# Administration

Report of the Forest Circles in the Bombay Presidency including Sind for the year 1912-1913

# Government

# ADMINISTRATION REPORT

of the

# FORESTCIRCLES

IN THE

# BOMBAY PRESIDENCY

INCLUDING

# SIND

# FOR THE YEAR 1912-1913,

BOMBAY PRINTED AT THE GOVERNMENT CENTRAL PRESS 1914 Digitized by M. H. Panhwar Institute of Sindh Studies, Jamshoro. پاران ایم ایچ پنہور انسٽيٽيوٽ آف سنڌ اسٽڊيز، ڄامشورو.

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# ADMINISTRATION REPORT OF THE FOREST CIRCLES IN THE BOMBAY PRESIDENCY, INCLUDING SIND, FOR THE YEAR 1912-1913.

CONSERVATORS IN CHARGE OF CIRCLES DURING THE YEAR.

#### Northern Circle.

W. F. D. Fisher, Esquire, 1st July 1912 to 27th January 1913.

G. E. Majoribanks, Esquire, 28th January 1913 to 13th February 1913.

G. R. Duxbury, Esquire, 14th February 1913 to 30th June 1913.

#### Central Circle.

The Honourable Mr. G. P. Millett, 1st July 1912 to 18th April 1913.

O. H. L. Napier, Esquire, 19th April 1913 to 30th June 1913.

#### Southern Circle.

- T. R. D. Bell, Esquire, 1st July 1912 to 19th October 1912 and 21st April 1913 to 30th June 1913.
- O. H. L. Napier, Esquire, 23rd October 1912 to 16th April 1913.
- W. E. Copleston, Esquire, 20th October 1912 to 22nd October 1912 and 17th April 1913 to 20th April 1913.

Deputy Conservator of Forests in charge Sind Circle.

E. G. Oliver, Esquire.

#### CHAPTER I.

#### CONSTITUTION OF STATE FORESTS.

(1) Alteration in Area.

#### ' Northern Circle.

Changes in forest areas during the year are exhibited in Form No. 7 appended, the net result being a decrease of 660 acres.

The following are the details :----

#### Reserved Forest.

Panch Mahals.—One acre added (rectification). 21 acres excluded for a light railway, and five acres for a Public Works Department road in Halol Taluka.

Central Thána.-One acre added for a rubber plantation.

Kolába.—Thirty-six acres disforested, 28 acres of old graveyard land in Panvel, the rest for the Tata Hydro-Electric Scheme and land near village sites.

Ahmedabad,-952 acres disforested in the Modasa Petha for cultivation.

### Protected Forest.

North Thána.-Six acres excluded for Government building sites and cultivation.

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Form 7.

Central Thána.—Four hundred and nineteen acres added being woodland plots forfeited for arrears of assessment. 12 acres excluded for the G. I. P. Railway.

South Thána.-Two acres excluded for Police lines.

Kolába.-Eleven acres added; 58 acres excluded partly for the Hydro-Electric Works, partly for convenience of village gaothans.

### Leased Forest.

No change.

#### Central Circle.

There was a net decrease in the forest area of 13 square miles 21 acres, details being shown in the table below. The decrease was mainly represented by lands at the foot of the Satmala hills in the East Khándesh Division, disforested in the interests of cultivation in accordance with Government Resolution. No. 9360, dated 15th October 1910. Other alterations consisted of minor afforestations and disforestments throughout the Circle, details being shown in Form 7.

The reserved forests in the Poona District, which, under the orders of Government, are transferred to the management of the Revenue Department, were not taken over during the year by the Collector, as the necessary arrangements for dealing with them had not been made.

Class of Forest.		Area on 1st July 1912.		Added during the year.	Excluded during the year.	Ares on 30th June 1913.	
Reserved Protected Leased		Sq. m. 6,193 99 0	acres. 124 236 232	Sq. m. acres. 1 303 	Sq. m. acres. 14 324 	Sq. m. 6,180 99 0	acres, 103 236 232
Та	otal	6,292	592	1 308	14 324	6,273	571

#### Southern Circle.

If transfers between divisions are excluded the year has resulted in an increase in reserved forest area as shown below :---

Class of Forest.			Area on 1st July 1912.	Added during the year.	Excluded during the year.	Area en 30th June 1915
Reserved Protected	•••	•••	Acres. 2,852,145 92,205	Acres. 1,508	Асгев. 1,148 2	Acres. 2,852,505 92,203
	Total	•••	2,944,350	1,508	],150	2,944,708

The additions to reserved forests occur mainly in the Kanara Southern and Dhárwár Divisions and are mostly Government assessed waste lands relinquished by occupants during the last ten years or so. All these and a few more in other divisions, wedged in between existing patches of jungle, were afforested.

The chief exclusions from reservé are :--(1) in Belgaum 320 acres 17 gunthas were handed over to Gokak Mills and 227 acres 36 gunthas in Halsi, táluka Khanapur, were disforested as fit for grazing and dry crop and (2) in Dhárwár, 525 acres and 34 gunthas of pasture land in Karajgi and Ranebennur tálukas were disforested to meet agricultural demands.

The other exclusions are minor, in favour of cultivation or house building.

The only change in the protected forest area was the exclusion of 2 acres and 9 gunthas in Siddapur and Yellapur tálukas in Kánara for the extension of garden cultivation.

Besides the above an interchange of areas was effected between Kánara Northern, Eastern and Western Divisions in order to form a new (Kadra) Range in the last Division to facilitate the working of the Kálinadi Slopes Forests, Block XXIV. The areas contributed are:--

١	Kánara Northe	rn Division	•••	. •••	-	<b>34</b>	- Reserved f Protected	•
	Kánara Eastern	n Division		***	5,176	23	Reserved	do.

This interchange did not affect the total forest area of the Circle.

#### Sind Circle

The alterations in area are :---

Class of Forests.		Area on 1st July. 1912.		Added during the year.		Excluded during the year.		Area on 30th June 1913.		
•			Sq. m.	acres.	Sq. m.	acres.	Sq. m.	acres.	Sq. m.	acres.
Reserved		•••	1,131	461	85	493	31	426	1,135	528
Protected		•••	. 0	585	-		•••••		0	58 <b>5</b>
· ,	Total		1,132	406	35	493	31	426	1,136	473

The additions are 22,454 acres of alluvial accretion, 274 acres fresh reservation and 165 acres by rectification of area.

The exclusions are 20,037 acres eroded, 212 acres disforested and 17 acres by rectification of area.

The eroded area is classified thus :---

Growing valuable timber 1,970 acres, new alluvium without trees 13,668 acres, new alluvium with young growth 759 acres, coupes under regeneration 1,031 acres, blanks 2,609 acres. Total 20,037 acres. In the previous year the total erosion was 16,153 acres.

Value of material exploited from eroded areas (vide Government Resolution No. 804 of 2nd February 1900).

			Acres	•		
Approximate area eroded after exploitation		***	1,915		•	
		`	Rs.	8,	p.	
Value per acre as estimated prior to erosion	•••				1	
Estimated value of timber before exploitation	***		8,268			
	•••	•••	8,158	5	2	

Fifty-five acres in Sukkur containing growth worth Rs. 151 were eroded before exploitation was possible.

One thousand six hundred and nine acres threatened with erosion were exploited. The material was sold for Rs. 17,063-13-4.

Acquisition of kachas adjoining forests :---

Claims brought over from last year 15, new claims during the year 26. Decided in favour of Forest Department 26, against the Department 1, still undecided 14.

Acres 8,748 gunthas 36 were temporarily alienated to other Departments.

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#### (2)—Forest Settlements.

#### Northern Circle.

Forest Settlement work is practically complete in this Circle. A few areas are notified forest as opportunity occurs. Details under this head are as follows :---

Panch Maháls.—Seventy-one acres and 20 gunthas of land in the Godhra Range were actually notified under section 19 during the year though the area was added to the Range in 1907.

Surat.—In Mandvi Range, 135 acres and 24 gunthas were relinquished by the occupants of 26 villages for cash compensation of Rs. 373. The Conservator is to inspect Bulsar-Chikhli forests and report on the question of further acquisition or disforestment during the coming working season.

Kolába.—Eighteen acres were notified under section 4, Indian Forest Act, in Akshi, Alibág táluka, for a Casuarina plantation, while 25 acres have been selected in Alibág and Varsoli villages for a similar purpose, and proposed for notification.

Twenty-seven acres of land assigned for in-forest cultivation in the Roha táluka and 11 acres in the Khálápur Petha lapsed under the dalhi settlements to Government in consequence of the failure of direct heirs or of the emigration of right-holders.

#### Central Circle.

Rs. 1,230 were paid on account of compensation for small areas acquired in various divisions throughout the Circle, such areas consisting generally of numbers situated inside the reserves or within the demarcation line. With this exception no money was spent on settlement. The area of proposed forest, notified under section 4 of the Forest Act and awaiting settlement at the close of the year, stood at 6 square miles 156 acres.

#### Southern Circle.

Nothing was spent on Forest Settlement work which was chiefly limited to submitting notifications for areas referred to in Section (1).

#### Sind Circle.

	Area awaiting set Area added by no	ttlement at contraction un	omme ider se	ncem ection	ent of 4 of	the year the Indian	Forest A	ء ••• Act	Acres. 6,552 32,152
•			\$		~	•	Total	•••	38,704
	Actually settled Balance awaiting	tee Bottlamant	•••		•••			•••	274
-	Expenditure	sectionent	***		***	•••	•.	•••	38,430
		*** *	•••	,	•••	•••		•••	Nil

(3)—Demarcation.

### Northern Circle.

A new calculation of the existing work to be done shows 493 miles Form 9. In the Kolába Division and 7 miles in the Panch Mabals.

Surat.—The revision of the Dangs boundary has been completed during the year by a surveyor deputed from the Land Record Office, a traverse survey of four miles of Násik and 22 miles of West Khándesh boundaries being carried out, and boundary marks constructed at a cost of Rs. 196.

In the Dangs, 309 new coirns were put up between reserved and protected forests (internal boundaries) for Rs. 291, and 827 half cairns were converted into whole cairns for Rs. 210.

Kolába.-170 miles were newly demarcated at a cost of Rs. 1,961, 1st class cairns being built at main angles only.

In other divisions, work was confined to the repair of existing boundary marks.

#### Central Circle.

One hundred and forty-three miles of new boundary were demarcated during the year at a cost of Rs. 1,234, while 4,931 miles of boundary already completed were kept in repair at a cost of Rs. 1,817, the total expenditure thus being Rs. 3,051. The amount of outstanding work is now shown in Form No. 9 to be 1,096 miles, of which 43 miles are in the North Násik Division, 935- miles in South Násik, 51 miles in Poona and 67 in Sátára. The work in North Násik will be completed during the coming year; in Poona the figure includes lands which are due for transference to the Revenue Department, and there really only remain for demarcation some 16 miles of boundary of lands which will remain in charge of the Forest Department; this also will be completed during the year. In Sátára though 67 miles are still shown as requiring demarcation, it is reported that the remaining work consists chiefly of the erection of supplementary marks on lines already demarcated, though imperfectly so, rather than of totally new work. Next year's report should show that all work has been completed in this division also. In South Násik alone progress is unsatisfactory. The major part of the work still to be carried out is in the Akola and Rájur Ranges of the old Ahmednagar-Shelápur Division. In the year under report work was much hampered by the illness of surveyors, and by their presence being required on other work, viz., coupe demarcation. To cope with the outstanding demarcation, it would be advisable to engage several special men, and to employ them on nothing else, but under the present conditions of surveyors' service, it is found impossible to keep the permanent staff up to strength, much less to obtain men for special work. The question of the recruitment of surveyors is now before Government.

Southern Circle. The details of work, done and expenditure indurred under this head are shown in Form No. 9. : .

New demarcation amounted to 30 miles of outer boundaries and 80 miles of internal boundaries. The former cost Rs. 281, or 9.3 per mile and includes 7 miles of Mysore frontier in Kánara Southern Division, which alone costs Rs. 16 a mile owing to the hilly nature of the country. The latter comprised the demarcation of betta lands also in Kánara Southern Division, and was done at a cost of Rs. 2.25 per mile-being easy work.

The demarcation work in general has been hampered very much owing to the scarcity of trained surveyors at terms offered.

#### Sind Circle.

External boundaries .--- Twenty miles and 4,627 feet were demarcated by 323 new boundary marks in newly afforested areas. Eighteen thousand eight hundred and four old boundary marks on 2,067 miles and 3,909 feet of line were repaired. Expenditure nil.

Internal boundaries.-The forests are cut up into half mile squares by rides 20 feet wide. Four miles and 1,089 feet were cut in Jerruck Division at an average cost of Rs. 19-11-10 per mile. Two miles were cut by contractors in return for the material obtained from the line, and three miles on new kachas. Two thousand six hundred and thirty-nine miles of previously cut rides were kept clear by free labour. If paid for, this would cost Rs. 5,278-0-0.

An area of 124,023 acres still remains undivided into half mile squares. This consists almost entirely of newly formed kachas, the growth on which is at present very small. Lines will not be cut on these lands till the growth is bigger.

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# (4) Forest Surveys.

### Northern Circle.

Form 10. No Forest Survey work was carried on aurug

Expenditure under the head "Constitution of State Forests" for the Circle shows:---

						Rs.
Acquisition of land		• • •			•••	2,362
Settlement offices	***	•••	499 Å		•••	28
Demarcation, new and old	<b>■●●</b> : 2 5				•••	<b>4,94</b> 8 1,750
Surveys, including cost of	reprinting	maps	***		••••	
<b>x</b> <sup>1</sup>				Total		9,088

#### Central Circle

None were undertaken.

#### Southern Circle.

No new work was undertaken and no expenditure on account of surveys or printing of maps was debited against the Department.

The total expenditure on the constitution of State Forests was Rs. 4,893 as compared with Rs. 1,953 in 1911-12.

#### Sind Circle.

None in the strict sense of the term. Each division had one surveyor, who, in addition to his ordinary work, had to survey all erosions and accretions. The work of a surveyor in this Circle is far more varied, difficult and responsible than in the others and there is more of it. One surveyor to each division is inadequate. A lot of survey work is consequently throws on the Range Forest Officers, withdrawing them from their legitimate duties. Extra surveyors have been applied for.

#### CHAPTER II.

### MANAGEMENT OF STATE FORESTS.

## 1.-REGULATION OF MANAGEMENT.

# (a) Preparation and Control of regular Working Plans.

#### Northern Circle.

A working plan for the North Dangs was submitted by the Divisional Form 11. Form and is based on the system of improvement fellings. With the exception of the Central and South Dangs forest (an area of 497 square miles) South Dangs will be prepared during the next season.

The surveyors of the Working Plans Office were distributed among the divisional offices, each officer controlling the laying out of coupes in his division It is proposed to appoint an Imperial Officer to the Working Plans Office this season both to superintend sylvicultural works required in exploited coupes and to report on results of working in those forests where the last decade o working is shortly to be commenced under the original working plan. Coupe under existing working plans were worked except where the growth was too thin or the area difficult of access.

The improvement of means of communication both as regards major roads to be constructed by the Public Works Department and minor roads by the Forest Department is being kept in view. 57 coupes in the Circle remained unsold on account of their inaccessibility out of a total of 380.

A slight change in the methods of disposal of produce under the Kolába Working Plan in order to secure cheap firewood and agricultural implements for the people was again made during the season under report.

No Plan will lapse within the next three years.

#### Central Circle

The Igatpuri and Sinnar Teak and Fuel Working Plan was sanctioned under Government Resolution No. 10888, dated 4th November 1912.

No fresh plans were submitted for Government sanction during the year.

The Divisional Forest Officer, Working Plans, was engaged in the past working season on the preparation of a plan for the Satmala Reserves in the East Khándesh Division. Data had been collected for the same three years back, but the extensive disforestments that subsequently took place necessitated the whole area being reinspected. This plan will shortly be submitted to Government. He also inspected the Transpurna Babul Forests in the Edlabad range of the same division with a view to the revision of the existing working plan.

A plan for the working of the Anjan Forests on the Dhulia and Pimpalner ranges was drawn up by the Divisional Forest Officer, West Khándesh, but was returned by the Conservator for amendment in various respects.

The prescriptions of existing plans were worked up to with a fair degree of accuracy, but dearth of labour, dislocation of trade consequent on scarcity in some divisions, absence of water in the forests and scarcity of fodder necessitated many deviations being made in the way of extensions of contracts for felling and removal of material from coupes, withholding of coupes altogether from sale owing to poor demand, and the throwing open to grazing of areas which should have been under closure for regeneration purposes.

Last year's report brought to the notice, of Government, the necessity for the appointment of a trained officer to the Working Plans Division, and the re-marks then made can only be repeated. Revision of many plans is urgently called for, but all that can be done at present is for Divisional Forest Officers to collect the necessary data, and this is being undertaken in nearly every Division. To give specific instances, the plans of the Shirpur-Shahada forests in North Khandesh, and those of the Chopda-Yawal-Raver forests in East Khandesh, which were drawn up some 14 years ago, are now thoroughly unsuited in their prescriptions to the changed conditions of the markets for forest produce, to the state of the labour market, and to the condition of the forests themselves. The size of the coupes militates against good and up to time working by contractors themselves, against efficient supervision over their work by the Forest staff, and against the possibility of new men of small means being able to take up contracts at all. Work is confined to far too few centres, and competition is confined to a few men who take areas far larger than they can manage, and exploit them by fair means or foul to their own profit but not to that of the forest growth. The conditions of all these forests are similar, and Mr. Dodgson, recently Divisional Forest Officer in North Khandesh, has collected data which could be applied by a trained Working Plans Officer to all of them. In the Poona Division the felling arrangements prescribed under existing Teak and Babul Forest Plans will be upset in many instances by the handing over of various areas to the Revenue Department, and here too the Divisional Forest Officer is going into the matter with a view to revision. But this is properly speaking the work of a regular Working Plans Officer.

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# Southern Circle.

New Plans. -Two new plans were sanctioned during the year :-

(1) Ankola-Kumta Coast Fuel Plan, area 58.77 sq. miles, cost Rs. 135-11-9 per sq. mile, system of working being "Coppice with standards."

