forest	******	380 12 0 3 3 1 1,14,022 10 2	380 12 0 3 3 1 1,14,022 10 2	380 12 0 3 3 1 1,14,022 10 2	000.2. 000.20 200.00	!•
Surat North Thána. Central Thána.	produce.  Do.  Do.  Do.  Do.  Do.	14,633 6 6 49,890 12 6 1,314 11 10 12,864 0 0	2,19,243 7 3 5,04,146 13 5 2,48,770 13 2 1,90,624 4 0	2,83,876 13 9 5,54,037 9 5 2,56,085 9 0 2,03,488 4 0	2,32,603 1 9 5,54,037 9 5 2,56,085 9 0 2,03,488 4 0	1,273 12 0	
North Násik South Násik Direction (Famine	Do Do Famine fodder	375 0 0 927 0 0	59,444 10 6 1,67,645 0 8 68,120 4 0	59,819 10 6 1,68,572 0 8 68,120 4 0	59,819 10 6 1,68,442 0 8 68,120 4 0	130 0 0	
Fodder). CENTRAL	Total, Northern Circle .	86,004 14 4	15,72,401 14 8	16,58,406 12 7	16,57,008 0 7	1,403 12 0	
CIRCLE. Direction ,	Various sources	*****	—192 15 O	—192 15 <b>0</b>	-192 15 O	*****	
East Khán- desh.		4,320 0 0	1,34,860 7 1	1,39,180 7 1	1,39,180 7 1	******	
West Khán- desh. North Khán-	Do	1,494 0 0 1,710 0 0	1,54,918 14 5 75,827 10 5	1,56,412 14 5 77,037 10 5	76,747 10 5	290 0 0	
desh. Poona Satara Working Plans.	Do Do Do	2,847 0 0	1,62,779 6 6 58,673 7 10 0 1 0	1,62,779 6 6 *61,520 7 10 0 1 0	1,62,779 .6 6 *61,468 7 10 0 1 0	52 0 0	• Includes the amount of Rs. 2,847 written off, vide Government Re-
Kolába	Do	583 0 0	1,78,742 6 0	1,79,325 6 0	1,78,669 6 0	656 0 0	solution, No. 8064-R. D, dated 28th July 1915.
i	Total, Central Circle	10,954 0 0	7,65,109 6 3	7,76,063 6 3	7,75,065 6 3	. 998 0 0	•
SOUTHERN CIRCLE.		•	•	,			
ern.	Timber and other forest produce.		9,58,989 15 0		a)7,91,428 4 4	2,72,273 13 0	Includes : (a) Rs. 3-8-0 written
Kánara, East- ern. Kánara Cen-	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	78,661 14 2	4,61,986 13 9 72,626 11 9		(8)4,21,722 6 5	1,18,926 5 6	off; (b) Rs. 324-12-8 do. (c) Rs. 31-4-0 do
tral (New Division from 1st	·	*****	12,026 11 9	72,626 11 9	46,965 3 11	25,661 7 10	
Feb. 1916. Kánara, South- ern.	<u>'</u>	5,361 11 2	56,425 7 0	61,787 2 3	54,525 7 8	7,261 10 7	
Kanara, West- ern. Belgaum	D.	33,509 12 9	1,64,678 14 5	1,98,188 11 2	1,74,744 8 2	23,414 3 0	
Dhårwár-Bijá- pur (New comb i n e d	Do	30,906 8 7 2,843 14 0	4,15,811 4 9 99,558 4 10	4,46,717 13 4 1,02,402 2 10	4,02,267 7 4 (c)1,02,024 7 1	44,450 6 0 377 11 9	*This includes Rs 359.8-9 written off during the year.
Division). Ratnagiri Direction Working Plans.	Do	******	962 11 1 1,404 1 0 0 5 6	962 11 1 1,404 1 0 0 5 6	962 11 1 1,404 1 0 0 5 6	******	*
SIND CIRCLE,	Total, Southern Circle	2,55,995 15 1	22,32,444 9 1	24,88,440 8 2	*19,96,044 14 6	4,92,395 9 8	
Sukk <b>ur</b>	I. Timber and other produce removed from the forests by Govern- ment agency—		•				
	(a) Timber (b) Firewood and charcoal.	*****	5 6 0 1,562 1 7	5 6 0 1,562 1 7	5 6 0· 1,562 1 7	******	
!	(e) Grass and other minor produce.  II. Timber and other minor produce removed from the forests by	*	281 4 7	284 4 7	284 4 7	********	•
•	consumers or pur- chasers— (a) Timber	3,591 4 0	21,536 3 11 ,	25,127 <b>7</b> 11	20,144 11 11	4,982 12 0	Db
·	(b) Firewood and char- coal. (d) Grazing and fodder	14,311 0 0	88,887 8 2 13,135 13 11	1,03,198 8 2	_83,267 8 2	1 4,982 12 0 19,931 0 0	The outstarding under V.C. at close of the year amounts to Lt. 227-10-5.
,	grass. (e) Other minor pro-	*******	3,396 6 8	13,135 13 11 3,896 6 8	13,135 13 11 3,396 6 8	******	11.8. 224-10-51
	duce. III. Drift, waifwood and confiscated forest produce.		381 14 6	381 14 6	381 14 6	*******	
<del></del>	Total	17,902 4 0	1,29,189 11 4	1,47,091 15 4	1,22,178 3 4	24,913 12 0	

Form No. 26.—Revenue received and outstandings on account of revenue during 1915-1916—continued.

Division.	Particulars,	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year,	Balanco due to the Department at and of year.	Romarks
1	2	8	4	5	6	7	8
	SIND CIRCLE—contd.	Rs. s. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
árkána	I. Timber and other produce removed from the forests by Govern- ment agency—		·	•			
. •	(a) Timber. (b) Firewood and charcoal.	******	145 9 8 931 11 2	145 9 8 931 11 2	145 9 8 931 11 2	10444	
	(e) Grass and other minor produce. II. Timber and other	*****	51 0 0	. 51 0 0	. 51 0 0	*****	·
	produce removed from the forests by consumers or purchasers		-				
• -	(a) Timber (b) Firewood and char-	1,459 0 4 5,836 <b>3</b> 8	5,732 15 6 20,834 12 8	7,191 15 10 26,671 0 4	5,972 6 11 21,792 13 8	1,219 8 11 4,878 3 1	The outstanding under VC. at close of the year amounts t
	coal. (d) Grazing and fodder grass.		6,797 8 0	6,797 8 0	6,797 8 0		Re. 104-7-2,
	(e) Other minor produce.		1,726 13 0	2,682 13 0	2,682 18 0	*******	
* 	III. Drift and waifwood and confiscated forest produce.		30 10 0	30 10 0	30 10 0	******	<u> </u>
	Total	• 8,251 4 O	36,251 0 0	44,502 4 0	38,404 8 0	6,097 12 0	
Hyderabad	I. Timber and other produce removed from the forests by Government agency—	)					
	(a) Timber (b) Firewood and char-	20110	4 0 0 2,234 12 1	4 0 0 2,234 12 1	2,234 12 1	*****	
	coal. (e) Grass and other minor produce.	] -	435 4 0	. 540 4 0	405 4 0	135 0 0	
	II. Timber and other produce removed from the forests by consum	ri .			·		
<b>,</b>	ers or purchasers— (a) Timber (b) Firewood and char		27,711 14 4 48,458 1 7	27,711 14 4 48,158 1 7	20,816 4 9 38,114 11 2	6,895 9 7 10,343 6 6	
·	(d) Grazing (e) Other minor pro		14,815 2 8 18,191 4 0	20,187 14 8	16,691 4 0	3,496 10 8	
	III. Drift and waifwood and confiscated fores produce.		18 12 0.	18 12 0	18 12 0		_
	• Total ••	2,101 10 8	1,11,869 2 8	1,13,970 13 4	93,100 2 8	20,870 10 8	
Jerruck •	I. Timber and other produce removed from the forests by Govern	3			•		•
	ment agency— (a) Timber (b) Firewood and char		456 1 2	456 1 2	456 1 2		
	coal. (c) Grass and othe minor produce.	r	2 2 0	. 220	2 2 0		
	II. Timber and othe produce removed from the forests by consum ers or purchasers—	o <b>i</b> _		·			The outstanding und
	(a) Timber (b) Firewood and charcoal.		18,735 10 10 50,748 6 2	71,214 2 10	52,955 5 7	18,258 13 8	
	(d) Grazing (e) Other minor pro	7,010 5 4	11,434 13 0 6,080 0 0	11,434 13 0 13,090 5 4	10,875 11 8	2,214 10 1	
	duce. III. Drift and waifwood and confiscated fores produce.	d ••••••	674 1 0	674 1 0	674 1 0		
	Total	32,451 5 4	88,131 2 2	1,20,582 7 6	94,954 1 5	25,628 6 1	

н 1495—43

FORM No. 26.—Revenue received and outstandings on account of revenue during 1915-1916—concluded.