(2) Soppinhosalli High Forest Plan, area 17.9 sq. miles, cost Rs. 365-11-3 per sq. mile. System is "Selection felling ".

Plans under preparation :-

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(1) Sirsi Town Fuel Plan, 12.98 sq. miles, has been accepted and is now in press. The provisions are, however, being carried out.

(2) Plans for the Yekambi High Forests, and

(3) for the forests of Kalghatgi, Bankapur and Hangal in Dhárwár Division are being written.

(4) Honávar-Bhatkal Fuel Plan is not yet completed.

(5) Gokák Working Plan has been drafted and is under discussion.-

Nos. 1 to 4 are done by Mr. Aitchison, Divisional Forest Officer, Working Plans, and No. 5 by Mr. Hodgson, Divisional Forest Officer, Belgaum.

The Divisional Forest Officer, N. D. Kánara, reports that the successful protection from fire of the teak area has changed the conditions since the present : plans were made. The yield has increased about six times and two plans have, therefore been recommended to Government for revision.

Control -The provisions of existing plans were carried out as far as the supply of labour and demand for the produce would admit. In Kanara Northern Division girdling was postponed in Gund range as a large number of alr eady-girdled trees had remained unexploited. Standards marked in 2 coupes of the Haliyal Teak Pole area were hollow and unsound and clear cutting was ordered instead of coppice with standards. The work in Block XIII, Eastern Division Kanara, was behind-hand owing to labour difficulties combined with an epidemic of cholera. The provisions of the plan for the Kárwár fuel reserves and of the Ankola-Kumta Coast Working Plan in W. D. Kánara had to be somewhat curtailed owing to lack of demand.

In the Belgaum Division by the introduction of a change in the agency of exploitation it is expected to overtake arrear work in the Nagargali High Forest Working Plan. The Khánápur fuel plan is less in arrears than it was a year ago, due to improvements introduced in the method of working the coupes.

#### Sind Circle.

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Except new kachas and recent reservations all forests in Sind are under regular working plans. The prescriptions of the plans were adhered to with the following exceptions :---

Sukkur and Naushahro Divisions.-Burnt areas and those threatened with erosion were exploited instead of some prescribed coupes.

Hyderabad Division.—The sanctioned plans were suspended in three ranges (as authorized by Government Resolution No. 10562, dated 26th October 1907) to permit removal of dead wood.

Jerruck Division .- Dead wood was sold in addition to the prescribed 2.2 coupes.

The Working Plans Division was held by the Deputy Conservator of Forests in charge of the Circle in addition to his own duties for most of the year. Consequently no revision of the plans could be carried out. And this revision work is most urgent in Sind where erosion is liable to upset the best , laid plans within four or five years. Government have recently ruled (Government Resolution No. 7084, dated 30th July 1913) that-

"Each Divisional Forest Officer in Sind should be able to maintain or revise the conduct of working plans in his own division and that therefore the continuance of a separate Working Plans Division in Sind is unnecessary. No provision has been made in the cadres as at present sanctioned. Instead of reviving the appointment of Working

Plans Officer, Sind Circle, from time to time whenever an officer happens to be available to fill it, Government consider that it will be more convenient to depute such officer to assist one of the Divisional Forest Officers in his work in connection with working plans."

As long as an extra officer is available to help the Divisional Forest Officer this idea will work all right, though Government will not save any money by it. When the extra officer is not available the revision of working plans will come automatically to a stand-still, for, as frequently pointed out, an officer in charge of a Forest Division cannot revise working plans unless he neglects his important divisional work to a large extent.

## (b).-Preliminary Working Plan Reports.

#### Northern Circle.

A preliminary report on the method of treatment proposed to be adopted for the North Dángs was submitted to the Conservator.

#### Central Circle.

Nil—but a simple scheme was drawn up for regulating the free extraction of firewood by the villagers of the Akrani in North Khándesh and with the approval of the Conservator and Collector is to be brought into force in the coming season.

#### Southern Circle.

No preliminary reports were submitted during the year. In consequence of a demand arising for junglewoods from Kánara Eastern Division, data has been collected for a plan for forests around Yellápur forming 13 compartments. A valuation survey of the growing stock has also been made.

Three more plans are in contemplation for the Belgaum Division and proposals are being formulated :---

(1) Belgaum Range Working Plan.

(2) Khánápur West Range Plan.

(3) Khánápur Local Supply Working Plan.

#### Sind Circle.

#### Nil.

# (c).-Plans of Operations.

#### Northern Circle.

In all divisions plans of operations were submitted through Collectors and worked upto, except in a few instances of minor importance which are referred to under other paragraphs of the report.

#### Central Circle.

These were drawn up in all divisions and carried out so far as possible, subject to deviations due to causes mentioned above, and to which must be added dislocation of ordinary work consequent on famine fodder operations.

#### Southern Circle.

Plans of operations were submitted for all divisions and were, on the whole, worked up to as far as labour supply and supervision permitted. In Kánara Northern Division there was a shortage in the sleeper supply to the railway and the construction of a rest house at Kalamkhand and a well at Adkehosur had to be postponed. The rest house at Allanki in Southern Division, Kánara, could not be finished. The Katur bungalow was not undertaken in Eastern Division, Kánara.

#### Sind Circle.

Plans of operations were submitted for each division and sanctioned. They were carried out with minor and unimportant changes.

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2.-COMMUNICATIONS AND BUILDINGS.

# (a).-Roads and Bridges.

#### Northern Circle.

Rs. 13,002 were spent on roads including repairs during the current year compared with Rs. 2,550 during the year previous.

The following new work was taken in hand :--

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Surat-North Dángs.-One mile 6 furlongs of new road was constructed on the Chikhla Bardipada section for Ks. 1,131. Improvements over four miles of the Dongiamba-Sutarpada road in connection with the new fellings were carried out for Rs. 1,376, while ordinary repairs over  $44\frac{1}{2}$  miles in the range cost Rs. 620.

Central Dángs.—A further length of  $63\frac{3}{4}$  miles of the new Kalamvihir-Chinchli road was constructed at a cost of Rs. 1,856. Ordinary repairs over  $95\frac{1}{2}$  miles of road cost Rs. 56.

South Dángs. - Galkund-Kanchanghat road was completed during the year, 3 miles 51 furlongs being constructed for Rs. 1,970, this including repairs to last year's section. It is imperative that the top of this road should be linked up with Kanasi in the Kalvan Táluka of the Násik District, from whence the South Dángs timber could find a profitable market in the Deccan; it ends at present in a cutting on the Násik boundary.

Central Thána .--- Three miles and three furlongs of the Wada-Mangrul road was completed at a cost of Rs. 2,912 to open up inaccessible coupes at Ujani and Virhe. The road will be used next working season.

In other parts of Thána a road programme sanctioned in 1911 is being carried out by the Public Works Department.

Kolába .--- A new forest road passing through part of the Nágothna and Pen ranges was realigned and partly constructed during the year. The alignment was reduced to  $2\frac{1}{2}$  miles of which 1 mile 1 furlong of the most difficult portion entailing much blasting and the erection of several retaining walls, was constructed for Rs. 1,388. The remaining portion which is fairly level will be constructed in October next.

#### Central Circle.

In the Sátára Division work on the extension of the Vang Valley road was pushed on, 4 miles  $7\frac{1}{2}$  furlongs being completed at a cost of Rs. 1,197. This work, prescribed in the sanctioned working plan, is proving of the greatest value. Over 15 miles are now complete, and for the first time it has been found possible to sell all the coupes, hitherto inaccessible, of the Patan Range teak The Koina Valley road was also extended by  $2\frac{1}{2}$  miles, bringing the total length now open to  $13\frac{1}{2}$  miles. The further extension of this road which is contemplated will open up valuable forests in the future—even now it has been of material use in the exploitation of minor produce, and will be invaluable should the projected scheme of a boom across the Koina River at Karád with a view to the supply of wood to that town, prove a success.

In Peint in South Násik, 5 miles 7 furlongs of the Chinchohol road were constructed for Rs. 580, but progress was hindered by scarcity of labour and by the forest staff being engaged on famine grass operations.

In North Khandesh, 18 miles of path were constructed in the Akrani for Rs. 245, and a new unmetalled road from Bhurki to Wasardi was commenced

for the opening up of the Satpuda forests, Rs. 2,041 being spent during the year. In Poona the improvement of communications in the Ghat region was taken in hand, the Forest Department carrying out repairs to the bridle path from Bhimashankar to Lonávla, a distance of nearly 28 miles, at a cost of Rs. 2,488. It will be for consideration in the future whether this bridle path could not be converted into a road fit for cart traffic, a work which would materially improve conditions for the extraction of minor forest produce, and might make an opening for the working of the Ghát forests for fuel and charcoal.

In West Khandesh the question of the Charanmal-Borzar section of the road between Pimpalner and Navápur needs serious consideration. The original idea was for this section to be constructed by the Forest Department at a cost of some Rs. 20,000 spread over ten years. Work was begun in 1906-07 on the improvement of the existing cart track, and a certain amount has been spent yearly on repairs which are again destroyed with every monsoon. The present road is little better than a narrow track with excessive gradients and dangerous corners, and up which only half laden carts can be taken. When it is realized that the section forms part of the main line of communication between Navápur and Pimpalner, it is obvious that something better than this is needed, but to make a road up this steep ghát, with proper gradients and in all respects pro-perly surveyed and constructed, is a work which needs expert engineering, and also far more funds than the original estimate of Rs. 20,000; it is quite beyond the capacity of the Forest Department, and a continuance of the present policy is mere waste of money. The Public Works Department is constructing the section from the foot of the Ghát to Navápur on behalf of the Local Board, but application to the Collector for the Borzar-Charanmal being similarly undertaken has been met with the reply that funds are not available. The only alternative therefore would seem to be for Government to undertake it as a Provincial work.

The total expenditure in all divisions of the Circle on new road work was Rs. 5,729, on repairs to existing roads and tracks Rs. 9,491—in all Rs. 15,220.

#### Southern Circle.

Rs. 3,371 were devoted to the construction of regular cart roads and bridges, the expenditure being chiefly in the Kánara Northern and Belgaum Divisions. The details are :---

Division.	Name of work.	Distance in miles.	Cost.
Kánara Northern Do. Do. Kánara Eastern Do. Kánara Southern Belgaum	Bomanhalli-Donknala road Gund-Kaneri road Kunsbarkop depôt road Arbail camping ground road Cycle path Hadikal road 8 bridges on Malprabha-J <sup>T</sup> amboti road.	M. f. 3 1 2 0 0 1 0 4 0 4 0 4 0 4 	Rs. 920 605 297 50 4 361 1,134

The Gund-Kaneri road has connected the forests in those tracts with the Railway, whereby the rates for carting timber have been lowered by Rs. 5 per ton.

Rs. 5 per ton. The Nandgad-Barchi forest road was handed over to the Public Works Department and the following Local Boards roads in the Belgaum Division were handed over to the Forest Department, with an annual grant of Rs. 2,077 for their repairs :--

			•		]	Miles.
1 Khánápur-Talewadi		•••	•••	•••		17
2 Talewadi-Krishnapur		•••	•••	•••		5
3 Malaprabha-Jamboti		• • •	•••			41
4 Jamboti-Chorla	٠		***	***		20
5 Kusmali-Jamboti		***	• • •	•••	• • •	2
					-	<u> </u>
				Total	***'	48 <del>1</del>

1.

All these and about 120 miles of other forest roads were repaired at a cost of Rs. 19,367.

#### Sind Circle.

There are, as a rule, no works under this head in the Circle. The 20 feet rides which cut up the forest into  $\frac{1}{2}$  mile squares are available as roads and used as such. For details of these see sub-section (3), chapter I, above.

## (b).-Buildings.

### Northern Circle-

Expenditure	on	account	of new	buildings	amounted	to :	
TINDETITITA	U <sub>L</sub>	4000444	• • • • • •	···· ·			

xpenditure on account of new pure	THEN.				Rs.
Rest house at Balethi completed					2,694
Police lines at Ahwa (6 rooms)	427	141		108	2,662
Police lines part completed (2nd set)	4.84		<i>·</i> ·	***	1,704
House for 4 Foresters at Subir					3,149
13 posts for Forest guards in Circle	•••				11,532
Temporary buildings	•••	494	•	•••	813
Repairs in all divisions	•••	4**			4,800
			Total	4+4	27,354

#### Central Circle.

The expenditure on new buildings amounted to Rs. 25,435, and on repairs to Rs. 2,825, in all Rs. 28,260, a large increase over the previous year, when construction was curtailed by orders of Government owing to want of funds. There still remains much to be done before the forest staff is completely provided for, and in many districts the greatest difficulty is experienced by Guards and even by Bangers in obtaining any accommodation at all in villages. A liberal building policy is all in the interests of Government, for not only is the having to hire houses, often in unsuitable places, a heavy tax on low paid subordinates, but forest work suffers by men constantly absenting themselves from illness, the result of insanitary housing, and by their perforce having to live-in places which are inconveniently situated for the performance of their duties.

Of the Rs. 25,435 spent on new buildings, Rs. 626 were on account of part cost of Ranger's quarters at Taloda, Rs. 3,916 on talatis' quarters at Dhadgaon, Rs. 3,718 on forest depôts, and Rs. 17,175 on forest guardsquarters in various divisions.

### Southern Circle.

Southern		•			
The total expenditure on new buildi on repairs to Rs. 4,787. The works exe	cuted dr	ring the	70 TO'A	122 and	that
Kánara North			ar wer	8:	,
Rest house at Kalamkhand in	uber -			Rs.	•
Do. at Dandeli co Cerpart Temporary buts for gr	er a a			131	
Temporary buts for gr		***		1,243	
γ <sub>max</sub> impleted	•••	•••		54	
fu-aards	<b></b>	***	***		
Rest house at Al <sup>2</sup> fu-aards Guard's house at Al <sup>2</sup> s Kánara South	hern Divis	ion.			
Guard's house the s Kanara South	•••	•		1,812	
anes arianki in part				175	
all the s at Kasarkod	•••• • • • • • • • • • • • • • • • • •	·•••		-	
Gusso Ko: Kánara Eas	tern Livis	<i>ion</i> .			
arrougth nords' houses at Hutkhand; Kalke	eri. Kvatn	alli, Kangod	and		
contemply Chawdalli	j - · j	·		924	
Rest houses at Gunjavati, Bilki an	d Katur	•••	•••	567	
Kánata We	,	ision.		<u>`</u>	
Rest house at Ramanguli			•••	1,274	
Do. at Santgal		•••		2,217	
Houses for guards at Amdalli, Asi	noti. Gudh	alli, Gundbal	la and	•	•
Sulgeri		•••		2,174	
Bange Office at Kumta		***		2,000	
Temporary hut for guards	<b>***</b>	886	• •••	10	
	um Divisi	on.			
Range Offices at Jamboti and Kh	ánápur			3,000	

USURA OTHICE as saturned and The	anapur				0,000		
Do, at Gujnal in part					674	٠	
10 Huts for subordinates		***		•••	117		
Dháru	oár Division.				•		
Guard's house at Dhumwad	· , • • •	• • •	,	•••	550		
	•		_				
• • • •		1	Total	***	16,922	•	

Owing to want of skilled labour in Kánara many of the buildings could not be completed.

	-			·
The cost of new buildings was	s Rs. 1,929 as	under :		
			•	
Office room for the Barner Har				ĨRs.
Office room for the Range For	est Officer at A	lirpur 👘	•••	760
Pacca wall round part of the	Rahuja nursery		•••	906
Verandah to the Range Forest	t Officer's quart	ers at Radhan		92
Additions to the Range Forest	Officer's quart	ma of Mant	•••	
Other petty works	omeers quarte	ers at mari	***	152
Other petty works		***		19
•		-		
•		Total		1,929
·. · · · · · · · · · · · · · · · · · ·				

Repairs to existing buildings cost Rs. 1,728-0-0.

The rebuilding of part of the Forest Bungalow at 'Miani was finally completed by the Public Works Department. The cost (Rs. 206) was paid by this Department.

The following works were carried out by the Public Works Department and charged to their budget :---

Additions and	altomations	 		Fore	Rs.	a. p	
Officer's bun	1,021	7 3					
Repairs to the D	visional Fo	rest Offi	ce and the re	sidentia	al		
quarters at i	Sukkur	•••		••	710	15 6	•
	<b>.</b> -	•	. T	otal .	·	69	

(c).-Miscellaneous Works.

#### Northern Circle

#### Wells.

4 in North Dángs		•••		965
4 in Central Dángs		• • •		571
1 in South Dángs	•••	•••	5+8	274
3 in Panch Maháls	***	•••	•••	1,115
Repairs to wells in all div	visions	•••	•••	977

#### Cattle pounds.

150

42

in South Thána		***	
	,		

#### Wire fence.

#### South Thána

3

#### Central Circle.

Rs. 451 were spent on construction and improvement of wells, and Rs. 77 on improvement of camping grounds.

#### Southern Circle.

Wells were dug at Katur, Kyatualli, Bhartnalli and Hunasgeri in Eastern Division Kánara, at Binghe in Western Division Kánara and at Jamboti in Belgaum Division at a total cost of Rs. 552. The masonry work had to be postponed to make certain that a permanent supply of water would be assured.

Eight tanks were deepened in Eastern Division Kánara, incurring Rs. 443.

The other outlay under this head was the charges on account of laying two telephone lines, erecting or repairing fences round, and levelling compounds of, rest houses and subordinates' quarters.