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	Remarks.
1	2	3	4	5	6	7	8
SIND CIRCLE— concluded.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	. e
Thar and Par- kar.	produce removed from the forests by Govern-						
•	ment agency— (a) Timber  (b) Firewood and charcoal.	******	******	****	546146		
•	(a) Grass and other minor produce. II. Timber and other	•••••		** ***		• •••••	•
	produce removed from the forests by consumers or purchas- ers—					•	_
	(a) Timber (b) Firewood and charcoal.	*****	1,327 2 0 1,272 9 0	1,327 2 0 1,272 9 0	1,327 2 0 1,272 9 0	******	The outstanding under V.C. at the close of the year amounts to nii.
	(d) Grazing and folder grass. (e) Other minor pro-	******	268 0 0 1,113 8 0	268 0 0 1,113 8 0	268 0 0 11,113 8 0	100100	
	duce.  III. Drift and waifwood and confiscated forest produce.	~ ***···	*****	******	******	*******	
•	Total		3,981 3 0	3,981 3 0	3,981 3 0	******	
Total of Sing Circle.	I. Timber and other produce removed from the forests by Govern- ment agency—	ıl en en en en en en en en en en en en en					-
	(a) Timber (b) Firewood and charcoal.	404740	154 15 8 5,184 10 0	. 154 15 8 5,184 10 0	154 15 8 5,184 10 0		
	(e) Grass and other minor produce. II. Timber and other produce removed from the forests by consum		772 10 7	877 10 7	742 10 7	135 0 0	
,	ers or purchasers— (a) Timber (b) Firewood and char coal.	10,025 7 8 40,613 0 4	75,043 14 7 2,10,201 5 7	85,069 6 3 2,50,814 5 11	66,816 9 0 1,97,402 15 2	18,252 13 3 53,411 6 9	The outstanding under VC. at the close of the year amounts to
	(d) Grazing and fodder grass.		46,451 5 7	46,451 5 7	46,451 5 7		Rs. 392-1 5.
·	(e) Other minor produce.  III. Drift and waifwood and confiscated fores produce.	1	30,507 15 8 •1,105 5 6	40,470 15 8 1,105 5 6	34,759 10 11 1,105 5 6	1 _	•
•	Total, Sind Circle	60,706 8 0	3,69,422 3 2	4,30,128 11 2	3,52,618 2 5	77,510 8 9	•
•	GRAND TOTAL	4,13,661 5 6.	49,39,378 0 8	53,53,039 6 2	47,80,731 7 9	5,72,307 14 5	

FORM No. 27.—Outstandings and Liabilities on account of Contractors and Disbursers for the forest year 1915-1916.

		DEPARTMENT DES	TOE.	Da	PARTMENT CREDITO	, Balance du	1		
Division.	At com- mencement of year.	Recoveries in cash and value of sup- plies and work done during the year.	At close of year.	At commence- ment of year.	Payments made during year.	At close of year,	To Department	By Depart- ment simbilities).	marks
1	2,	. 8	4	5	6	7.	8	•	20
NORTHERN CIRCLE.	Rs.	Rs. a. p.	Rs. s. p.	Rs. a. p.	Rs. s. p.	Rs. a. p.	Rs. a. p.	Rs. s. p.	
Contractors.		}	·	·					
North Thána Contral Thána Surat Direction Famine Fodder.	•••	160 10 3 28 4 0 28,196 10 0 1,00,060 0 0	160 10 8 28 4 0 28,196 10 0 1,00,000 0 0.	160 10 3 28 4 0	41,954 2 0 1,00,000 0 0	160 10 8 28 4 0 41,954 2 0 1,00,000 0 0	13,757 8 0	***	
Total, Contractors		1,28,385 8 8	1,28,385 8 3	188 14 3	1,41,954 2 0	1,42,143 0 3	13,757 8 0		
	<del> </del>				-,-,-				
Disbursers.  North Thána	,	45,916 1 1	45,916 I 1	1,263 0 0	45,544 4 8	46,807 4 3	891 8 2	•••	
Central Thana		44,498 3 7	44,498 3 7	920 9 3		45,888 0 4	1,389 12 9	103	
South Thána		50,882 0 3	50,882 0 3	1,447 1 1	50,353 11 6	51,800 12 7	918 12 4	•••	
Panch Maháls		43,078 15 1	43,078 15 1	234 5 8	43,431 15 6	43,666 5 2	587 6 1	***	
Surat	·	90,181 15 0	90,181 15 0	4,822 14 9	89,940 0 0	94,762 14 9	i	:	
North Násik		21,974 0 7	21,974 0 7	693 0 11	22,115 0 0	22,808 0 11	- [	•••	
South Násik		45,223 12 7	45,223 12 7	8,127 14 0		46,639 14 0	1	•••	
Working Plans		796 0 0	796 0 6	35 15 5	1	798 Ø 6		•••	
Direction Famine Fodder.	•••	1,59,807 6 3	1,59,807 6 3	* ###***	1,59,807 6 3	1,59,807 6 8		··· .	
Total, Disbursers		5,02,358 6 11	ō,02,358 <b>6</b> 11	12,544, 13	5,00,431 13 8	5,12,976 10	10,618 8 10		
TOTAL, N. C		6,30,743 15 2	6,30,743* 15	12,733 11	6,42,385 15 8	6,55,119 11	24,375 11 10		
CENTRAL CIRCLE.				•				ļ !	
Contractors.									
Direction · • • • • • • • • • • • • • • • • • •		23,300 0 0	23,300 0 0	2,500 0 (	2,500 0 0 23,300 0 0	23,300 0	D	***	
Famine Fodder. Direction Famine Fodder.	}	10,000 0 0	10,000 0 0	,,,,,,	10,000 0 0	10,030 0	···		
Total, Contractors		33,300 0 0			35,800 0 0	33,300 0			
. Disbursers.					200 0 0	601 2	1. 2 0		
Direction East Khándesh	1	600 0 0 48,631 10 8	48,631 10 8	1,999 14 1	[   47,045 10 6	49,045 9	5 413 14 9		
West Khandesh North Khandesh	•••	70,427 2 0 71,480 13 8	71,480 13 8	2,589 7	72,068 14 7	74,658 5	3   3,177 8 0 1   1.514 10 11	•••	
Poons Sátara	***	66,856 8 2 48,629 10 7	48,629 10 7	977 1 8	48,920 0 0	49,897 1 65,103 14 8	3 1,267 7 1 885 0 5	•••	
Kolába Working Plans	***	64,218 44 1 1,047 7 8		69 7 8	'   ''''\\	1,047 7 8	3	•••	
West Khándes Famine Fodder. Kolába Famine Fodde	b -••	21,226 7 9			38 6 0		1	***	
Total, Disbursers	•••	3,93,157 0 7	3,93,157 0 7	11,136 8 2	3,92,289 10 6	4,03,425 13	10,268 13 1		
TOTAL, C. C.		4,26,457 0 7	4,26,457 0 7	8,636 3	4,58,059 10 6	4,86,725 18	8 10,268 13 1		

FORM No. 27.—Outstandings and Liabilities on account of Contractors and Disbursers for the Forest year 1915-1916—concld.

n n	At compencement of year.	Recoveries in cast and value of supplies and work done during the year.  Rs. a. p.  1,14,910 4 8 85,133 6 8	At close of year.  4  Rs. a. p.  1,14,910 4 8 85,133 6 8	At commencement of year.  5 Rs. a. p.	Payments made during year.	At close of year.	To Department (Outstandings).	By Department (Liabilities).	Rema
SOUTHERN CIRCLE.  Contractors.  Belgaum  Kánara, N. D  Kánara, W. D	At com- nencement of year.	and value of supplies and work done during the year.  Rs. a. p.  1,14,910 4 8 85,133 6 8 52,46 2 3	At close of year.  4  Res. a. p.  1,14,910 4 8 85,133 6 8	At commencement of year.  5 Rs. a. p.  69,582 13 5	Rs. a. p.	7	(Outstandings).	ment (Liabilities).	
SOUTHERN CIRCLE.  Contractors.  Belgaum	Rs.	Rs. a. p. 1,14,910 4 8 85,133 6 8 52,46 2 3	Rs. a. p. 1,14,910 4 8 85,133 6 8	Rs. a. p.	Rs. a. p.				10
CIRCLE.  Contractors.  Belgaum  Kánara, N. D  Kánara, W. D		1,14,910 4 8 85,133 6 8 52,046 2 3	1,14,910 4 8 85,133 6 8	69,582 13 5	,	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Belgaum Kánara, N. D Kánara, W. D	•••	85,133 6 8 52,046 2 3	85,133 6 8		·			} ,	
Kanara, N. D Kanara, W. D	•••	85,133 6 8 52,046 2 3	85,133 6 8		ļ.	,			
Kauara, W. D		52,046 2 3	[	I	1,10,903 8 0	1,80,486 5 5	65,576 0 9	***	].
1		l		. 46,564 13 10	66,600 0 0	1,13,164 13 10	28,031 7 2	•••	
Kanara, S. D.	•••	1100	52,046 2 3	26,868 1 10	71,142 0 5	98,010 2 3	45,964 0 0	•••	
		11,064 0 10	11,064 0 10	10,064 0 10	5,700 0 0	15,764 0 10	4,700 0 0	• • • •	
Kanara, E. D	•••	34,583 <b>9</b> 3	34,583 9 3	7,800 0 0	39,996 0 0	47,796 0 0	13,212 6 9	***	ļ
Kánara, C. D	•••	11,121 0 2	11,121 0 2	******	30,583 10 11	30,583 10 11	19,462 10 9	•••	}
Total, Contractors		3,08,858 7 10	3,08,858 7 10	1,60,879 13 11	3,24,925 8 4	4,85,805 1 3	1,76,946 9 5		
			<del></del>	<del></del>			\- <u></u>		].
Disbursers.					• •				}
Belgaum	•••	90,497 0 0	90,497 0 0	13,329 13 1	87,575 0 0	1,00,904-18 1	10,407 13 1	***	
Dhárwar—Bijápur	•••	35,793 11 6	35,793 11 6	1,221 8 10	36,306 9 0	37,528 1 10	1,734 6 4	•••	·
Kanara, N. D.	***	99,339 6 5	99,339 6 5	9,317 13 3	94,277, 5 9	1,03,595. 8 0	4,255 12 7	***	}
Kanara, W. D	•••	43,496 13 2	43,496 13 2	6,376.12 4	41,003 10 5	47,380 6 9	3,883 9 7	• • • • • • • • • • • • • • • • • • •	
Kánara, S. D	***	40,247 0 8	40,247 0 8	2,244 0 11	39,330 12 3	41,574 13 2	1,327 12 6	•••	ļ
Kanara, E. D	•••	53,883 1 1	53,883 1 1	1,801 3 7	54,909 2 4	56,710 5 11	2,827 4 10	•••	
Kánara, C. D.	•••	14,244 4 5	14,244 4 5	*****	15,120 11 6	15,120 11 6	876 7 1	•••	
Ratnágiri		8,993 11 9	3,993 11 9	57 1 9	3,944 10 0	4,001 11 9	800	}	
Working Plans	•••	2,400 0 0	2,400 0 0		2,400 0 0	2,400 0 0	•••		
Total, Disbursers .	444	3,83,895 1 0	3,83,895 1 0	<b>3</b> 4,348 5 9	3,74,867 13 3	4,09,216 3 0	25,321 2 0	•••	<u> </u>
TOTAL, S. C	•••	6,92,753 8 10	6,92,753 8 10	1,95,228 3 8	6,99,793 0 7	8,95,021 4 3	2,02,267 Î1 5	•••	
SIND CIRCLE.		•		:					
Contractors.							-		
Direction	***	100 0 0	100 0 0		100 0 0	100 0 0			}
Larkana	<b>34</b>	120 0 0	120 0 0	•••••	- 120, 0 0	120 0 0		•••	
Jerruck	•••	130 0 0	130 0 0	¥.5	130 0 0	130.00	*** **	•••	<u> </u>
Hyderabad	•••	120 0 0	120 0 0	*****	. 120 0 0	120 0 0		•••	]
Sukkur	•••	30 0 0	30 0 0	*****	30 0 0	30 0 0	******	•••	
Total, Contractors	· 100	500 0 0	500 O U	*****	500 0 0	500 0 0			}
Dislursers.				\ <u></u>			• • • • •		1
Larkana	•••	25,241 15 0	25,241 15 0	425 15 9	24,955 12 0	25,381 11 9	139 12 3	}	
Jerruck	***	23,069 15 0	23,069 15 0	2,236 2 4	21,865 0 0	24,101 2 4	1,031 3 4	***	
Hyderabad	,•••	22,416 11 3	22,416 11 3	175 11 9	22,360 0 0	, · · ·	1	•••	
Sukkur		35,512, 11 10	35,512 11 10	766 O I	35,233 7 1	, 3	119 0 6	***	`
Total, Disbursers	!	<u></u>	1,06,241 5 1		1,04,414 3 1	l	1,776 11 11	100	
TOTAL SIND CIRCLE.	<del></del>	1.00 743 7 7	1.02.7.1					1 2	
LOIM SIND CINCES.		1,06,741 5, 1	1,03,741 5 1	3,603 18 11	1,04,914 3 1	1,08,518 1 0	1,776 11 11	•••	
GRAND TOTAL	}	18,56,695 13 8	18,56,695 13 8	2,20,2 ₀ 2 0 1	18,75,182 13 10	20,95,384 13 11	2,38,689 0 3		