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#### Sind Circle-

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	Sind Uircle.	•	• •		$\phi_{ij} + \phi_{ij}$
officials. T Rs. 6,083.	he usual minor irrigation works were carried hese cost (for new works) Rs. 2,219. Repairs to Total cost under this head Rs. 8,302.	, , ,	8 		
Certair Public Wor	a sluices for the irrigation of the forests were ks Department and debited to their budget, as fol	const lows	ruc :—	ted	by the
		Rs.			
	Masonry outlet at head of Forest Karia ex Korai wah mile 2/3 in Bahab Forest, Sukkur Division	. / <b>180</b>	13	9	
(2)	Sluices ex Gillespie wah mile 12/1 in Hassan Wahan Forest, Naushahro Division	178	· 6	11	
(3)	Naushahro Division	178	$\overset{ullet}{2}$	2	
	Three sluices ex Nurwah at mile 8/3, 7/5 and 6/2 in Abad and Mahrabpur Forests, Sukkur Division	<b>444</b>	5	9	
	Sluice at mile 12/5 Jhali Bund in Andaldal Forest, Sukkur Division	1.644	10	9	·.·
·	Sluice at mile 12/0 Jhali Bund in Andaldal Forest, Sukkur Division	1,509	13	0.	- 1 <sup>1</sup> - 1
* •	Sluice ex mile 2/6 Pritchard Canal Right Bank in Kasim-Shah Forest, Naushahro Division	577		6	<u>-</u>
	Sluice ex mile 12/1 of Gillespie wah Left Bank in Hassan Wahan Forest, Naushahro Division	178		11	
	Sluice ex mile 12/4 of Gillespie wah Left Bank in Hassan Wahan Forest, Naushahro Division	178	2	2	
•	Sluice at mile 0/3 of Gharko Embankment of Baghar Canal in Garko Forest, Jerruck Division	769	0	0.	
(11)	Sluice over Forest Karia ex Ganjbahar 47 taki 24 Left Bank in Mulchand Forest, Jerruck Division		13	8	
•	Total	6,023	6	2	
	· )				

3. PROTECTION OF FORESTS.

(a) General Protection.

# Northern Circle

The following statement gives a comparison between the offences of the year, the preceding year, and the average of the past three years :---

	A. Cases taken into court.			B. Cases compounded.			Cae	C. les und	etected		Total,						
Division.	Injury to forest by fire.	Unauthorised felling.	Grazing without por- mission.	Other offences.	Injury to forest by fire.	Unauthorised felling.	Grazing without per- mission.	Other offences.	Injury to forest by fire.	Unau horised felling.	Grazing without per- mission.	Other offences.	Injury to forest by fire.	Unarthorised felling.	Grazing without per- mission.	Othor offences.	Gmn Total
Panch Maháls { 1912 13 1911-12 Surat { 1912-13 1911-12 North Thána { 1912-13 1911-12 Central Thána { 1912-13 1911-12 South Thána { 1912-13 1912-13 1912-13 1912-13 1912-13 1911-12 Tota', 1912-13	4  16  11  11  3  6  41	15  3  5  22  130  178	1  1  20  5  30	1  1  2  8  12	6  2  1  15  32	553  40  164  195  383  1,690	305  33  103  206  205  1,322	27  10  36  47  55  55  202	107  41  41  38  286	180  170  206  127  224  911	1  	···· 1 ··· 7 ··· 8	117 28 29 37 41 71 65 88 45 100 59 99 359	748 1.179 64 337 279 556 407 314 346 737 662 2,760	-,000	27 105 12 18 33 20 55 80 29 19 63 72 222	1,195 1,696 123 154 57 2,633 861 704 749 1,019
Total, 1911-12	52	201	46	10	- <b>6</b> 0	1,781	1,316 	291	311	052	11	13	423	2,037	J,378	£14	5,047
verage of the past three years.	53	213	68	8	50 50	1,475	1,051	199	396	97 <u>1</u>	Ś	- 16	498	2,039	1,227	228	4,609

al Thána figures havo been corrected as a místake was made last year.

The total number of offences shows a decrease of 338 from last year and an increase of 100 over the three years' average.

Fires show a decrease of 64 from last year's figures and a decrease of 139 over the three years' average.

Cases of unauthorised felling show a total decrease of 168 and an increase of 110 over the average. The increase this year in North and Central Thána and Kolába is claimed to be due to more effective supervision, and it has occurred in those ranges where subordinates were well supervised by good Range Officers.

Grazing offences decreased in the Panch Mahals, Surat, and North Thána, and increased elsewhere, Central Thána showing nearly a 20 per cent. increase, due, it is stated, to more active outdoor inspectious of Rangers.

Other offences decreased everywhere but in North and South Thána, where it is claimed that the transit rules were more strictly observed. The number of cases taken into court during the present and previous years are shown in the following statement:---

• D:-	ision.		1912	-13.	-1911	L-12.	Percentage of acquittals.		
		• -	Convictions.	Acquittals.	Convictions.	Acquittals.	1912-13.	1911-12.	
Panch Maháls Surat North Thána Central Thána	•••	  	17 14 14 20 49	1 1  8 4	25 27 27 28 84	1  7 21	5.5 6 6 28 6 7.5	3.8  20. 20.	
South Thána Kolába	 Total	•••	· 106 220	19 	105 	14 	15·2  13·0	10·8 12·7	

The large number of acquittals in Central Thána is stated by the Divisional Forest Officer to have occurred principally in the Wáda Range, where cases were pending in the Magistrate's court from the previous year.

In Kolába some offence papers were badly prepared by an inexperienced round guard.

The total number of cases compounded decreased from 3,448 to 3,236, the average figure being 2,775.

Undetected cases decreased from 1,287 to 1,212, the average being 1,391.

Where convictions were obtained punishments are stated to have been adequate except in the Panch Maháls where a complaint is made of want of severity in punishment in certain fire cases. The District Magistrate has issued a circular in the matter. In South Thána also the Aval Kárkún of Sháhápur inflicted a fine of Rs. 5 for a fire of 1,000 acres.

Communal punishment for breaches of forest laws was inflicted as shown below :---

Division.		Range.	Village puni	ished.	Reason for punishment.	Nature of punishment.	Period of punishment.
North Thána		Unbergaon .	. Chimne	.,,,	Bad protection of forest	Suspension of privileges	One year upto 15th June 1914.
Do.		Mábim .	.) Sikhre and N	iáoju	Bod protection of forest and not helping in put- ting out fires.		One year upto 29th May 1914.
Do.	•••	Do.	. Dahisar and days.	l Gun-	Do	Warned through the Mámlat- dar.	
<b>`</b> ມວ.			. Vaghumba, I Ghatim, Pe Kirat and La	nand	Bad protection of forest and breach of tabal rules.		
South Thana		Shahapur	Atgáon		Bai <sup>!</sup> forest and fire protection and for not rendering assistance in patting out fires.	single rate.	Continued upto 30th June 1915,

Divis	lon.	Range.	•	Village punished	•	Reason for publishment.		Nature of punishment.	Period of punishment.
Kolába	l	Alibág	•••	Vadav Bk.		Illicit cutting in for	ests	Levy of double grazing fees.	One season 1912-13,
Do,		Do.		Nigda		Do.		Do. do	Do.
Do.	•••	Do.		Kária	•••	D <sub>0</sub> ,	·	Do. do	Do.
Do.		Do.		Kusumblo		Do.		Suspension of privileges and	Two years upto 14t
20.	•••		e 14					levy of double grazing fees.	June 1015 and tw seasons of 1912-] and 1913-14.
Do. '	•**	Do.		Saral	•	Do.	<i></i>	Do. do	One year up to 30t June 1914 and or season of 1913-14.
D0.	, 498	Do.		Kávade	•••	Do.		Do. do	Do, do,
Do,	•••	Do		Háshivre	•••	Do.		Do. do	Do, do.
Do.	•••	Eo.		<b>V</b> aijáli	, ,,,,	Do.		Do. do	Do. do.
Do.	` <b>***</b>	Pánvel	•••	Chavne Dewloli		Do.		Suspension of privileges	One year upto 31 May 1914.
Do.	** <b>*</b>	Kárját		Khandpe		Do.		Levy of double grazing fees.	One season o 1912-13.
D0.	•••	Khalápur	`	Ghodivli	•••	D0.		Suspension of privileges	Two years upto 30t April 1915.
Do.	***	Do.		Várose	•••	Do		Levy of double grazing fees	One season o 1912-13.
Do. Do.	•••	Nágothna	•	Karav		De.		Suspension of privileges	One year till 30t April 1914.
•	•••	Do.		Vádi ,	•••	D <sub>0</sub> .	~	695 x 6 y	· • •••••
Do.	•••	Do.	4m	Zotire		Do.	•••		# P4 + 94
Do.		Do.		Jui	***	Do.	·		-10.010
Do.		Do.	••• ~	Társhet		Do.	•••	Suspension of privileges	Onè year from 1 August 1912 to 31 July 1913,
Do.	~	Do.		Jámbultep	***	Do.		•	-
Do.		Do.	÷	Mudháni		Do.		420000	*******
Do	•••	Do.		Alivli		Do.	•••	. <b>568 95</b> 8 .	
Do.	***	Do.		Gandhe		Do.	•••	418404	* *****
Do.		Do.		Páda.	•••		,	* ******	
Do.	***	Do.		Chole	•••	. Do.		<b>****</b> **	*****
Do.		Rona		Kille		Do. Do.	••• •••	Suspension of privileges	One year till 28
Do.	<b></b>	Do.		Chawre	•••	D0.		Levy of double grazing fees.	
Do.	*#* *_	Do.	***	Sambhe		Do.	•••	Do. do.	1912-13. One season 1913-14.
Do.		Do.	•••	Kolā	***	Do.		Suspension of privileges and levy of grazing fees.	Two years till 29t February 1916. Or season of 1913-14
De.	***	Do		Shenvai	•••	Fo.	₽.1 {	Suspension of privileges. Levy of double grazing fees.	One year till 280 February 191 One season
Do.	***	Mangaon		Panhálghar		Do.		Suspension of privileges	1913-J4. Two years till 14t June 1915.
Do.	- 64	Do, ·		Kavilváhal Bk.	***	Do,		Levy of double grazing fees.	
Do.	***	Do.	-	Kalwan	•••	<b>Do.</b>		Suspension of privileges and levy of double grazing fees.	Two years till 291 February 1911 One season
D <sub>0</sub> .		Do.		Mágti	•=•	Do.	,	Do. do	1918-14. Опо year from 1
Do	***	Do.		Dakhne					March 1913 to 28t February 191- One season 1913-14.
Do.	• -	ļ		- MERINA		Do.	•••	Do. do	Till 5th Jane 1913 One season ( 1913-14.
105	••••	Mábad		Mándle	<b>H</b> .	Do.		Suspension of privileges	One year from 16 September 1012
Do.	•13	Do.		Ambivli Bk. (6 ) sons only.)	per-	Do.		Do. do	lst August 1913.
D0.	***	Do.		Borgaon		Do.	••••	Levy of double grazing fees,	One season
Do.	***	Do.		Veer	•••	Do.	~	Suspension of privileges and levy of double grazing fees.	1918-14. Two years +ill or-
<b>D</b> o.	-	Do.	Car	Mumurshi	•	Do'.	[	fees. Do. do	Stary 1914. On Season of 1 13-14.
Do.		Do.	s	Káranjadi		₽-	ļ		August 1912 to 31s July 1913. On Season of 1912-13.
	•	• • •		• <b>a</b> - ••• •	-	Do.	•••	Do, do	Two years fill Sis
، مجمعه ا				·	i		1	\	season of 1912-13.

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Rewards for good forest protection were given as follows :---

Kolaba	Ladivlihalf remission of g	razing fees	s for one season.
<b>9</b> 9	Talavli and Chilhefull remission of g	razing fees	for one year.
29	Khardi Budruk . do.	do.	do.

#### Measures to improve supply and thus to reduce offences of unauthorised felling.

In the forests near the coast where much depredation has been carried on in the past a dual policy of assistance to villagers and repression of theft has been continued. In Kolaba and latterly in North Thána coupes have been sold on the special terms of supply of firewood and wood for agricultural implements to villagers at cheap rates, while negotiations are being carried on for land for forming at once nine new *Casuarina* plantations to provide firewood to the seacoast towns in the future. These will be added to yearly.

Twelve villages in Máhim have, on the other hand, been warned that continuance of theft will result in the permanent loss of their dead wood privilege.

Where rab burning is carried on, the importance of preservation of tahal for seed beds has been steadily impressed on villagers in the Kolába and Thána districts and in the Dangs. The results in many cases are excellent and have saved, and will save neighbouring forests from depredations, improving the sustained yield from trees outside forests.

#### Central Circle.

The following table gives the number of offences reported during the year, as compared with those of 1911-12 and of the past three years :---

•	, c	A usos ta cou	son in: 1rt.	0	Case	E s comp war	f, jounded ned,	i and	Ca	. C ises un		d.		Τc	otal.		G1 TC	rand otal.
Divlsion.	Injury to forest by fire.	Unautiorized fellings or appro- priation of wood and other minor forest produce.	Graziug without permission.	Other affences.	Injury to fotest by fire.	Unauthorized fellings or appro- priation of wood and othen minor foreat raduce.	Gražing without permission.	Other offences.	Injury to forest by fire.	Unauthorized fellings or appro- priation of wood and other minor forest produce.	Grazing without pormission.	Other offeness.	Injury to forest by fire.	Unauthorized fellings or appro- priation of wood and other minor forest produce.	thou	Other offences.	1913-13.	1911-12,
	<u> </u>		 	10		378	267	54	6	- 86	3		10	518	302	68	693	971
Enst Khändesh	1	51	33 - S	13		216	411	20	34	73	4	•••	47	294	415	20	779	770
West ,,		5	୍ ବ 2	 27	17	207	143	365	8	68	1	1	29	238	145	393	855	879
North " …	1	13	7	۵ <i>۲</i>	1	617	731	54	5	164	•••	3	7	807	801	64	1,679	1,361
North Násik		93	11	2	. 4	636	<b>403</b>	61	:9	138	1	36	85	808	420	90	1,363	1,4%
South ,,	{	34 16	14	2	11	773	659	78	38	149	1	1	51	930	665	81	1,783	1,112
Poona Sátára	.	26	45	8	13	491	637	83	27	64		1	41	571	632	05	1,339	1,050
Total	23	174	114	58	- 50	3,307	3,259	718	147	741	10	42	220	4,222	3,383	818	8,643	7,536
Average para	1 01	118	126	41	<u>со</u>	2,765	3,250	424	453	713	44	23	59 <b>0</b>	8,596	3,120	491	8,103	

There was thus an increase of 1,107 as compared with 1911-12, and of 540 as compared with the previous three years' average, the contributing divisions (as regards the former comparison), being West Khándesh, North Násik, Poona and Sátára. In nearly every case the increases come under the heads of unauthorized fellings and illicit grazing; though offences under section 41 of H 850-5 the Forest Act, control of timber and other forest produce in transit, showed a considerable rise in Khandesh. As regards unauthorized fellings Poona shows an increase of 243, but there is every reason to believe that the figure does not represent so much an extra amount of crime, but rather the insistence by the Divisional Forest Officer on more efficient protection of the forests, and more accurate reporting of offences by the forest staff than had formerly been the case. Sátára shows an increase of 283, and this was in the main due to the necessity for urgent measures being taken to check the abuse of the dead wood privilege in the Mahábleshwar and Jawli ranges. In Khándesh the scarcity of rain at the beginning of the year resulted in many cases of illicit loppings of aujan trees. As regards illicit grazing, North Násik (402), Poona (306), and Sátára (275) mainly contributed to the increase. In the first named the circumstances of the year were conducive to cattle trespass, for with the rains holding off at the commencement of the season, grass in open forest was entirely absent. In Sátára illicit trespass of sheep was almost wholly the cause of the increase. Thousands of acres in the eastern part of the district have been thrown open to sheep grazing by the transference of pasture forests to the Revenue Department, but in spite of this there was persistent and deliberate trespass in the forest proper, which are wholly closed to these animals, and such trespass was very rightly met by strict measures. With the ever increasing demand for the grass from these forest proper for agricultural cattle, it is absolutely essential that sheep should not be allowed into them. In Poona, though the number of grazing offences reported showed an increase, a fact due to insistence on the proper protection of closed areas, yet at the same time there were less cattle actually impounded, so that the increase is more apparent than real.

The number of prosecutions instituted in offence cases was 369 as against 314 in 1911-12, the percentage of convictions rising from 89.5 to 91.8. The majority of prosecutions were on account of illicit fellings rather than of illicit grazing, resort to the courts in grazing offences only being taken in exceptional cases of persistent trespass or of obstruction to guards in the performance of their duty.

The number of cases compounded under section 67 of the Forest Act rose from 5,210 to 6,646, and the compensation accepted from Rs. 24,319 to 33,301, the average per case being Rs. 5-0-2 as against Rs. 4-10-8. In this case it is the increase in grazing offences in various divisions, explanation of which has been given above, that accounts for the rise.

In 688 cases, as against 969 in the previous year, offenders were let off with a warning, while in 940 cases, as against 1,048 in the previous year, no offenders could be traced.

Of serious crime it can be said generally that little took place. A year of scarcity is always reflected in an increased number of petty forest offences, for the people naturally turn to the forests when fodder is wanting outside, both for grazing in the closed areas, and for the sake of the anjan leaves, while want of other employment also induces them to commit thefts of wood for sale. With the present favourable season in prospect, an all round decrease in offences may confidently be looked for in next year's report.

Mention must be made of one instance of serious crime that took place in three villages of the Sangamner and Akola Talukas in the Ahmednagar District and in which the villagers combined to commit systematic theft of timber from the forests, to conceal the offenders, and to terrorize any who might give information regarding them. This outbreak of lawlessness has been met by the imposition by Government of punitive police on the villages concerned. In the Igatpuri Táluka also, the punishment of 29 villages for persistent maltreatment of the forests, by the doubling of the grazing fees, had again to be continued under the Collector's orders, while 10 other villages which had been previously warned for the same conduct were similarly treated. In the same táluka several/villages had to have their privilege of removing dead, fuel manufacture of dead fuel.

#### Southern Circle.

	Tak	ion into c	ourt.	(	Compounded.			Undetect	ed.	Total.		
Nature of offences.	1912-13.	1911-12.	Average of past 3 years.	1912-13.	1911-12.	Average of past 3 years.	1912-19.	1911-12.	Average of past 3 years.	1912-13.	1011-12.	Average of past 3 years.
I.—Injury by fire	23	29	31	51	79	03	478	853	, 804	553	971	803
IIUnauthorized fellings	1 104	109	167	3,435	2,234	1,801	530	590	396	3,175	<b>3,</b> 072	2,364
IIIUnauthorized grazing		39	52	1,510	928	690	11	2	ע	1,57	961	650
IVOther offences	16	, <sup>2</sup> 2	18	\$11	173	172	- 13	4	4	339	199	194
· Total	238	283	258	4,33	3,459	2,647	1,037	1,459	1,205	5,612	5,210	4,110

The offences of the year compare with those of 1911-12 and with the average of the past three years as shown below :---

The total number of cases during the year exceeded both the average of the past three years and the cases of 1911-12. The increase, however, is satisfactory considering the large number of trees cut and other forest offences which occur; they, ordinarily, for the most part, remained unreported.

The increase occurs in "Unauthorised removals, grazing and other offences" and is ascribed to petty offences being better reported and to the closure of larger areas, as also to the scanty crop of grass on account of heavy rain and fewer fires.

On the other hand, cases of "Injury by fire" decreased 43 per cent., which is shared by all divisions except Bijápur and is due to heavy rains which kept jungles damp for a longer time than usual.

Divisi	<b>DD</b> •		1.912	-13.	1911	-12.	Percentage of acquittals.		
κ.			Convictions.	Acquittals.	Convictions.	Acquittals.	1912-13.	1911-12	
Kánara Northern			15 68	1 14	6 72	1 13	6·25 17	14 <b>·3</b> 15·3	
Do. Southern Do. Eastern Do. Western	•••	•••	7 14	4 19	24 . 33	37	36 36 57 57	13-3 11-1 17-5	
Do. Western Belgaum Dhárwár		•••	18 22	6 5	$\begin{array}{c}11\\53\end{array}$	7 7	25 18 <sup>.</sup> 5	38·9 11·7	
Bijápur Ratnágiri	•••	•••	56 1	8	$32 \\ 2$	5 1	12.5	13·5 33·3	
		Total	201	57	233		22	16	

The results of prosecutions compare as follows :---

The number of cases taken to court was 4.6 per cent. of the total cases of the year. The lengthy procedure which takes away subordinates from their legitimate work compelled the Divisional Forest Officers to send as few cases as possible to the Magistracy. The percentage of acquittals rose by 6 per cent. Kánara Western Division showed the worst result : as many as 57.57 per cent. were acquittals.

All the Divisional Forest Officers have complained about the inadequacy of punishments awarded by courts.

There were 2 cases of illicit shikar in Kánara Eastern Division, but both were let off by the Magistrate for want of sufficient evidence.

Cases compounded numbered 3,380 against 3,266 of 1911-12, the compensation recovered being Rs. 17,611 against Rs. 12,279. This gives an average of Rs. 5.2 against 3.9 per case in the previous year. The increase in the number of compounded cases was chiefly under the head "Illicit grazing" and was due to the scarcity of fodder in the open forests, which made the cattle trespass in closed areas. Kánara Northern and Belgaum divisions are mainly responsible for the increase.

Offenders in 528 cases were let off with a warning.

There was a fall in the number of undetected offences reported from 1,459 in 1911-12 to 1,037 in the year of report, the percentage to the total number of offences being 18 against 28 in the previous year.

#### Sind Circle.

# The year's offences are given below :-

	Case	taken	into co	urt.	Cas	es comj	ounde	ı.	Cas	es und	etected	ι.		Tota	ıl.		
Division.	rirea.	Unauthorised fellings.	Illioit grazing.	Other offences.	Fires.	Unauthorised fellings.	Illfolb gruzing.	Othor offences,	Fires.	Unauthorised fellings.	l]l oit grazing.	Other offerces.	Fircs.	Unauthorised fellings.	Illicit grazing.	Other offences.	Grand Total.
Sukkur	6	43	11	7		£09		1	31	133		•••	\$0	485	11	8	541
Nausháhro		2	1	3	•••	72		11	18				18	76	1	14	109
Hyderabad		· 8	1	5	••••	142		20	19	9			19	159	· 1	25	2:4
Jerruck f	1	G	2	1	4	53		***	3.)	5		•	85	66	2	1	104
Total of 1912-13	2 7	63	15	16	i	578		32	101	140			112*	783	15	48	901
Total of 1911-12	11	67	12	27		729	2,013	17	251	149			263	935	2,925	44	4,16
Average of past 3 years.	. 5	48	15	28	1	640	2,539	16	209	125	C		215	813	2,500	44	3,63

\* This includes six fire cases left undecided from last year.

There is an enormous drop in the number of illicit grazing offences compounded by the Divisional Forest Officers under section 67 of the Indian Forest Act. The explanation for this is as follows.

According to Rule 10 of the Grazing Rules,-

"All cattle found grazing without passes having been taken out for them, all cattle found grazing in closed blocks or places where grazing is forbidden, all cattle found during the period from 15th October to 15th April, both inclusive, grazing between half an hour after sunset and half an hour before sunrise may be impounded. They may, however, be exempted from being impounded,

- (a) in the case of cattle found grazing in closed blocks or places where grazing is forbidden, by the payment of fees for each animal at the rates locally prescribed for the levy of fines, under the Cattle Trespass Act I, 1871;
- (b) in the case of cattle grazing otherwise than as aforesaid, by payment of one month's fees as a fine.

In addition to these penalties a pass for not less than two months should also be taken out in all cases where the cattle are not already covered by a pass. If cattle are thus exempted the fact of the payment of the penalties prescribed in (a) and (b) above and the amount so paid shall be noted on the pass issued".

It will be observed that the above rule fixes the penalty for cattle grazing illicitly in forests. That penalty is impounding or ransoming the cattle from impounding at a fixed price. Therefore any case treated under the above rule cannot be said to be compounded by the Divisional Forest Officer under section 67 of the Indian Forest Act. The penalty is a fixed one and the Divisional Forest Officer has no discretion in the matter at all. The cattle are impounded or the fines paid to the Range Forest Officer on the spot, and the Divisional Forest Officer only hears about the matter subsequently. To classify such cases under "B cases compounded" is manifestly incorrect.

All these cases have hitherto been treated as cases compounded by the Divisional Forest Officer under section 67. The Deputy Conservator did not discover this until his first tour, consequently the mistake appears in last yes r's report also.

The number of cases disposed of during the year under the above rule was 2,533.

It was pointed out last year, and may be repeated here, that in the Presidency proper a man found grazing his cattle without a pass in open or closed forests generally gets off by paying his fees, and no offence is registered. It is therefore misleading to call similar occurrences in Sind offences.

The Forest Officers of the Circle assembled in conference in June last and drafted (among other things) proposals for new grazing rules. These proposals include an increase of the time for which a grazing permit is valid, and decreased grazing fees. They are now under the consideration of the Commissioner in Sind.

Omitting cases of illicit grazing which were entered last year as "compounded " the number of offences shows a decrease during the year.

The offences taken into court were 97 during the year. 29 were pending from last year. Total 126. Of these 75 were decided during the year and 51 left pending. The 75 decided cases resulted in 57 convictions and 18 acquittals. The percentage of acquittals was 24 as against 19.8 last year. The Jerruck division has not had an acquittal for the last two years. The Hyderabad division had no acquittal during the year under report. The percentage of acquittals rose in Sukkur and remained the same in Naushahro. The cases of the Sukkur division require more careful preparation and the Divisional Forest Officer is taking steps to this end. In this division, however, people were convicted of setting fire to the forests in four cases. There were in all six offenders and the punishments were—one man Rs. 5 fine, one man Rs. 6 fine, two men Rs. 75 fine each plus  $1\frac{1}{2}$  months' rigorous imprisonment, two men Rs. 10 fine each and 10 days' rigorous imprisonment. In view of the immense difficulty of catching the offender in a fire case the above results are good, but it is to be regretted that the two first mentioned punishments were not exemplary. In the Jerruck division one fire case pending from the previous year was decided. The offender was fined Rs. 30 and got a month's rigorous imprisonment as well.

Prosecutions for assault and obstruction of forest guards in the execution of their duty fell from 13 to 6. Of these 4 were convictions and 2 acquittals.

# (b) Protection from Fire. Northern Circle.

In most divisions the sanctioned plans for fire tracing were revised, much was done in the way of personal conversation with villagers whose responsibilities in the way of fire protection were explained to them. The Bassein system of fire protection by means of which the villagers themselves undertake the duties of fire guards for a money consideration again worked well, and is being tried in parts of Wada and Khardi ranges of Central Thana.

Fire guards were employed in all divisions and the system of fire stations as usual in Surat where it continued successful. The same sy tem tried again in North Thána in the Máhim range was a failure, the configuration of the ground being unsuitable.

In Panch Maháls the system of rewards to villagers for goo ! fire protection answered well. An innovation allowing free grazing to the c ttle of villagers bordering Native States for the successful co-operation of the. • owners in fire protection was also partly successful.

The following statement prescribed by Government Resolution No. 248 of 12th January 1904 shows area protected :----

н 850—6

		Extent of valuable			Exten	t of forest b	arnt.
Division.	Total forest area of the Division in charge of the Depart- ment.	forest for which con- tinuous pro- tection from fire is desirable.	Proportion of valuable forest which has been continuously protected from fire for 3 years.	Extent of forest naturally immunø from fire.	Open forest.	Closed forest.	Total.
Panch Maháls Surat North Thána Central Thána South Thána Kolába	Acres. 212,200 463,507 214,141 238,895 218,377 269,931	A cres. 212,225 463,507 214,141 236,344 208,356 269,965	Acres. Per cent. 178,248 or 84- 462,410 or 99.7 205,321 or 95.8 218,862 or 92.6 189,548 or 90.9 265,395 or 98.3	Acres. 2,128 1,500 4,356 5,553	Acres. 7,646 46 604 1,796 2,840 864	Acres, 3,156 1,141 922 1,846 8,761 187	Acres. 10,802 1,187 1,526 3,642 6,601 1,051
Total, 1912-13	1,617,051	1,604,539	1,519,784 or 94°7	13,537	13,796	11,013	24,809
Total, 1911-12	1,617,110	1,604,559	1,537,558 or 95.8	13,537	19,167	17,470	36,637

The number and origin of fires are shown in Form No. 15 ordered by Government Resolution No. 1542 of 17th February 1913.

The following remarks on divisions compare the year's results with those of the previous year :---

Panch Maháls.—Number of fires 111, area burnt 10,802 acres. Last year there was scarcely any grass, and 18 small fires burnt but 310 acres. A better comparison would be with the year 1910-1911 when there were 201 fires burning 23,492 acres. The results show progress. The fires shown under the head of "Malice" are, it is explained, classified on supposition. Forest areas have boundaries bordering Native States, and protection is not easy.

Surat.—Number of fires 16, area burnt 1,187 acres, showing a decrease of 14 fires and acreage of 569 acres compared with last year. Of this, a large fire of 430 acres during Holi in North Dangs and one of 650 acres in Central Dangs claimed nearly the total area burnt.

North Thána.-Forty-four fires burnt 1,526 acres, a decrease of 26 fires and 2,836 acres.

Central Thána.—Sixty-five fires burnt 3,642 acres, a decrease of 22 fires and 5,349 acres.

South Thána.—Forty-five fires burnt 6,601 acres, a decrease of 55 fires and 11,007 acres. This division contains the Tansa catchment area where grass for famine districts and Military Grass Farms was being cut. The figures show good results. Much care in watching is required during the Shimga holidays and two guards were assaulted by separate hunting parties during that time.

Kolába.—Fifty-nine fires burnt 1,051 acres, a decrease of 40 fires and 1,559 acres.

It is true that heavy rain in November kept the grass green rather later in the year than / usual and that the monsoon broke early in the year 1913, but nevertheless the results arrived at are most creditable. Omitting Panch Maháls in bot i years the area burnt decreased from 36,327 to 14,007.

Of 359 f re cases 28 were prosecuted and convictions obtained in each case. Thirty-two were compounded and 13 are pending. In the balance of cases offenders wer > not found.

## Central Circle.

) 3.

ji.

Fire pro ection was exceptionally satisfactory during the year, the total number of fires having fallen from 330 to 220, and the area burned from 101,792 cres to 38,288. The statement showing the origin of the various fires is now given in the Appendix in Form No. 15, instead of in the body of

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the report, and a reference to it will show that all classes of fires, whether those through careless burning of lines, or through fire crossing exterior lines, or through rab burning, or with deliberate intention, have materially decreased in number. It cannot of course be denied that the successful results of the year are in some way due to the prevailing scarcity of fodder, to there being consequently less grass in the open forests to burn, to much grass being removed from closed areas in the shape of cut fodder, but there is also evidence from every side that the fire protection measures instituted by the department are being brought to a greater state of perfection each year, that the people recognise that Government is in earnest in putting down fires and are willing to assist in that policy, and that they also recognize that it is in their own interests to do so. The results are best illustrated by a brief note regarding each division :—

East Khándesh.—Decrease in number of fires from 42 to 10, decrease in area burned from 21,393 to 12,649. The Divisional Forest Officer reports that far more care was exercised by contractors and by villagers frequenting the forests in preventing accidental outbreaks, that villagers gave ready assistance in extinguishing such fires as did occur, and that the policy initiated in previous years of punishing those villages which failed to help by suspension of privileges, and rewarding those that gave ready assistance by remission of grazing fees, free grants of produce and rewards to pátils, had a marked effect in the areas concerned. The area burned would have been considerably less but for the exceptional difficulty of some parts of the Sátpudás, where the country is extremely mountainous and where there are few villages near. In this division the system of fire stations and drums is not in force, being unsuited to the conditions prevailing in the areas susceptible to fire, viz., vast areas of forest with no villages in or near their limits.

West Khándesh.—Decrease in number of fires from 61 to 47, decrease in area burned from 43,934 to 12,959. The result is attributed partly 'to better work on the part of the staff, but chiefly to increased interest in the protective measures on the part of the people, the interest being stimulated by 'liberal grants of forest produce and by threats of withdrawal of privileges. The Fire Station and Drum System was in force.

North Khindesh.—Decrease in number of fires from 72 to 29, decrease in area burned from 27,996 to 9,511. In this division the percentage of failures in fire protected areas has fallen in five years from 45.3 to 1.71, the result of a policy of fire stations, drums, and patrols, and of judicious rewards and punishments. There has been a marked improvement in three ranges which hitherto have not shown conspicuously good results.

South Násik. - Decrease in number of fires from 57 to 35, decrease in area burned from 6,089 to 1,144. Scarcity of grass throughout the division partly accounts for the results, but the people are reported to have been extra careful in their habits, and as a rule to have turned out quickly to extinguish outbreaks. Those that did not were punished by the Collector by enhancement of grazing fees, and others were warned. Villages which had been so punished in the previous year showed an improvement, and the punishment was remitted.

North Násik.—Decrease in number of fires from 18 to 7, decrease in area burned from 465 to 222. Total absence of grass in the east of the division, and removal of much cut grass from the closed forests in the west helped to keep down the figures, but the burned area would have been far greater but for efficient protection by all concerned

**Poona.**—Increase in number of fires from 38 to 51, decrease in area burned from 1,620 to 938. The area successfully protected in this division shows a steady yearly decrease. The villagers have learnt the value of grass and grazing in the forests, and readily turn out to extinguish fires, so much so that expenditure on protection is reduced to a minimum.

Sátára.— Decrease in number of fires from 42 to 41, increase in area burned from 295 to 865. The increase was due to one isolated case of incendiarism, which resulted in 600 acres being overrun. The main feature of the above results is the success that has been attained in the divisions that are most susceptible to fire, and which in the past have suffered the most viz., the three Khándesh divisions. That the improvement is steady, and is not merely the effect of scanty rainfall, is illustrated by the following figures giving totals for the three divisions for the past five years, and proportionately similar good results could be shown for the whole Circle :---

Ye	L <b>F</b> .	No. of fires.	Area burned.
1908-09 190?-10 1910-11 1911-12 1912-13		331 253 175	Acres. 338,114 294,503 214,922 93,323 35,119

The amount spent on protective measures was Rs. 18,545 as against Rs. 17,214. This works out as an insurance premium of about  $1\frac{1}{4}$  pies per acre on the total area of 2,856,703 acres in which those measures were undertaken, and of but a fraction higher on the area of 2,818,415 acres that were successfully protected.

In the 220 cases of fires that occurred the offenders were detected in 73 cases. On the whole, the punishments inflicted by magistrates in the cases that were taken into court were reported to be satisfactory, but in some districts there is still the tendency so often noted in previous years, to treat firing the forests as a comparatively trivial offence for which a small fine rather than imprisonment is an adequate punishment. As an instance, a fine of Rs. 4 for intentional incendiarism which resulted in 250 acres being burned, may be quoted. In such cases the assistance of the District Magistrate is sought by Divisional Forest Officers and meets with a ready response, but the point is one which evidently has to be reiterated yearly.

The following statement shows the progress made in fire protection duringthe last seven years :---

•	Total forest area of the	· Extent of valuable forest for	Protection of valuable	Extent of forest	Extent of forest burnt during the year.				
Division.	division in charge of the Department-	which con- tinuous pro- tection from file is desirable.	forest which has been continuously protected from fire for 7 years.	naturally immune from fire.	Open forest	Closed forest	Total.		
East Khindesh West Khåndesh North Khåndesh North Násik Sonth Násik Poona Sátára	846,591 555,766 449,398 _419,795	Acres. 367,918 206,107 555,766 449,262 237,865 127,203 228,980	Acres. Per cent. 108,519 or 29.4 Nil. Nil. 442,262 or 98.4 153,388 or 64.4 103,208 or 81.1 212,923 or 93.8	Acres.	Acres. 6,894 10,881 7,418 219 605 260 718	Acres. 5,755 2,078 2,093 3 539 678 147	Acres. 12,649 12,95 9,51 22 1,14 93 86		
Total	2,856,368	2,173,101	1,020,300 or 46.9	268,241	26,995	11,293	38,28		

#### Southern Circle.

The area attempted to be protected was 1,224,017 as compared with 1,108,499 acres in the previous year, the increase being chiefly due to the addition of the working plan area of the Ankola range in Kánara Western division and partly to the area transferred to the charge of the Forest. Department in Dhárwár division in 1911-12. The area burnt was 29,560 acres or 2.4 per cent. against 79,090 acres or 7.1 per cent. in the previous year. The total amount spent on special protection was Rs. 22,476 or Rs. 14 per square mile as compared with Rs. 24,050 or 14.9 respectively in the previous year,.