BOMBAY: PRINTED AT THE GOVERNMENT CENTRAL PRESS.

Administration Reports.

Administration Report of the Forest Circles in the Bombay Presidency, including Sind, for the year 1915-16.

### GOVERNMENT OF BOMBAY.

REVENUE DEPARTMENT.

Resolution No. 7741.

Bombay Castle, 25th June 1917.

Letters from the Deputy Conservator of Forests in charge Sind Circle, No. 1005 dated 18th September 1916, No. 1068 dated 21st idem, No. 1083 dated 22nd idem and No. 1342 dated 23rd October 1916.

Letter from the Conservator of Forests, C. C., No. 1400 dated 2nd October 1916. Letter from the Conservator of Forests, N. C., No. 1401 dated 5th October

1916. Letter from the Conservator of Forests, S. C., No. 2876 dated 19th October 1916. Forwarding the Forest Administration Reports of their respective Circles for the year 1915-16.

Memorandum from the Commissioner, S. D., No. 4481 dated 11th October 1916—Forwarding his remarks on the Forest Administration Report of the Central Circle for the year 1915-16 so far as the Kolába Division is concerned.

Memorandum from the Commissioner in Sind, No. 2959 dated 14th October 1916—Forwarding his remarks on the Forest Administration Report of the Sind Circle for the year 1915-16.

Memorandum from the Commissioner, N. D., No. F.O.R.—47 dated 23rd October 1916—Forwarding his remarks on the Forest Administration Report of the Northern Circlé for the year 1915-16.

Memorandum from the Commissioner, S. D., No. 4856 dated 31st October 1916—Forwarding his remarks on the Forest Administration Report of the Southern Circle for the year 1915-16.

Memorandum from the Commissioner, C. D., No. Genl.—1401 dated 15th November 1916—Forwarding his remarks on the Forest Administration Reports of the Northern and Central Circles for the year 1915-16 so far as the areas in the Central Division are concerned.