Divis	ion.			Area attem prote		Area barnt.		Area actually protected,		Total cost.		Cost per square mile protected.	
·				1912-13.	1911-12.	1912-13.	1911-12.	1912-13.	1971-12.	1912-13,	1911-13.	1912-13.	1911-12
•				Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.
Kánara Northern	•••	.74		241,133	241,133	2,331	7,931	238,802	233,202	6,368	6,072	17	16.6
Kánara Southern			•••	9,787	` 9,50 <b>6</b>	71	78	9.716	9,433	396	149	9.9	10
Kánara Eastern	•14	414		225,946	235,946	11,997	31,204	213,949	104,742	6.719	8,236	201	27.3
Kánara Western	***	***		198,386	83,3-8	380	442	198.006	87,946	1.878	2,703	6	19.7
Belgaum	u.,	•••		400.444	400,981	2,262	11,502	398.182	389,482	4,223	3,939	7	6.2
Dhárwár	•••	***		132,500	125,920	12.073	27,243	120,427	98,747	2,788	2,790	14.8	18-1
Bijápur		•.•	]	3,770	4,5(2	445	690	3,325	3,812	74	83	14.8	13.8
Ratnágiri ՝	•••			12.051	-12,050	1	б	12.050	12,045	30	30	1.6	1.8
		Total		1.224.017	1,108,100	29,560	79,090	1.194.457	1,029,409	22,476	24,050	14	14.9

Protection from fire was still more remarkable this year in Kánara Northern division than in 1911-12. In the teak area, comprising about 226,769 acres, only 683 acres or '3 per cent. were burnt. The Divisional Forest Officer records that with two years' successful fire protection much of the high grass in Block XX has completely disappeared. The dying off of this grass, which was often 10 feet high, has greatly simplified the protection of those very dry and inflammable forests.

The only 2 areas under working plans in Kánara Southern division are never burnt. The area of coupes, etc., which was specially protected was 9,787 acres, out of which 71 acres were burnt. On the whole the coupes were well protected, only 3 small fires having occurred.

There was a vast improvement in the fire protection in Kánara Eastern division. The number of fires decreased from 220 to 105 and the area burnt from 35,219 acres to 14,266. Katur was the only range where, through the extremely slack arrangements of the Range Officer, fires were bad. Otherwise the division would have shown even better results.

Though the area specially protected in Kánara Western division was more than double of what it was in 1911-12, the area burnt was less by 62 acres. This most satisfactory result is attributed to—

(1) good rains in October and November which kept the jungles damp till late in January,

(2) appointment of temporary guards to patrol compact blocks of fire traced area, and

(3) punitive measures under which grazing fees were enhanced where there were bad fires in the previous year.

The fire season was a long one in the Belgaum division, the first fire occurring on the 12th December and the last one on the 1st June. There was, however, a considerable decrease in the area burnt, from 11,502 acres in 1911-12 to 2,262 acres in 1912-13. The Divisional Forest Officer remarks that the two most important ranges, Khánápur Central and East, suffered most from fires, that the fires were often started through malice and that a police patil was amongst the prime offenders.

The villagers in the Dhárwár division are reported to be realizing the benefit of fire protection. The area burnt was less than half compared with the previous year, the Kod range alone contributing nearly 50 per cent.

The area of 3,770 acres under special fire protection in the Bijápur division is limited to coupes under regeneration. Of this, 445 acres were burnt, which is very unsatisfactory.

The following statement shows the concessions allowed for good general protection and punitive rates imposed for bad protection during the year :---

н 850—7

Divisio	)n,		•	Number of villages rewarded with free or concession grazing tor good general protection.	Number of villages punished for bad protection of jungles by excessive grazing fees.
Kánara Northern Kánara Southern Kánara Eastern Kánara Western Belgaum Dhárwár Bijápur	• • • • • • • • • • • • • • • •			47 60  120 16 23 people of 3 villages.	\$6 15 30 3 103 11 2
	•	Total	•••	243	200

Form No. 15 accompanying the report gives the origin of fires which were 552 in number, whereas in the previous year it was 971. The area burnt was 44,031 acres as compared with 104,404 acres in 1911-12. The number' of fires caused in burning lines was 28, which is high though there is an improvement on 1911-12 when there were 43. Kánara Eastern Division alone is responsible for 16 out of 28. There were 130 fires due to carelessness or accident against 330 similar ones in 1911-12. Cases of intentional firing numbered 77, or 22 more than in the previous year. Out of 77 as many as 74 or 13.4 per cent. were detected, 23 being prosecuted and 51 compounded or warned. In 1911-12 the percentage of detection of fire cases was 11 per cent. The following schedule gives the number of fire offences detected and the action taken against the offenders:—

,		Total	Number o	of detected es.	7	
Division.	× .	number of fire offences.	Prosecuted.	Compound- ed or warned.	Percentage of detected cases.	Result of prosecution.
Kánara Northern		66	2	4	9	1 acquitted. 1 sentenced to 10 days' imprisonment
Kánara Eastern		105	3	12	14.3	
Kánara Southern	•••	113	7	7	12.4	Pending. 2 convictions, 1 fined Rs. 5 and in another 2 offenders fined Rs. 5 each. 4 acquitted.
Kánara Western	•••	45	2	10	27	1 pending. 1 convicted with fine of Rs. 5. 1 acquitted.
Belgaum	•••	94	4	11	16	l convicted with fine of Rs. 25 and compensation of Rs. 25
Dhárwár	•••	, 83	2	6	9.6	3 pending. 1 convicted with Rs. 3 fine, 1 pending.
Bijápur	•••	44.	3		. 7	<ol> <li>fined Rs. 10 or 10 days' simple imprisonment.</li> <li>fined Rs. 5 or 5 days' simple imprisonment.</li> <li>Two offenders fined Rs. 4 each or days' simple imprisonment.</li> </ol>
Ratnágiri		2		1	50	offenders fined Rs. 2 each or 2 days simple imprisonment,
Total	•••	552	23	51	<u> </u>	

Out of 15 cases decided by the Magistrates in only one was the offender sentenced to imprisonment, all the rest escaped with trivial fines ranging from Rs. 2 to 10 and, exceptionally, Rs. 25. Apparently the punishments inflicted by the courts were generally inadequate.

The following statement shows the progress made in fire protection during the last seven years as required by Government Resolution No. 248, dated 12th January 1904 :---

26

Division.	Total forest arez of the division	Extent of valuable forest for which con-	Proportion of valuable	Extent of forest	Extent of forest burnt during the year.				
Division.	in charge of the Forest Department.	tinuous pro-	forest which has been continuously protected from fire for 7 years.	uaturally immune from fire,	Open forest.	Closed forest.	Tota!.		
· · · · ·	<u></u>	<del>,</del>			!				
Kánara Northern. "Southern. "Eastern "Western Belgaum Dhárwar Bijápar Ratnágiri	Acres 479,091 624,848 417,756 558,280 400,438 143,396 139,510 12,051	Acres, 252,290 555,403 225,946 288,571 400,438 143,396 137,241 2,543	Acres. Per cent. 229,000 or 98 300,000 or 54 69,213 or 30.6 99,044 or 34 48,500 or 12 39,208 or 27 103,604 or 75.5	Acres, 49,493 209,180 4,300 122,348 48,500  2,269 9,508	Àcres. 2,251 2,754 2,269 72 1,091 14,220 445 	Acres. 80 171 11,997 880 1,171 2,737 4,492 1	Acres. 2,331 2,825 14,266 452 2,262 16,957 4,937 1		
Total	2,775,370	2,005,828	888,569 or 44.3	452,593	23,102	20,929	44,031		

The accuracy of the figures in column 4 is questionable.

#### Sind Circle.

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

Division.	Fires originat- ing in depart- mental fire conservancy operations.		oute	Fires crossing outer fire traces.		Fires due to carelessness or accident by outsiders or unknown causes.		Fires originating from intention or malice.		Totsl.	
		Area burnt.	No.	Area burnt.	 No.	Area burnt.	No.	Area burnt.	No.	Area burnt.	
Sukkur Naushábro Hyderabad Jerruck	1	5 	· 7	229  	11 18 19 35	112 939 644 1,237	15 	554  	84 18 19 85	900 989 644 1,237	
Total of 1912-13	1	5	7	229	83	2,932	15	554	106	8,720	
Total of 1911-12	•••	•••	<i>i</i> <sub>l</sub> 18	707	173	8,098	71	14,003	262	22,808	

It is gratifying to be able to record a very great improvement in the measure of success attending attempted protection of the forests from fire. There were 106 fires in all, the average area burnt being 35 acres. In the previous year the corresponding figures were 262 and 87. There was an improvement in every division, but most noticeably in Sukkur and Nausháhro, where fires were less than one-third those of last year. The reasons for this were :--

(a) a better inundation and consequently a better supply of grass,

(b) many areas which had hitherto been closed became fit for opening and thus afforded a more plentiful supply of grass and a wider field for pasture,

(c) the forest officers were constantly impressing on the maldárs and villagers the damage done to the forests by fire, and the further disadvantages to themselves in the shape of closure of burnt areas and enhanced fees.

The Divisional Forest Officer, Jerruck, reports that "carelessness of travellers and the ferry-going public is responsible for most fires, and a large number in the Mulchand range are the result of deliberate incendiarism." To minimise the danger from travellers some very good fire tracing work was carried out along the principally used tracks and the results obtained were encouraging. At the very end of the year the Divisional Forest Officer found it necessary to ask the Collector to close one large forest in the Mulchand range for one year in the hope of impressing on the people that a defiant attitude will not serve them. Nineteen miles of fire lines were cleared in the Jerruck division at a a cost of Rs. 875 or Rs. 46 per mile. The widths varied from 25 to 100 feet, and from a personal inspection the Deputy Conservator can say that never were lines cleared more cheaply, considering the nature of the difficulties encountered. Fire watchers were also employed to patrol the forests and fire lines during the season. Rs. 653 were spent on these. The season during which a fire is possible in Sind is 'considerably longer than in the Presidency proper, consequently patrol expenses are heavier.

The detection of offenders in fire cases is particularly difficult, and it is therefore gratifying to record the success alluded to above.

Is is safe to say that success in protection from fire in the Sind Circle depends very largely on circumstances entirely outside the control of the Forest Department; e. g., a favourable inundation means not only plenty of grazing for all comers but also plenty of grazing outside the forests. A good rainfall in the hills brings good grass there, and the hill cattle owners do not bring their animals down to the forests. The Forest Department under ordinary circumstances welcomes cattle in forests to keep down the dense growth of grass, but when large flocks of starving cattle from distant places invade forests which are deficient in grass owing to an inadequate inundation, the cattle owners not finding grazing, burn the forests right and left to obtain young grass for the animals, and in these circumstances a staff three times as strong could not stop them.

The statement required by Government Resolution No. 248 of 12th January 1904 regarding areas enjoying continuous immunity from fire for a period of 7 years, is given below :—

		,	Extent of valuable - forests for	Proportion of valuable	Extent of forest	Extent o	f forest burn the year.	forest burnt during the year.		
Division.		Arca.	which con- tinuous pro- tection from fire is desirable.	- forest which has been ustu		Open forest.	Closed forest.	Total.		
Sukkur Naushahro Hyderabad Jerruck	  	Acres. 284,953 146,480 151,043 145,037	Acres. - 284,953 146,480 151,043 145,037	Acres. Per cent. 256,725 or 90.09 138,408 or 94.49 150,580 or 99.69 128,528 or 88.62	Fresh formed kachas.	Acres. 794 924 644 1,237	Acres. 106 15 	Acres. 900 939 644 1,237		
Total	•••	727,513	727,513	674,241 or 92.68	,	3,599	121	3,72		

#### (c) Protection from Cattle.

#### Northern Circle-

The following statement shows the number of animals impounded compared with the figures of the previous year and the past three years. All forests are closed to browsers :---

Statement showing the number of animals impounded for illicit grazing.

		_										•			
Division.			s and locks.	Buffaloes.		Goats,		Sheep.		Other ani- nials		Total.		Grand total	Grand
		Open.	Closed.	Орев.	Closed.	Open.	Closed.	Open	Closed.	Open.	Closed.	Орев.	Cicsad.	for 1912-13	for 1911-1
Panch Maháls		251	2,632	131	1,108	1,723	507	3		7	58	2,115	4,303	6,4:6	10,18
Surat	•••	74	79	. 2	25			129	130			205	234	439	71
North Thána,	•••	153	1,069	49	264	1,026	547	26	40			1,284	1,920	3,204	3,25
Central Thána	••••	321	3,627	118	632	790	220	249	28		<b>1</b>	1.473	4,507	5,950	4,48
South Thána 💦	•••	20	2,267	9	646	479	380	4				512	3,293	3,805	3,88
Kolába	•••	11	1,438	17	247		163		940		4	28	2,792	2,820	2,31
Total, 1913-13	3.	860	11,112	321	2,920	4,018	1,817	411	1,138	7	62	5,617	17,049	23,686	
Total, 1911-12		684	12,687	857	2,478	4,944	2,012	874	515	17	242	6,876	17,984	•••	-4,81
Average of past 3 years	•••	845	10,457	364	2,133	3,858	1,238	2,009	622	24	135	7,010	14.585	· · · · ·	

The number of impoundings decreased from 24,840 to 22,666, 21,595 being the three years' average.

The reduction in impoundings in the Panch Mahals is attributed to the lenient conditions allowed after the famine.

In North Thána stall feeding was encouraged, closed coupes being thrown open to villagers for the cutting of grass free.

In Central Thána there was an increase of cattle impounded in each range, chiefly in the closed area where supervision was strict.

In South Thána the increase was in the number of goats impounded. Kathodis who own many goats were largely engaged by land owners in manufacturing charcoal because of its high price during the year. Their animals frequently strayed into forest.

In Kolába the few animals impounded in open forests show that the grazing collection was good early in the grazing year.

#### Central Circle

Out of 4,463 square miles of lands in charge of the Forest Department 954 square miles, or 21.4 per cent. were closed to grazing of all animals throughout the year, and 130 square miles were so closed for part of the year, the latter representing lands which are worked primarily for the sake of grass cutting, and in which, once the grass crop is cut and removed, there is little objection to horned cattle being admitted. The former of course represents areas of valuable forests closed for regeneration purposes. Hoat and sheep grazing is now forbidden by Government in practically all forest proper, but there are 1,817 square miles of pasture forests in charge of the Revenue Department to which these animals are admitted.

The conditions of the past season, though somewhat more favourable than the previous one for the protection of forests from cattle in the way that such extensive concessions in the matter of throwing open closed areas to grazing were not held to be necessary, was nevertheless unfavourable as compared with a year of ordinary good rainfall and plentiful fodder. In particular, the holding off of the rains in the early part of the season resulted in great pressure on the closed areas, much cattle trespass, and a consequent increase in the number of cattle impounded as compared with the previous year.

Division.		rs and locks.	Buf	faloes.	Go	pats.	St	106 <i>3</i> .		ther mals.	<b>T</b>	otal.	Grand
	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open	Closed.	Open.	Olosed	1
East Khündesh West Khündesh North Khündesh North Násik	00	6,831 7,106 5,097 8,222	23  2 	1,130 613 1,118 624	1,656 3,349 308 9,713	471 23 6,082	191  6,481	 465  3,178	14 18 	8 212 20 145 25	4,170 2,584 302 16,197 618	12,909 8,872 6,257 18,251 10,266	17,073 11,456 6,649 34,443 10,884
South Násik Poona Sálára <sup>\</sup>	593 431 88	5,293 3,091 1,943	25 179 27	230 828 327	 2,427 1,146	3,937 870 153	2,406 6,392	726 924 104	 3 13	25 12 4	5,446 7,964	,725 2,619	10,334 11,171 10,583
Total 1912-13	3,686	37,587	255	4,875	17,929	16,523	15,473	5,487	43	426	87,371	64,898	102,269
Total 1911-12	1,634	23,535	272	2,835	8,470	19,095	6,145	13,039	<b>8</b> 3	114	16,554	60,128	7 <b>6</b> ,682
Avorage of past 3 years	<b>3,</b> 562	30,571	<b>3</b> 92	3,550	8,605	22,666`	4,605	18,607	125	396	12,380	75,791	89,171

The following statement gives the details of impoundings, and the results ' may be analysed as below :----

1

There was an increase in the number of animals of all sorts impounded, of 25,587, viz., from 76,682 to 1,02,269. Of this increase, no less than 7,153 were sheep and goats, the grazing of which in forest proper is not only deliberate in that it is known to all that they are not allowed, but also unnecessary from the point of view of the owners, in that such large areas of pasture forest have been made available for them. These impoundings, therefore, need not be considered. The main question for consideration is the impounding of horned cattle, which showed a rise of 18,107. From this figure 2,015 animals may also be left out of consideration, in that they were impounded from open forest for deliberate refusal to pay the grazing fees; the orders of Government in this respect are strictly observed, and no horned cattle are ever impounded when caught grazing in open forest, without the owners first being given the option of paying the fees due. There thus remains an increase of impoundings of horned cattle from closed forests, as compared with the previous year, of 16,092, and each division will be taken separately to explain the causes.

East Khåndesh.—Increase 1,743. The season was somewhat better than the previous one, and there was not the wholesale early opening of closed areas. Grass was scarce in open forests, and the contractors of closed areas showed much carelessness in protecting the areas in their charge once they had cut what grass they wanted. The people too, having been given concessions in the previous year, could see no reason why they should not always enjoy them.

West Khåndesh.—Increase 5,158. The holding off of the rains early in the season resulted in much deliberate trespass in the kurans, which necessarily had to be closed to ensure there being any grass at all later in the season. There was also a large influx of cattle without permits from the Násik District, and trespass in the closed forests. On this question the Collector has remarked that "the impoundings could have been avoided had the people been warned a few days before the forests were closed." There is, however, no reason for thinking that such was not the case. Closure is never enforced without due warning; the trespass in question was deliberate; and obviously the influx of cattle from Násik could not be affected by any such warning.

North Khándesh.—Decrease 169 as compared with the previous year, but an increase of 1,789 as compared with the previous two years' average, due not to trespass by local villagers, but to an influx of non-forest-village cattle from the plains at a time of the year when owing to the failure of the rain, there was no grass outside. The privilege of free grazing is, as the Collector remarks, no doubt an important factor in enlisting the sympathy of forest inhabitants, and in securing their co-operation to prevent forest fires, but in this case the offenders were outsiders who care nothing for the forests and only seek to obtain grazing. It must be pointed out too that unless the forests are closed when the grass first begins to grow, there can be absolutely nothing for the cattle to eat later in the season when it may be more urgently needed. There is therefore more than one side of the question to be considered.

North Násik.—Increase 4,429. This was due to scarcity of grass everywhere except in the west of the division, and to the concessions as regards opening of closed areas not having been made as in the previous year.

South Násik.-Increase 1,947, due to general scarcity of fodder outside of forests.

Poona.—Increase 2,474 due to insistence of proper protection of closed areas. The Collector has recorded his opinion that they are in no way due to insufficient grazing facilities, but rather to the abuse of generous concessions, and to the desire of the people to avoid payment of fees.

Sátára.—Increase 510 only, which calls for no special remark.

The whole question of grazing and impounding brings to the fore again the necessity of the people laying in a reserve of fodder which will tide them over the possibility of the monsoon failing in the early months. As has been remarked in previous reports nothing of the sort is done, especially in cotton districts, and the result is that the forests have to be called on to reconcile the problems of preserving their true interests as forests, of keeping the cattle alive in the

early months of the season, and of the provision of a supply of grass for the remainder of the year. The difficulty, if not impossibility, of reconciling these problems so as to give general satisfaction is clearly shown by the details that have been given above. Concessions are freely given whenever the Revenue and Forest Departments consider them to be necessary, but it is not always the case that the concessions are duly appreciated by the people. Rather they try to trade on them in good years when there is no necessity for them to be given. Reference has already been made to the number of cattle in East Khandesh for which the owners refused to pay fees even when caught grazing in open forest, and in addition the Divisional Forest Officer, Poona, brings to notice the avoidance of payment until it can no longer be avoided, so much so that at least 25 per cent. of the cattle of the district for which fees were paid, had first to be taken to the village before the owners would pay up, while the fees of no less than 9,683 head had to be recovered at double rates owing to avoidance of payment beyond the fixed date within which single fees only were necessary. Considering the smallness of the fee and the value of the grazing given for it, the remark of the Collector of Poona on last year's report that "where grazing is concerned there is a disposition to assert rights beyond those conceded by Government" is one that can hardly be gainsaid in any district.

#### Southern Circle.

Form No. 16 exhibits the details of areas closed and open to grazing during the year.

The area entirely or partially closed to grazing amounted to 16.4 per cent. of the State forests as compared with 16.5 per cent. in 1911-12. The area open to all animals (including browsers) was 275 square miles or 6 per cent. Thus 83.6 per cent. of the total area of the forests was open to the grazing of horned cattle throughout the year.

	vision.		Cow Bulk	s and ocks.	Buff	aloes.	Go	at <b>s.</b>	Sh	ер.		ber nals.		Fotal.	Total of open and closed	Grand total of open and
2.			Open.	Closed.	Open.	Closed.	Open.	Clósed.	Open.	Closed.	Open,	Closed.	Open.	Closed.	for 1912-19.	closed for 1911-12.
Kánara No	orthern		••••	1,039		805	9	10	•••	2			9	1,856	1,865	1,455
Do. So	uthern	]	116	105		15	212		•••	21			228	141	369	158
Do. Es	astern		14.	784		179	٠	31						974	974	984
•	estern		•••	133		89	•••	•••						222	222	157
Belgaum			353	3,182	87	024		3,151	••	1,165		1	<b>456</b>	8,453	8,909	6,718
Dhárwár			3	<b>S</b> 03	33	405	413	S5	306		\		754	742	1,498	2,332
Bijápur			***	1,247		340	•	3,633	•••	368		22		5,610	5,610	7,038
Ratnágiri			•••	3	•••	8	***	180	•••	***	•••	•••		186	- 136	15
Total	of 1912-13		 . 471	0,773	130	2,760	534	7,020	306	1,556	. 6	23	1,447	19,134	19,581	•••,,,,
Total	of 1911-13		824	6,035	42	1,569	560	4,996	97	4,703	•••	31	1,523	17,334		18,857

The number of cattle impounded during the year was as follows :---

The total number of cattle impounded rose from 18,857 in 1911-12 to 19,581 in 1912-13. The impoundings in Kánára Eastern Division, Dhárwár and Bijapur have decreased by 2,274, which is a set-off against an increase of 2,998 in the other divisions. The net increase of 724 is mostly in horned cattle which were persistently let into closed coupes as well as other peoples' crops. In the Belgaum division the heavy compensation of Rs. 2 per head in deliberate cases of illicit grazing is beginning to teach the owners that grazing passes must be kept with the herdsmen. The Divisional Forest Officer, Dhárwár, attributes the decrease to good grass crop outside forests throughout the division on account of good rain. In Bijapur it is ascribed to the zeal of subordinates which it is hoped is the case.

Under this head again it must be confessed that the co-operation of the courts is much needed to put down trespass. In such cases it is difficult

to prove the offence to the satisfaction of the court; secondly, the subordinates lose a deal of valuable time and if they are so fortunate as to obtain a conviction the punishment is a light fine, in fact lighter than what the Forest Officers can themselves impose under Section 67. One Magistrate holds that the legislature does not intend to punish a man for cattle trespass, impounding of cattle being in itself a sufficient punishment. The only alternative that exists, therefore, is not to take grazing cases to court.

#### Sind Circle.

Ninety-three per cent. of the forest area was open to grazing of cattle (except goats and camels). The latter animals were admitted to about half of the above area.

Impoundings have decreased by 3,645 since last year. The decrease is contributed to by all divisions and may be accounted for as follows :----

(1) More people ransomed their cattle before they were impounded,

- (2) extensive opening of hitherto closed areas,
- (3) a falling off in the number of cattle brought for grazing in forest.

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.		Buffalo	)ев.	She	ep.	Goa	ts.	Cam	els.	Oth anin		. To	tal.		otal of open and closed.	
Division		-   	Open.	Clorod.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	1011-13.	1612-13.	
• Sukkar			597	1,€02	371	693	13	••1	1,869	1,859	116	271	91	<b>\$</b> 6	3,057	<b>4,</b> 461	9,189	7,518	
Nausháhro	•••		199	723	128	220		55	841	594	27	145	3	28	692	1,765	2,511	2,457	
Hyderabad			381	375	278	199		40	381	256	128	101	19	<sup>-</sup> 61	1,187	1,032	8,730	2,210	
Jerruck	**•	•••	537	£3	326	22			445	683	87	42	31	10	1,429	849	2,687	2,278	
Total, 1	912-13	•••	1,705	2,792	1,103	1,131	13	95	3,039	3,392	358	559	147	135	6,365	8,107		14,472	
Total, 1	911-12 \	•••	3,205	3,173	1,024	1,252	5	12	2,710	4,980	671	674	65	126	7,900	10,217	19,117		

Fences were made of branchwood round newly exploited coupes over a length of 221 miles. Repairs to existing fences were made on 515 miles. This work was done free with the help of maldárs and coupe contractors.

(d) Protection against Injuries from Natural Causes.

#### Northern Circle.

Creeper cutting was carried on by guards in all divisions, the Central Thana guards being supplied with special koyatas for this purpose.

Besides departmental work the following sums were spent in various divisions in cutting out creepers :----

					Rs.
Panch Maháls	•••	•••	***		22
Surat	***		***	•••	236
North Thána	•••				570
Central Thána	***	• • •		•••	32
Kolába	***			· ···	230

Statistics are furnished from the Surat division where an eight-year plan to go over the North Dangs range was started. 1,15,012 creepers were cut, 4,676 damaged saplings cut back at a cost of Rs. 134.

In Central Thana, a coupe (XVI-24) in Wada range was cleared of dead bamboos and in Kolaba soft woods weeded in the young *casuarina* plantations.

#### Central Circle.

There is little to record under this head.

Prickly pear.—Systematic eradication in babul coupes was carried out at a cost of Rs. 516; and creepers were cut by guards' labour; experiments in the erection of tals were continued, Rs. 58 being spent in East Khandesh, 200 in North Nasik, 199 in South Nasik, 75 in Poona, and 85 in Satara. The work has hardly been in force long enough for an estimation of results to be made, but in Poona villagers are reported to have repaired some old tals on their own initiative, a sign that their lands lying immediately below had benefitted.

#### Southern Circle.

Wild Animals.—The Divisional Forest Officer, Kanara Northern Division, reports that wild elephants did a certain amount of damage, most especially to young dhamni poles.

Climbers.—These were cut as far as possible in all working plan areas of Kanara, Belgaum and Dharwar by forest guards without cost.

Water.—About a hundred young plants in the Casuarina plantation at Kasarkod were washed away by the sea caused by the shifting southwards of the Honavar bar. Kuran lands in Herkal and Chik-Gulbal of the Bijapur division were washed away by flood along the Krishna river. To prevent erosion it is proposed to sow sindi palm seed along the banks as also jili seed (Sesbania aculeata).

Lantana.—In Kanara Northern Division orders were issued to eradicate the Lantana seedlings round teak growth as far as possible so as to facilitate the exploitation of coupes on the Dharwar frontier where its growth is too dense. The Divisional Forest Officer, Dharwar, states that the unrestricted growth of Lantana unless suppressed by eradication is likely to diminish the future supply of grass. In view of the fires that occur, however, this is perhaps not an unmixed evil.

#### Sind Circle

The season in Upper Sind was a comparatively mild one and frosts were not numerous or severe. Some injury was caused to young babul in the Sukkur division, but the plants mostly recovered later on. Tali seedlings were successfully hooded to protect them from frost. Creepers were cut by the guards in all divisions. In the Jerruck division there were severe frosts in February, and even as late as the middle of March. These naturally caused somewhat serious damage. A scourge of defoliating caterpillars appeared in November and lasted till well on in the hot weather. These devoured thousands of seedlings and also the leaves of full-grown trees. In consequence the babul pod crop was ruined in Mulchand and Shahbundar ranges and about Rs. 1,200 of potential revenue lost. Specimens of the caterpillar were sent to the Pusa Research Institute but could not be identified there. Many closed, areas were opened to light grazing by horned cattle in order to keep down the grass and give the seedlings a better chance. This was attended by good results, as the animals do not eat the babul seedlings and the damage done by their feet is small and more than made up for by the good they do in clearing the dense grass.

#### 4.—SYLVICULTURE.

#### (a) Natural Reproduction.

#### Northern Circle.

#### (i) From Seed.

In Panch Mahals owing to the famine of the previous season most trees seeded badly, mhowra (Bassia latifolia) being an exception.

н 850--9'

Owing to excessive grazing necessitated by the absence of fodder elsewhere natural reproduction was bad.

Seedlings of padhai bamboo (*Bambusa arundinacea*) were found in quantity in the Dangs, also in the Thána and Kolába districts.

The report of teak reproduction in the Kolába district was hopeful. In the Thána district, teak seedlings are noticed in coupes three or four years after felling, not before. It is universally agreed that the seeds of most other species germinate quicker and generally dominate the light-demanding teak, necessitating early thinnings of young injaili "advance growth."

In more remote areas, such as in the Dangs, where it is not pecuniarily profitable to remove firewood or even charcoal, the sylvicultural future of our teak forests seems to depend on our finding a market for other species the removal of which will open up the canopy. It will be our duty to endeavour to persuade the railways (particularly the light railways) to accept other variety of wood than teak for their sleepers. There are many species available such as :- Terminalia tomentosa, Adina cordifolia, Lagerstroemia microcarpa, Stephegyne parvifolia, Albizzia Lebbek, and Albizzia procera, which have been found to be most durable if treated with green oil or similar preparations.

### (ii) By coppice shoots.

Teak coppied well everywhere in the Circle south of and including the Dangs. In the Panch Maháls where the previous drought was most felt dead wood fellings had to be again undertaken; in the case of mature trees still green at the base fair coppice shoots were obtained, but many younger trees below 12" girth were quite killed.

#### Central Circle.

Two successive years of insufficient rainfall have naturally had an adverse effect on natural reproduction from seed. From all sides come reports of a lean seed-year of the more important trees, of seedlings which did germinate with the first rains perishing in the subsequent long dry spell, of the ill-effects of excessive grazing, and of the anjan leaf concession having resulted in the simultaneous destruction of the seed on the trees. On the other hand, regene. ration by coppice shoots is less affected by the above conditions, and is reported to be vigorous and satisfactory everywhere. The effect of fire protection in. Khandesh is very noticeable; for years the forests had been becoming more and more open under the influence of fire (and in some places overcutting which has now been stopped), and more and more overrun by coarse and useless grasses, but already a change can be detected in the quantity of natural regene-. ration that is springing up, and given continued protection, evidence of the possibility of the improvements of these forests is everywhere visible. Natural regeneration of riverside areas within the flood limits in the Poona babul forests is stated to have been excellent, as also of sandalwood in one coupe where this species is replacing the babul. Near Satara the growth of sandal is said to be showing remarkable results; the high value of these trees when mature makes this fact of considerable importance. On the Poona ghats the bamboos and karvi flowered, and the effects on natural regeneration will be carefully watched.

#### Southern Circle.

Kánara.—Reproduction from seed was fair in the Haliyal, Bomanalli and eastern portion of Dandeli ranges and bad in the western half of Dandeli, Yellapur, Kulgi and Gund teak tracts. Even where forests were open through the bamboos dying, teak seedlings were scarce. In the coast and southeastern tálukas honne, kindal and harda seeded freely.

In Belgaum the death of bamboos and karvi belped towards the development of scattered seedlings. Bamboo seed also germinated on burnt areas, though not so freely as on unburnt. Seedlings in Dhárwár division are reported to be thriving well. In Bijápur the reverse was the case, for where the seed germinated freely in July and August, the plants died for want of moisture in the hot weather.

Coppice reproduction was satisfactory in all the divisions. In a few localities the growth was weak, stunted and inferior but that was entirely due to poor quality of the soil.

#### Sind Circle.

The area inundated was 4,40,877 acres as against 374,730 acres the year before. Natural regeneration on the flooded area both from seed and coppice was satisfactory but the seedlings were somewhat damaged by frost in Upper Sind and much damaged in Jerruck by frost and caterpillars. Given sufficient water, natural reproduction is a certainty.

#### (b) Artificial Reproduction.

#### Northern Circle.

#### Regular Plantations.

1

			Cost	
Panch Maháls Surat Do. Do. Central Thána South Thána	Godhra Nursery Velvach Delvada Vejalpur Alman Pelhar Mulund Nagaon	40,600 25,600 24,000 3,100 300 7,038	other plants teak other plants teak other plants casuarina plants	$   \left. \right\}  164 \\   \left. \right\}  174 \\   \left. \right\}  174 \\   \left. \right\}  592 \\ $

#### Cultural operations.

In Panch Máhals 975 maunds of teak and other species were dibbled in blank areas.

Surat.-25 bags of teak seed, 124 bags junglewood seed dibbled in old coupes in Bulsar range; 5,228 teak and junglewood plants planted out in Mandvi range from seven local nurseries. Six bags of teak-seed and 17 bags junglewood seed dibbled in felled coupes.

In the *Dangs*, 19 bags teak seeds sown in local nurseries to provide plants for improvement fellings, 8 bags teak and 38 bags junglewood seed broadcasted in the felling area.

In North Thána, seed was sown in 2,550 patches one foot square, Khair and Ain germinated, teak germination poor.

In Central Thána, dibbling seeds direct into exploited coupes was tried.; results were fair.

In South Thána, 237 maunds of seeds of all kinds were dibbled and broadcasted in coupes. 5,619 plants raised by the side of water courses were also transplanted. In each round a plot of an acre was ploughed and sown with seed. Results generally satisfactory.

In Kolaba, 702 maunds of seed of teak and various species were dibbled in open forests under cover of bushes. 14,275 plants reared in temporary nurseries were put out.

#### Central Circle.

Exploited coupes and blanks in babul forests were as usual ploughed and resown, the results being everywhere satisfactory except in North Násik, where the failure of the rains was the cause. The system of agriculture-cum-forestry was continued in two of the Khándesh Divisions and in Poona; in the former results were poor, partly owing to deficient rainfall, partly to the unsatisfactory nature as a cultivator of the Bhil, who will probably have to be replaced to a certain proportion by the Kunbi if the desired objects are to be attained. In the latter no good results have yet been attained, but the work will be given a further trial under careful supervision. In the Sátára Division systematic sowing and planting of indigenous species in pits and in beds in exploited coupes was carried out with, in places, excellent results. In North Khándesh the bamboo plantations were extended and met with success. In Poona teak plants were raised in the Hivre Botanical Garden and planted out in the forests, the results being reported to be very favourable. In South Násik in the Satpur regular plantation, careful experiments of different methods of plantation work were carried out with a view to the acquisition of knowledge as to the most satisfactory manner of regeneration of our Deccan forests, and to the eventual application of such knowledge on a large scale in place of the somewhat haphazard operations which each Divisional Forest Officer now carries out according to his own ideas.

#### Southern Circle.

Regular Plantations.—The Casuariana plantations were extended by 118 acres—78 in Kánara Southern Division, 37 in Kánara Western Division and 3 in Ratnágiri—at a total cost of Rs. 18,729. All the plantations were doing well except the one at Gangawali, where several plants were damaged by cattle which trespassed to drink the distillery waste water drained into this area.

Form No. 18 has hither to continued to show the areas treated from year to year under this head. In this year's form all areas, where the operations have been abandoned, have been deducted.