Resolution.—During the year 1915-16 the total forest area decreased from 15,060 square miles to 15,018 square miles of which 13,985½ square miles were reserved and 1,032½ were protected forests. The main reason for the diminution of 42 square miles was the disforestment in the interest of cultivation of 39 square miles of pasture forests in the Ahmednagar and Sholápur districts. The figure from the Southern Circle was reduced by a change of 13 square miles due to rectification of errors in survey and remeasurement of certain areas. Small areas amounting to ½ square miles in the Central Circle and 2 square miles in the Southern Circle consisting of isolated numbers within the demarcation line were afforested during the year. In Sind the surplus of additions over exclusions, mainly caused by alluvial accretion, was 8 square miles. The area in charge of the Revenue Department decreased from 2,627 to 2,537 square miles owing mainly to the retransference of land in West Khándesh to the Forest Department for the preservation of tree growth and production of grass for grazing. There were few alterations in charges during the year. 169 square miles of reserved forest were transferred from North Násik to South Násik, while in the Southern Circle the Dhárwár and Bijápur Divisions were amalgamated and

- a fifth Forest Division was formed in Kárwár. The work of settlement in the Presidency proper is practically complete and was confined to the small areas added to the forests. The question of the settlement of the area proposed for afforestation in the Kánara and Belgaum districts is under consideration. In Sind the area awaiting settlement was reduced from 7,772 to 673 acres, the progress made being very satisfactory. The boundaries of 1,343 miles of forests were demarcated during the year leaving 1,131 still to be done. The greater portion of this is in the Central Circle, particularly in the Akola and Rajur ranges of the Poona Division where 658 miles remain to be completed. A very satisfactory amount of demarcation was done in the South Kánara Division of the Southern Circle. No surveys were undertaken during the year with the exception of the usual survey of the river frontages in Sind.
- 2. The progress made with working plans during the year was not very striking, only 50 square miles being added to the area under working plans, while revised plans were sanctioned covering an area of 265 square miles. Working plans for 1,013 square miles are under preparation while revisions. of plans affecting 2,366 square miles are in progress. The working plan of the South Dángs forest was completed during the year while a revised working plan was introduced in the Eastern Maháls. The plans sanctioned in the Central and Southern Circles were not of great importance. In the Southern Division the control work is reported to be considerably in arrears chiefly owing to difficulties of transport, and also in some cases to scarcity of money and labour. It is hoped that the arrears will be reduced by the improvement of transport by the work in progress and in contemplation in the beds of the Kaneri and the Kalinadi rivers. In the Eastern Division of Kánara, the arrears can only be reduced by the improvement of communications, and the construction of a Light Railway for which a preliminary survey has been made is strongly supported by the local officers. In Sind the whole area is under sanctioned working plans but a large amount of revision is necessary and is in progress.
- 3. The expenditure during the year on communications and buildings was greatly cut down owing to the financial stringency and amounted to Rs. 1,06,347 against Rs. 1,89,515 in the previous year. The sum spent on new works was only Rs. 47,766 against Rs. 1,19,384 in the previous year. Two-thirds of the expenditure was incurred on improvements of roads and pathways, work on new buildings being reduced to a minimum. In the Northern Circle attention is drawn by the Conservator to the necessity for developing the Peint ranges. In the Central Circle considerable improvement was effected in the communications in the Akráni tract. The recommendation of the Conservator regarding the alignment of the Public Works Department road between Dhadgaon and Taloda in North Khándesh will be taken into consideration. The Conservator doubts the wisdom of the forest road proposed to be constructed in the Koyna valley. Mr. Napier's further conclusions in the matter should be submitted to Government through the Commissioner. The expenditure in Sind was, as usual, chiefly on small irrigation works. In addition to the expenditure of Rs. 1,238 on new works the Public Works Department constructed sluices for the forests costing Rs. 4,720.
- 4. The number of offences against the forest rules was 22,444 against 21,822 in the previous year, being an increase of 622. In the Northern Circle there was an increase of 353 but the number was below the average of the previous three years. The increase was due to a rise in the Panch Maháls by 526 cases due to the influx of cattle from Káthiáwár and Gujarát, the owners of which disregarded the forest rules laid down. In South Násik, on the other hand, there was a decrease of 224 cases, but the Conservator regards the decrease here, as in Sálsette, as due to slackness in reporting. The Conservator considers the present staff to be insufficient, especially as regards the number of Rangers, to check the offences that occur. In the Central Circle there was a decrease of 926 cases. It is satisfactory to note that the setting aside of coupes, for the special supply of coast towns and villages in the Kolába Division reduced the illicit trade and consequently the number of offences. In the Southern Circle there was a small decrease of 174 cases, but

the Conservator points out that such variations cannot be relied upon as the number of offences reported represents only a fraction of those that occur. In Sind there was a considerable increase from 3,237 to 4,606 cases. This was due to the abnormally low inundation and the influx of cattle from the hills, the owners of which not only broke the ordinary forest rules but in many cases caused fires to get green grass for their animals. Generally speaking, the offences in the Presidency were not of a serious nature, a comparatively small number having to be taken to Court. The high percentage of convictions obtained in these cases shows that they were brought with proper care. In the Southern Circle there was a good deal of looting of timber and 38 offenders were convicted in one case. In the same circle there were two cases in which subordinates were convicted of taking bribes in connection with offences against the forest. The effect of communal punishment where it was necessary to be employed is reported to have been good.

- The number of fires increased from the low figure 1,717 of the previous year to 1,939 while the area increased from 279,166 to 414,457 acres. In the Northern Circle the number of fires and the area burnt decreased. In the South Thána Division the number of destructive fires continued large and was undoubtedly due, in many cases, to the connivance of the Forest Guards who belong to the local wild tribes. In the Central Circle there was a decrease of 33 cases and of 30,000 acres, but, as the Conservator remarks, there is still much room for improvement. In Poona and Sátára where the grass is valuable there were no fires except in land leased to the Military Department where the villagers had less personal interest in preventing and extinguishing fires. Some progress was again made in the checking of fires in Khándesh, but the scanty population of the country, the highly inflammable nature of the grass, the careless habits of the wild tribes and the thoughtlessness of persons with privileges in the forest combine to make fire-prevention difficult. These causes were specially noticeable in East Khándesh where the area burnt increased from 44 to 70 thousand acres much of which was caused by careless-The Conservator's proposals for checking the licenses allowed to villagers will be awaited. It is satisfactory to note the steady improvement observable in the West Khándesh district, particularly in one area inhabited and surrounded by Bhils, where it is stated to be mainly due to the personal influence of a Bhil Round Forester. In the Southern Circle the area burnt increased very largely from 40,759 acres to 213,959 acres, the number of fires being 982 against 696. In Kánara the year was the worst for fires for 10 years, the causes assigned being an exceptionally dry hot weather and the very large number of dead bamboos which still remain in the jungles. These causes were aided by the continued apathy of villagers in the extinguishing of fires. In Sind the number of fires increased from 46 to 163, but the area burnt, 6,451 acres, was comparatively small. The reason for the increase was the low inundation which not only rendered the grass much drier and more inflammable than usual but also, as already noted, led to an influx of cattle from the hill districts and from Cutch, the owners of which freely set fire to the forests in order to obtain green grass.
- 6. The number of cattle impounded was 142,970 against 135,394 in the previous year. The increase was confined almost entirely to the Northern Circle where there was a large influx of cattle from the surrounding areas of scarcity where also it was necessary to take special steps for the protection of the local grass crop. In the Central and Sind Circles there were small increases in the number impounded while the impoundings in the Southern Circle show a considerable decrease. It is satisfactory to note that in some of the Sind divisions the graziers are appreciating the advantage of paying a yearly grazing fee. It does not appear that the efforts to catch the semi-wild cattle in the Sind forests have yet met with much success. The amount realized in grazing fees was Rs. 3,19,710 against Rs. 3,03,612. This was due to the larger numbers brought in for grazing purposes, the number of cattle permitted to graze on payment of either full or privileged fees being 1,935,655 against 1,775,413 in the previous year, while the number of animals allowed free grazing was 541,769 against 502,142 in the previous year. The increase is probably largely due to the number of cattle brought in from areas of

scarcity. The amount of fees that would have been realized had grazing been charged at full rates would have been Rs. 19,66,743.

7. The damage due to causes other than those noticed was not great. The growth of prickly-pear is complained of in the Central and Southern Circles and of lantana in the Southern Circle. As pointed out however by the Conservator elsewhere, lantana may have its uses not only in assisting the growth of young sandalwood but also in checking forest fires. Elephants are stated to have done a certain amount of damage in the Southern Circle. In Sind damage was done by severe frosts, while, as usual, in a year of low inundation the number of rats increased and did considerable harm in the forests.