Cultural Operations.—The system of nursing natural seedlings introduced last year in Kánara Northern Division attained great success. Seedlings were marked by stakes in May and June, weeded in the rains, mulched in the cold weather and shaded from January to April. Plentiful rain of the year was favourable and scarcely any seedlings died. The pole forests of Haliyál range which are barely half stocked are likely to benefit by this treatment. The number of natural seedlings cultivated, including transplantations, was 32,609 in 1912 and 87,956 in 1913. In the high forests 38,830 plants were put on in blanks caused by the dying down of bamboos in the Dandeli range, 13,095 in Gund range and 28,174 in Kulgi range. The cost incurred was Rs. 1,529.

The Divisional Forest Officer, Southern Division Kánara, reports :--"Blanks in the below-ghát coupes were filled up. In the coupes at Gersappa teak were planted and established themselves. In the old coupe at Dasangadde the teak coppice is very vigorous."

Eastern Division Kánara.—Four nurseries were maintained on the Kalanadi Slopes and one in each of the 12 blocks of the pole area. Teak seedlings planted out from nurseries grow very slowly. In many cases teak seed dibbled in during the rains of 1912 came up these rains; on burnt areas where the seed was dibbled in soil mixed with the ashes of burnt trees the results were satisfactory. Six-and-half bags of teak seed and an equal quantity of bamboo seed were dibbled in over 60 acres in Yellápur; 11,700 seedlings were raised and transplanted in the same range. Six bags of teak seed and 5 of matti were dibbled in the coupes exploited this year. The charges incurred under this head were Rs. 1,129, the area operated on being 7,868 acres.

Kánara Western Division.—In the blanks planted out last year 1,500 teak and 3,000 matti plants are doing well. A further 2,000 teak and 2,000 matti have been added. The planting in the 1,912 coupes gave good results, notwithstanding the damage done by rodents.

Belgaum.—Fifteen hundred teak were dug up, where found growing too thick, and put in a small nursery at Tavargatti. From this nursery 630 teak were planted out in closed coupes. Most of the plants put out in Nagargali Series XIX are reported to have been destroyed by wild animals. The expenditure incurred was Rs. 591, being the wages of coupe mális.

Dhárwár.—Thirty-eight maunds of teak, sissum and junglewood seeds and two maunds of sandalwood seed were broadcast on 689 acres in cuttings as well as in blanks in all ranges by the subordinates without cost. Two thousand four hundred and seventy-nine seedlings that germinated last year were in good condition.

Bijápur.—About 320 maunds of nim, maswal, etc., seed were sown in pits on 885 acres in hill coupes but the result was no better than last year due to the failure of late rains. The efforts made in Kuran coupes by sowing bábul seed along with cereals have succeeded splendidly besides bringing in small amounts of revenue to the Department. Teak seedlings in the Kurans referred to last year are 4 feet high and looking excellent. The expenditure was Rs. 59.

Ratnágiri.—There were 5,770 plants in the Dápoli nursery at the commencement of the year. Five hundred and twenty were newly raised, 4,290 died and 2,830 were transplanted. Casuarina, teak, ain, kindal and bamboo are the chief species.

#### Sind Circle,

Regular plantations.—The only regular plantations in Sind are those of tali (Dalbergia Sisso). There were 172 acres under regular plantations at the beginning of the year. Ninety-three acres were added and 7 were eroded or abandoned. Total at the end of the year 258 acres. It is a question whether the expenditure on these plantations is worth the results obtained. An enquiry into this matter is at present being made.

As to Kot-Sultan plantation in Sukkur Division the original idea of planting 100 acres had to be abandoned for want of water. For this reason the plantation was limited to 78 acres. Except tali and mulberry seedlings the other species (siris, ber, bábul and kandi) are doing well. The Public Works Department is being asked if it can supply more water.

The old established gardens were maintained as under :--

••••••••••••••••••••••••••••••••••••••	۰.	, y 1				Rs.
Sukkur Division— Rahuja at a cost of Hyderabad Division—		• • •	. ,			2,222
Miani Bungalow "Monument "Mango garden	}	at a cost of	•••		•••	1,354
	•			Total	•••	3,576

Cultural operations.—These are of two kinds: (a) Forestry-cum-agriculture (by lift irrigation) and (b) broad-casting on bare areas and exploited coupes which receive flood water. Under the first method 2,208 acres were brought under regeneration, the assessment (amounting to Rs. 5,773) being credited to the Revenue and Public Works Departments by book transfer. This is for lands which get water from Public Works Department canals. The results reported were on the whole not good owing to low water in canals. This is not a satisfactory system and orders have been issued to confine it to lands where it will really be a success, *i. e.*, where the land will leave the hands of the cultivator in a *better* state (from a forest point of view) than when he took it. In many lands inspected it was observed that the temporary cultivation had resulted in the deterioration of the forest growth or in its total disappearance.

Under the 2nd system 2,683 maunds of babul and kandi-seed were sown throughout the Circle. Some of the results obtained from these sowings were splendid. As a type of many may be mentioned the following :---

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A blank was sown broadcast with bábul seed in Keti Lalia forest in Sehwán Range in September 1912, when there were about 4-6 inches of water on the ground. Seedlings inspected on November 21st. The water had dried up, the ground was moist and the seedlings were about a foot high and very numerous. They were expected to be 3 feet high by June 1913. An adjoining plot sown in September 1911 was seen. There is a dense crop of bábul seedplot sown in 0 to 15 feet high, and beyond the reach of damage from any lings from 10 to 15 feet high, and beyond the reach of damage from any animals except camels. The above is only an isolated instance of what can be done, and what *is* done where water is available. Equally, good results were observed in various places in all Divisions.

# (c) Operations for the Improvement of the Growing Stock.

# Northern Circle.

No weedings, thinnings, girdlings or improvement fellings of unsaleable stock were carried out. Some of the older Thána fellings require these and the work will be entrusted to the Working Plans Officer when appointed. Creeper cutting has been mentioned previously.

# Central Circle.

In the South Násik Division, girdling of useless species in the coupes of the year are carried out by contractors under their agreements. In Poona special attention was paid to the cutting of climbers which were damaging growing trees, and to the freeing of valuable seedling growth from overhead cover which would interfere with it. The subordinate establishment were also instructed as to the thinning out of superfluous coppice shoots growing from one and the same stool.

#### Southern Circle.

The chief operations carried on under this head in Kánara Northern Division were :---

Saplings freed from infringing growt Do. do. do. do. do. Trees, poles, etc., freed from interferi Do. do. do. do. do.	ng growth	teak. other species. teak. other species.	1,271 1,566 355
Inferior species girdled	••• •••	••• '•••	65
Climbers cut	••• . •••	•••	19,779

Besides these, 16,273 unsound teak, 44 blackwood and 2,402 jungle wood trees were marked for felling in Block VII. Also 1,280 unsound teak trees were felled in Block VI for conversion into sleepers.

Kánara Southern Division.—Creeper cutting was carried on as usual. Teak coppice in Dasangadde old coupe was thinned and also the teak in the surrounding jungle. Below-ghát the teak near rubber plantation were thinned and teak in the Nagarbastikeri-Begodi tract were freed.

Kánara Eastern Division.—Fifty-six thousand five hundred and thirty-two bamboos, 2,518 interfering trees and 16,012 useless teak were cut. 41,288 teak seedlings were freed and 974 trees were lopped of branches and about 65,000 creepers were cut.

Kánara Western Division.—Creepers were cut as usual and thinnings were continued in the Kadra teak plantation. A thinning was also made in the oldest Casuarina plantation at Kodibág and 400 dead and dying dominated poles were removed.

Belgaum.-Cultural work done was:-

Creepers cat			•••		9,640
Bamboos cut	•••		•		1,004
Teak seedlings fro	ed		***		2,879
Junglewood do.		•••	• • •	•••	230
Badly grown teak	shoots	cut level with	the ground		1,838
	Jungl	ewood	•••	**4	1,997
Trees girdled	•••		•••	• • •	<b>4</b> 4
Trees of which by	rancnes	were cut off			141

Bijápur.-The only operations done and needed was the thinning of the bábul crop in Galgali where it was too dense.

#### Sind Circle.

The only operations were the cutting of creepers all over the Circle, and some small thinnings in the Jerruck Division. These latter were very successful and effected a real improvement in the forests besides yielding some revenue.

#### (d) Experiments.

#### Northern Circle.

No new species were introduced, Casuarina plantations were extended and notes made on the rubber trees already put out. It is believed that the distribution of rainfall in the Circle is inimical to the rubber plant which suffers both from excessive rain and drought. It is attacked by pigs when planted out, and suffers from uprooting by wind: sickly trees are also attacked by white ants. It is proposed to shortly try tapping of Ceara and Para trees. *Ficus elastica* trees in Central Thána are healthy but their growth compares vary unfavourably with that in Assam.

#### Central Circle.

Few were carried out. In South Násik hirda trees were freed from surrounding growth to see if the crop of fruit was thereby increased, the experiment being based on the well-known fact that trees in cultivated lands yield larger crops than do those in forests. In Poona experiment was made to see if the germinating qualities of the hirda seed could be improved, and results were promising. If successful the experiment should be of value, for hitherto attempts at artificial propagation of this tree have been labour lost. In East and West Khándesh experiments with lac were continued with moderate results. In the former division it has been proved that there is no difficulty in spreading the lac by artificial infection of fresh trees, but all efforts to prevent its subsequent destruction by its chief enemy the black ant, which kills the insects, have so far proved a failure. In the latter division there was insufficient supervision of the work owing to the diversion of the Forest Staff on Famine Grass Operations. The experiments will be continued, for the quality of Khandesh lac is excellent, and experience in other Provinces has shown that its cultivation can be a very valuable source of revenue. In Sátára the Divisional Forest Officer continued his experiments in the culture of fruit trees with most promising success, 273 grafts of various species, mango, custard apple, sweet lime, loquat, pomegranate, guava, orange, raspberry, fig, pumelo, peach, pear and bullock heart being distributed in various localities with a very slight percentage of casualties. Excellent Cooking pears were obtained from the old trees at Lingmalla, while figs in the Pátan Range are said to have left nothing to be desired.

#### Southern Circle.

#### Nil.

### <sup>C</sup> Sind Circle.

Attempts were made in the Hyderabad Division to extend the lac bearing area but with very poor results. The failure is due principally to a very hot season which seems to have almost annihilated the broad lac. Further experiments are being made in Hyderabad and Jerruck Divisions.

# 5.---EXPLOITATION.

- (a) System of Management.
- (i) Major Forest Produce.

# Northern Circle.

The following table gives the application of the various sylvicultural systems in force as ordered by Government Resolution No. 1542 of 17th February 1913:--

	clear i by con	od of fellings mpart- nts.		form hod.		onp hode		ction hod.;	Sin copi	nple Jice,	stand	co with lards,	Impro	1	not u	nd area inder og Plan.
Division.	Area in square miles.	Porcentago of total a ca undor sylvicultral system.	Area in square miles.	Percentago of total area under sylvicultural system.	Arca in square miles.	Percentage of total arca under sylvicultural system.	Area in square miles.	Percentage of total area under sylvicultural system.	Area in square miles.	Porcentage of total area under sylvicultural system.	Area in square miles.	Percentage of total aren under sylvicultural system.	Area in square miles.	Porcentage of total area under sylvicultural system.	Area in square miles.	Percentage of total area nucler system.
Panch Mahals.,			•		498	 		,     •••			278	83.7	26	7.9	28	8.4
Surat							}	   •••			68	9'8	159	22.0	497	66-7 '
North Thána							21	7.4		•••	308	91.7			3	.9
Çentral Thána,			1				13	35			356	€6•5		-	•••	
South Thána						 •••	88	8			326	99-1			3	1.1
Kolába						•••	2	.3		}	4:4	92•0			34	5-6
Total		,		· [		   •••	42	1.2			1,750	68 9	185	7.2	565	22.2
		]			1	1	1	1	ł	ţ	1	Į.	1	1	1	}

#### Clear fellings.-None.

Selection fellings.—Were prescribed for Talasari Maháls forest and Blocks I and II of Mokháda, but were held up for want of roads which are here lacking; a road is to be aligned shortly which will link up with one already made by the Public Works Department to the villages below-ghát in the Násik Táluka.

Coppice with standards.—This is the system adopted everywhere but in the Dángs, Talasari and Mokháda. Contractors working in all divisions; area sold in 1912-13 acres 22,462.

Improvement fellings.—Started this year in North Dángs over an area of nearly two square miles in advance of the working plan which has been written but not yet sanctioned. Fellings of the kind also take place in the Mátherán plateau forests.

Unregulated fellings.—These still continue for revenue in Central and South Dángs, but working plans on the same lines as that for the North Dángs will shortly be applied and place this area under systematic management.

### Central Circle.

Clear fellings.—These were undertaken in babul forests only, 45 coupes of a total area of 428 acres realizing Rs. 39,465 or an average of slightly over Rs. 92 per acre.

Improvement fellings.—In Poona abnormally high floods did much damage in babul forests by erosion and uprooting of trees. Two lakhs sixty-nine thousand one hundred and thirty-three cubic feet of fuel, the result of the damage, were extracted departmentally and sold for Rs. 9,795. Similar work on a small scale was done in East Khandesh.

A felling under the Lonávla Working Plan for the supply of fuel to Lonávla and Khandálla proved a failure, as labour could hardly be obtained to bring up the material from the precipitous ravine in which it was cut. Operations under this plan will have to be suspended. In North Násik overmature and diseased anjan trees were removed at a good profit, and in South Násik similar operations were undertaken in the Akola forests with a view to supplying the town of Akola with fuel, to stopping the harmful head-load traffic prevailing, and incidentally to improving the growing stock.

In East Khándesh, the work of removing dead and dying trees, the legacy of the drought of seven years back, was finally completed, 4,330 acres being worked over and Rs. 7,874 realized. Similar work was done with teak and other species in West Khándesh where 128,650 cubic feet realizing Rs. 4,833 were extracted.

In Sátára the Mahábleshvar plateau forests were subjected to thinning to provide for the fuel supply of the towns of Mahábleshvar and Panchgani.

Selection fellings.—These were undertaken in three divisions In South Násik 28 coupes in the below-ghát forests of Peint and Dindori, 3,150 acres, yielded Rs. 15,045, or Rs. 4-12-2 per acre. In West Khándesh four coupes in the Deomogra reserve and five coupes in anjan forests, in all 2,047 acres realized Rs. 4,503, or Rs. 2-3-2 per acre for 38,006 cubic feet of material extracted. In North Kbándesh practically all work is under the selection system, 28 coupes realizing Rs. 30,520.

Coppice fellings—Sanctioned working plans provide for these in the Sátpura forests, the Edlabad anjan and scrub forests, and the Chálisgaon forests of East Khándesh, the Umarpata forests of West Khándesh, the aboveghát forests of North and South Násik, and the mixed forests of Poona and Sátára. True coppice fellings, however, are not invariably carried out, especially in Khándesh and Násik, where dearth of labour, lack of markets, and the unsuitability of the working plans to prevailing conditions, result rather in a system of selection being followed, purchasers only removing such maternal as they can hope to dispose of at a profit and leaving the remainder. In all 10,695 acres were nominally worked under the coppice system, the revenue being 53,521, or Rs. 5-7-6 per acre on the average of the whole, but varying in different divisions from an average of Ks. 19-6-9 per acre in Poona where the demand is keenest, to as little as Rs. 2-9-3 in West Khándesh, and 2-10-1 in East Khándesh. In the Násik Division too the average is but little higher.

Unregulated fellings.—In Government forests these were carried out in the Akrani in North Khándesh where a few fellings were made to supply the wants of the local population, and in future even these will be regulated by a simple scheme that has been drawn up. Elsewhere there were no such fellings except such as were necessary to provide for free grants of forest produce of various sorts.

The usual fellings of teak and other royalty trees in occupied and waste lands were carried out in all divisions. It is unnecessary to give details as the matter is not one that strictly comes under the head of management of State forests; it is only referred to, as the Collector of Sátára, in his remarks, which will be found at the end of this report, has commented on the rapid denudation, noticed by the Divisional Forest Officer in his report, of all tree-growth outside forest. His remark could of course be applied to the whole circle, and the Conservator can but agree that the inevitable end must be rise in the price of all forest produce, and increase of demand which the forests will find it difficult to meet, and in the case of pasture forests, unless the tree-growth on them is strictly preserved, a serious diminution of the grazing areas. The question, however, is not one of forest administration, pure and simple.

#### Southern Circle

Clear fellings.—These were made over 6.5 acres of Kodibág Casuarina plantation in Kánara Western Division. The revenue realized was Rs. 3,570 which gives an average of Rs. 549 per acre against Rs. 385 in 1911-12. In Bijápur 2 bábul coupes measuring 32.14 acres were worked out departmentally at a cost of Rs. 1,558. The produce was sold for Rs. 6,579. The net revenue per acre was Rs. 155.

Selection fellings.—The following operations were carried on in Kánara, Belgaum and Dhárwár Divisions:—

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	•	. <b>N</b>	umber of trees cut	•
Division.		Teak.	Blackwood.	Junglewood.
Organized Area.		·····	· · · · · · · · · · · · · · · · · · ·	
Kánara Northern Division Kánara Eastern do Kánara Western do Balgaum Division		2,981 5,952 264 126	769  48 38	914 1,634 898 92
. Tota	ı[	9,323	855	3,538
Unorganized Area.	·	· · ·	· · · · · · · · · · · · · · · · · · ·	
Dhárwár Division		500		
Total of 1912-1	3	9,823 .	855	3,538
Total of 1911-1.	2	6,396	894	2,363

In the Gund range of Northern Division, Kánara, the work is four years in arrears. So also in the Nagargali Series XIX the work has fallen heavily into arrears. By the recent change in the method of working, *i.e.*, "selling standing coupes" there is a probability of over-taking the arrears in the latter.

The road train and its working, etc., is treated under Chapter V.

Improvement fellings.—Were conducted in Blocks VI, VII and XX of Northern Division, Kánara, where unsound teak, blackwood and junglewood trees useless for timber were cut and converted into fuel and sold at Tavargatti. Owing to the distance from places of consumption and to the consequent lack of demand for material turned out it was impossible to carry out similar necessary operations in Kánara Eastern Division.