- The natural reproduction from seed is reported to have been good in - all circles especially in the Southern, where it was the best for many years. Reproduction by coppice was also satisfactory though hindered by fires in the Southern Circle. The Divisional Forest Officer, Kanara Northern Division, however, reports that the degree of damage depended upon the age of the coupe and that in a coupe where the coppice stood about 12 feet high a number of teak-seedlings about a foot high, though all burnt, threw up fresh shoots more vigorous than the original plants. The success of artificial reproduction in the plantations of casuarina seems to have been very varying. The system of agriculture cum forestry in the Central Circle succeeded in Poona, but was a failure in West Khandesh, largely owing to the inferiority of the Bhil as a cultivator. In the Southern Circle it was successful in one coupe and unsuccessful in another while in Sind the results were fair. In North Kánara the tending of 2½ lakhs of natural teakseedlings by weeding and mulching is stated to have been very satisfactory. In Sind successful work appears to have been done with cuttings of tali while the sowing of babul and kandi seed appears Little was done in the way of fresh experiment. to have given good results. The result of the trial of teak and jamba for paving blocks for the Bombay Municipality is not yet known. A further attempt was made to grow bamboo in Sind, but though the seed germinated the experiment is very doubtful. The attempts to cultivate lac in the Khándesh district were again unsuccessful owing to the destruction caused by black ants. The artificial propagation of lac in the Sind Circle was also unsuccessful, but the quantity is stated to be increasing naturally in some parts and the prospects seem fairly hopeful.
- The departmental extraction of timber was very little resorted to in the Northern and Southern Circles and in Sind, where it was confined to the supply of fuel to Government steamers. In the Southern Circle the percentage of timber exploited to the total outturn was 55 against 53 in the Great difficulty was experienced in getting contractors previous year. to take up new work. While there can be no doubt that the extension of departmental control would be remunerative, an increase of staff and improvement of communications are necessary. The latter question is under the consideration of Government. The two Government saw-mills in the Northern Division of Kanara did not do so well as in previous years owing to the necessity of closing down one mill for three months and of moving both The net income, however, was Rs. 7,373 and better mills to fresh sites. results are hoped in the future. A contractor's saw-mill was re-opened in the Eastern Division of Kánara and did some useful work. The year's results of the charcoal-making experiments carried on by Mr. Hodgson are not mentioned in the report.
- 10. The gross revenue realized during the year amounted to Rs. 47,36,661 while the expenditure (revenue, and expenditure on account of famine fodder operations being excluded) was Rs. 24,71,326, leaving a surplus of Rs. 22,65,335, an increase of nearly Rs. 94,000 on the previous year. In the Northern Circle there was an increase in receipts and decrease in expenditure, the surplus revenue thus increasing by about Rs. 48,000, but the timber trade is stated to have been dull and the increase is largely due to better outturn from the saw-mill in the Surat Division. In the Central

Circle the revenue was practically identical with the previous year showing a small decrease of Rs. 5,000 on a gross revenue of nearly 8 lakhs. The expenditure, however, decreased by nearly Rs. 30,000 resulting in a net increased surplus of Rs. 24,500. The demands on the forest supply in Poona and Kolába are stated to have been large and to guarantee an increase in revenue. In Khándesh, on the other hand, there was stated to be an absence of demand for timber owing to the war. Since the close of the year there has been a sharp rise in the price of timber and better results should, therefore, follow. The improved results from the Kolába forests are especially satisfactory since their proximity to Bombay greatly enhances both their value and their utility. In the Southern Circle there was a net increase of over half a lakh in the surplus; both revenue and expenditure increased. The receipts notwithstanding the fall in prices and the temporary congestion of the timber market were 11 lakhs more than in the previous year, the increase being due entirely to the larger quantities of materials exploited and exported. This quantity could be largely increased with improved methods and facilities of extraction. The expenditure increased by Rs. 73,000, but this was chiefly due to larger payments of wages for labour and fuel extracted. In Sind there was a decrease of revenue by about Rs. 39,000 while the expenditure only decreased by Rs. 7,000 leaving the The decrease in revenue is ascribed to the surplus smaller by Rs. 32,000. collection of coupe revenue being spread over this and the succeeding year while poor results were obtained by the sale of some coupes in the Jerruck Division. It may be assumed that owing to the great demand for fuel that has since arisen in Sind this decrease in revenue has proved only temporary. On the whole the financial results appear to have been extremely satisfactory considering that during the period covered by the report there was considerable dulness in the timber trade and congestion of stocks and having regard also to the smaller staff available for supervision.

- 11. Although the fear of extensive scarcity was fortunately falsified by the heavy falls of rain late in 1915, a considerable amount of work connected with the prevention of famine was thrown upon the Forest Department. Not only were large numbers of outside cattle provided with grazing whereby their lives were saved in the forests of the Northern Circle and of Sind but extensive grass operations had to be undertaken in the Northern and Central Circles. The utility of the forest as a reserve against famine was once more proved.
- 12. The Department worked under considerable difficulties owing to officers being taken away for military duties and this difficulty has been accentuated since the completion of the year under report. The subordinate staff proved in some respects deficient both in the number of Rangers and in the quality of the work of some branches, more especially of the Foresters. The Governor in Council is pleased to record his opinion that the administration of the Department, in view of the difficulties that had to be met, reached a high level of efficiency during the year.

### A. F. L. BRAYNE,

Under Secretary to Government.

G. R. No. 7741, R. D., dated 25th June 1917.

'To

The Conservator of Forests, N. C.,

The Conservator of Forests, C. C.,

The Conservator of Forests, S. C.,

The Deputy Conservator of Forests in charge Sind Circle,

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The Commissioner in Sind, The Commissioner, N. D., The Commissioner, C. D., The Commissioner, S. D., All Collectors, including the Deputy Commissioner, Upper Sind Frontier, The Director of Agriculture and of Co-operative Societies, The Settlement Commissioner and Director of Land With copies of Records, The Accountant General, The Compiler, General Administration Report, The Secretary, Indigenous Industries Committee, The Oriental Translator to Government, The Public Works Department of the Secretariat, The Separate Department of the Secretariat (for the Reading Room for the non-official members of the Legislative Council), The Editors' Tables, The Government of India, The Under Secretary of State for India.

the Report.