Coppice fellings.—This method of exploitation was adopted in all the divisions except Ratnágiri both in organized and unorganized forests. The revenue realized per acre increased in all other divisions except Belgaum which alone shows a decrease as detailed below :—

	Division.		Area in	Revenue	per acre.	
· · · · · · · · · · · · · · · · · · ·	٠		acres.	1912-13.	1911-12.	Quality.
Orga	nized Areas.	;		Rs.	Rs.	···
Kánara Northern Kánara Eastern	Division do	•••	799	156	138	Teak poles.
		•••	590	10	10	Teak poles and fuel.
Kánara Western	do	••••	1,550	32	24	Timber and fuel.
Belgaum	••• ••• 、	Į	139	115	162	Logs, poles and
	•	t	<b>2,</b> 254	75	105	fuel. 7 Reilwor for 1
Dhárwár	•••	• • •	<b>69</b> 0	52	36	Railway fuel. Poles and fuel.
	Total for 1912-1	3	6,022	66	•••••	-
	Total for 1911-1	2	4,927		78	-
Unorg	anized Areas.			-	·	
Kánara Southern	Division		330	14	13	
Belgaum Dhárwár	•••	••••	3,142	. 3	11	Timber and fuel. Local fuel.
Bij <b>á</b> pur	***	•-•]	200	17	15	Fuel.
-Jahar	***		626	2 8	7	Do.
	Total for 1912-18	3	4,298	5	•••	-
	Total for 1911-1	2	2,585	•••••	11	•

Hubli is the market for the consumption of material from the coupes of E. D., Kánara, but with matters as they stand at present transport of material has not been a profitable business and the purchasers find it very difficult to dispose of their produce. A steam tramway between Hubli and Mundgod might do away with these difficulties but the Forest Department cannot undertake such a project.

Unregulated fellings.—In Kánara, Northern, Eastern and Southern Divisions and Dhárwár, 1,879 trees of sandalwood were uprooted and the heartwood amounting to 186 khandies together with roots, chips, etc., was sold for Rs. 49,802. This is a record price. Besides this 30 trees in the Bijápur Division were sold standing to be exploited by the purchasers themselves for Rs. 241.

#### Sind Circle.

Clear fellings.—The coupes exploited throughout the Circle in accordance with the provisions of the working plans come under this head. Ten thousand five hundred and thirty-nine acres as compared with 8,867 acres of the preceding year were worked in this manner.

Improvement fellings.—The removal of standing and fallen dead trees was carried out in the Hyderabad and Jerruck Divisions as sanctioned in Government Resolution No. 10562, dated 26th October 1907. The area worked over was 11,947 acres as against 15,174 acres in 1911-12.

#### Selection and coppice fellings.—Nil.

\* ...

Unregulated fellings.—Under this head come the cuttings on lands threatened with erosion, free grants, and wood cut to meet urgent demands of the Public Works Department. The area so cleared during the year was 3,524 acres as compared with 2,750 acres the year before.

#### (ii) Minor Forest Produce.

#### Northern Circle.

Details are shown in Form No. 20. All such produce is disposed of to petty contractors. Grazing is regulated by special rules in force in the various districts, round guards collecting grazing fees except in the Panch Maháls where this work is still delegated to village officers.

Bamboos having seeded were sold at cheap rates in the Panch Maháls, Dángs, North and Central Thána and the forests gained by clearance of the dead and highly inflammable culms.

One thousand two hundred and tifty lbs. of bamboo seed were collected in the North Thána Division and quickly bought up by Local Boards, Municipalities and the Public Works Department. Much grass in closed areas was given free to the people during the year.

#### Central Circle.

Full details of the exploitation of minor forest produce are given in Form No. 20. The most important items were hirds, mhowra seed, bamboos and rosha grass and grass and grazing.

As remarked in last year's report, the departmental system of hirda collection has now everywhere been abandoned as unsatisfactory. Except in Rájur and Akola in South Násik, the crop is sold standing and receipts amounted to Rs. 10,979 as against Rs. 16,217 in the previous year, the crop being poor. In Rájur and Akola the same system cannot be followed owing to lack of contractors who will purchase the crop, and the introduction of a royalty system, whereby a fixed quantity of fruit, to be inutually agreed upon by the Forest Department and the people, is to be handed over to Government free of charge, while the people take the balance of the crop for themselves, was sanctioned by Government last year. Special report has recently been made to Government in the matter, and it will therefore suffice to say here that though some difficulties have been met with, yet the system gives such promise of success as to justify a further trial. At any rate in the year under report, the revenue, viz., Rs. 7,221, realized on a scanty crop, has only once been exceeded under any previous method of collection, while this favourable result was also obtained without the general dislocation of work, consequent on the necessity of drafting in-guards from other ranges to supervise departmental collection, which formerly prevailed.

Rosha grass yielded Rs. 10,616 as against Rs. 12,037. This is a product which, under improved methods of extracting the oil, might become of considerably higher value, and efforts are being made by the Forest Economist at Dehra Dun to induce a Bombay firm to erect proper stills and to work on scientific lines. The methods followed now by the purchasers of the grass are crude in the extreme.

The mhowra seed crop was collected departmentally in the North and West Khándesh and North and South Násik Divisions. The crop was poor and the profits realized only amounted to Rs. 3,288 as against 37,724 in 1911-12. The increasing value of this product has resulted in Khándesh in an influx of merchants who by paying a slightly higher rate than does Government, manage to attract to their depôts, it is feared, a good deal of seed from Government forests. There is of course every reason why Government should not pay the same rate as merchants, for in the case of the former the amount paid represents merely wages for collection of Government property, while in the case of the latter it represents wages for collection plus price of the seed to the private owners of the same. The notifying of mhowra seed as forest produce under the Forest Act has been of considerable help, in that transit passes are necessary for its removal, but even so check on diversion of Government seed to private depôts is very difficult to prevent.

Grass and Grazing.-As a result of the continued scarcity, the demand. for grass for cutting exceeded even that of the previous year which was the highest on record. Everywhere the price obtained for kurans showed a large rise, and more particularly, in East Khándesh where, owing to the prevalence of cotton, the forest grass is practically the sole fodder in the district, in Poona where the advantages of forest areas being reserved for cutting of grass rather than for grazing are being yearly more appreciated by the people, a most healthy symptom, in Sátára, and in North Násik owing to the famine in the adjoining. Ahmedragar District. The total receipts under this head amounted to Rs. 3,61,116, an increase of Rs. 32,003 over the previous year. Better proof. could hardly be given of the economic value of the forests to the country in the matter of its cattle, nor indeed of the fact that closure of the forests, apart from the necessity of the same in their interests as timber and fuel producing areas, is in the best interests of the country, even if it does result in a certain amount of grievance from the impounding of cattle. As has been already pointed out, without closure at the proper season of the year there can be no subsequent supply of grass, and there can be no question that as time goes on the wasteful. system of grazing must inevitably be replaced by stall feeding if the cattle of the country are to be provided for at all in the way that they should be.

In addition to the grass removed by the people by cutting and by grazing, famine fodder operations were carried out in the South Násik and West Kbándesh Divisions, 2,898,802 lbs. being collected in the former and 2,500,000 in the latter. Of the South Násik grass 1,834,287 lbs. were disposed of to districts where scarcity prevailed and 1,064,515 lbs. are on hand, the same being kept partly as a reserve against possible necessity, happily not realized, in the current year and partly because it could not be disposed of before the rains. The reason of excess collections over disposals was that the Ahmednagar needs proved less than was at first feared. The 25 lákhs lbs. on hand in West Khándesh represent the permanent reserve which has to be kept in stock for Government by Mr. Bhiladwala under his agreement.

#### Southern Circle.

The system of disposal of minor produce has remained much the same during the year, the directions laid down in Government Resolution No. 9846, dated 15th December 1912, being followed.

#### Sind Circle.

Lac, fish, bábul, bahan, and kandi pods, sar and kanh grass are farmed out to contractors; other grass is either allowed free or sold on permits at fixed rates. Grazing is free or on permits.

#### (b) Agency of Exploitation.

#### (i) Departmental Agency.

#### Northern Circle

# A few works which occurred under this head are the following :----

Extraction of dead wood in the Panch Maháls. It was obviously impossible to let this kind of wood be removed from the felling depôts. The disposal of this class of timber was, therefore, kept in the hands of the department.

Improvement Fellings in the North Dángs.—The growth here is typical of so many forests in India where the trees have been subjected to unregulated fellings for many years. The growth which is largely unsound at the base is not saleable standing on the spot owing to the distance from the railway. A saw mill has, therefore, been started, and the unsound parts of large logs are converted into s eepers, boards and battens, the work being departmental throughout.

In Central Thána one coupe left uncut by a defaulting contractor was partly exploited departmentally.

In Kolába at Mátherán, 13,110 maunds of fuel were extracted departmentally, and a coupe in Mángaon was cut by the department for local supply.

#### Central Circle.

This method of exploitation is but little used, and in cases of coupes, only where they fail to find purchasers for the standing material, or in clearing up outstandings of contractors' works. Of 223 coupes worked during the year, departmental agency was only required in 10 cases. The selection fellings in the Mahábleshvar Plateau Forests, as also extraction of dead and fallen trees in babul forests in various divisions, were also carried out in this way. Of minor produce mhowra seed alone is collected departmentally, and in famine years, grass.

#### Southern Circle

The outturn of timber, fuel, sandalwood and grass cut and disposed of departmentally during the year compares with the average of past three years as below :---

······································	)	Å	erage of pr	eceding 3 y	ears.			-	19	12-13.	<u> </u>	<u> </u>
Forest Produce.	Balance.	Exploited during the year.	Total.	Disposed of during the year.	Cost.	Re- ceipts.	Balance.	Exploite ed during the year.		Dispos ed of during the year.	Cost.	Re- ceipts.
<i>Major.</i> Timber Fnel	C. ft. 485,071 597,415	C. ft. 791,621 3,519,664	C, ft. 1,276,892 4,117,079	C. ft. 664,895 3,522,813	Rs. 3,32,913 1,34,171	Rs. 7,60,518 2,58,782	_	1,661,721 3,595,570	2, <b>406,2</b> 18 4,184,101	C. ft. 1,021,947 3,190,786		
SandalwoodValue.		Rs. 24,193	Rs. 24,767	Bs. 24, 367 No.	2, 10 <del>4</del>	25,272	Rs. 75 No.	Rs. 49,737 No.	Rs. 49,812 No.	Rs. 49,802 No.	•••	49,802
<i>Minor.</i> Bamboos	No.	No. 13,609 Bs.	No. 13,609 Rs.	13,609 Bs.	117	169	 Rs.	 Rs.	 Rs.	Bø.	2,760	•••
rass and other minor produce	R5. 327	137	464	74	6,047	43		28, <b>44</b> 8	28,448	28,413	2,287	28,448

The quantity of timber exploited during the year was more than double of that of 1911-12 and that of the average of the past three years. Most of this H 850-12

increase occurs in Kánara Northern Division where, though the timber brought to the Tavargatti depôt was about half that of the previous year owing to the failure of the road-train, the carts which might have been employed on carrying timber to Tavargatti were engaged in bringing it to the roadside depôts, 8 to 15 miles away. Thus there is an exceptionally large quantity in these depôts. The percentage of timber exploited departmentally to the total outturn was 71 against 59 in 1911-12.

In fuel while there was a rise of 75,906 c. ft. over the average of past three years, there was a fall of 82,669 c. ft. compared to the outturn of 1911-12. The shortage is ascribed to want of means of transport of railway fuel in the Belgaum Division. The percentage of fuel exploited departmentally to the total outturn was 44 against 59 in the previous year.

The outturn of sandalwood was not more in quantity than that of previous years, but the revenue therefrom increased greatly, the prices obtained during the year being on an average nearly cent per cent higher all round.

Grass was cut, baled and disposed of departmentally in the Belgaum Division, besides famine grass operations being continued from the previous year. Hence there is an increase in receipts under that head.

The work turned out by the three Government elephants estimated at Rs. 5 per khandi (instead of the old contract rate of Rs. 9) amounts to Rs. 9,502 in value. Deducting Rs. 3,437 incurred on account of the upkeep of the animals, the net profit to Government was Rs. 6,065 in the single year. On the other hand, the Departmental buffaloes did not give such a good return. Six died during the season. Value of work done by the rest was Rs. 5,265, less charges of upkeep Rs. 4,072; the profit was only Rs. 1,193.

The working of the saw mill was unsatisfactory for two reasons—(1) the contractor who had undertaken to supply sleeper pieces to the mills failed, and (2) the mill dam burst late in October at a time when there was no chance of refilling it. The following statement compares the work done by the mill :—

					1911	-12.			1912-1	13.	
	terials			Outturn.	Proportion of revenue credited to the mill.	Charges.	Profit,	Outturn.	Proportion of revenue credited to the mill.	Charges.	Profit.
				•	Rs.	Rs.	Bs.		Rs.	Rs.	Rs.
Teak sleepers	•••	•••	No.	51,827	h .			35,351	20,379	h	
Bridge sleepers	***	•••	•14 99	716	} 35,681	h	1	248	372		
Matti sleepers	•••	•••	93	173	J			373	746		
Jungle wood slee	pers	•••	••• >,	***			1	12,251	2,207	]]	
Teak slabs	•••	•••	C. ft.	22,000	500	} 27,737		28,750	500	22,179	18,789
" scantlings	•••	***	No.	768	1,537	21,101	19,610	6,536	5,314		
"falloes	·	***	*** 74	188	94		Į		******		
", battens	***	•••	••• »	5,799	8,638			9,569	9,569	]]	Į
", boards	***	10g ·	414 22	338	814	IJ	l			ļį	
" planks	•••	•••	*** **	·····				3,074	1,791	μ	
			Total		47,317				40,908	}   	

The monorail which was handed over to a contractor was not worked properly by him. Further efforts are being made.

#### Sind Circle.

× 1

The only departmental operations were for the supply of fuel to Government steamers on the Indus. The quantity thus supplied was 224,559 c. ft., value Rs. 6,524. The expenditure incurred was Rs. 5,728. No profit is expected from this source, the object being to supply Government as cheaply as possible. The slight profit which appears on paper barely meets the cost of supervision.

### (ii) Purchasers.

#### Northern Circle,

Full details are given at the end of the chapter under (c). The total value of the year's sale under this head was :—

<b>3</b>	•		Rs.
Major produce Minor produce	* ###	•••	 12,11,586
Minor produce		••• `	 1,02,200

The working of the permit systems in force continued satisfactory. In North Thána, depôt officers submitted forms and revenue returns direct to the Divisional office, saving much clerical labour in the Range office which only dealt with their expenditure.

#### Central Circle

By this means is extracted practically the whole outturn of forest produce, whether by sale of standing coupes, by sale of dead wood, bamboos, grass and grazing and various minor products on permit, and by sale of royalty trees from occupied lands either on fixed fees or standing by auction.

The coupes offered for sale, those actually sold and the receipts were as under :---

Division.				No. of coupes offered for sale.	No. of coupes sold.	Receipts.	
East Khándesh West Khándesh North Khándesh North Násik South Násik Poona Sátára		••• ••• ••• ••• •••	····	19 15 28 50 80 47 14	19 14 28 50 41 47 14	Rs. 29,840 6,503 30,520 8,224 18,450 48,460 7,389	
		Total		253	213	1,49,386	

or a decrease of 40 coupes sold and of Rs. 20,919 in receipts as compared with the previous year. Owing to scarcity both in the previous year and that under report, the market was poor, and only such coupes as were more favourably situated or as contained valuable material found purchasers. Non-completion of work, too, by contractors in some divisions of the 1911-1912 coupes, and the consequent extensions that had to be given to them, entailed the withholding from sale of various coupes that should properly have been worked in 1912-1913; any attempt to sell them would have been useless, for neither would purchasers have come forward when demand for material was so poor, nor, if they had, could they have carried out their undertakings, and the only result would have been a further prolongation of giving extensions of contracts in succeeding years.

Royalty trees were disposed of as below, and showed a decrease in number and resulting revenue as compared with 1911-1912. This, however, must in the nature of things continue; as once the tree is cut, the Government right over it passes away:—

Div	rision.	No. of trees sold.	Receipts.
West Khándesh South Násik North Násik Poona Sátára	 	47,049 15,052 3 340	Rs. 90,520 23,389 8,750 3,340 2,511
	, Tota	158,237	1,28,510

-	- Division.			Grass. Grazing.		Total.	
· · · · · · · · · · · · · · · · · · ·	· ·			Rs.	Rs.	Rs.	
East Khándesh West Khándes North Khándes South Násik North Násik Poona Sátára	h	   	•••• •••• •••• ••••	84,447 16,361 22,826 10,493 9,863 26,118 12,821	49,613 10,151 24,806 21,517 35,699 18,368 18,033	1 34,060 26,512 47,632 ( 32,010 45,562 44,486 30,854	
		Tot	al	1,82,929	1,78,187	3,61,116	

Grass and GrazingThe receipts fo	each Division	were as below:
----------------------------------	---------------	----------------

The number of cattle which grazed in forests on payment of fees was 1,150,294, somewhat less than in 1911-1912, when, under worse conditions of fodder supply, the pressure from villages far from the forests was naturally higher. Free grazing was enjoyed by 58,795 cattle, mostly the property of forest villagers having that privilege under the North Tápti Code.

Bamboos to the number of 1,224,279, and of value Rs. 14,509, were removed by purchasers, showing an increased revenue of Rs. 937.

Receipts from other minor produce such as rosha grass, hirda, mhowra seed, apta and tembhurni leaves, shikekái, aloes, reeds, thorns and stones realized in the various Divisions were:---

	Division.			Receipts.
	X		e	Rs.
East Khándesh	•••	•••	•••	2,288
West Khándesh	***		•••	4,964
North Khándesh		-	·	5,080
South Násik	***	•		3,613
North Násik				4,990
Poona	•••	•••		3,840
Sátára	′ •••			11,754
		Total		36,529

### Southern Circle.

The following statement represents the quantity and value of forest produce removed by purchasers:----

	Produce.			Average of pas	t three years.	1912-13.		
		•	. 1	Quantity.	Receipts.	Quantity.	Receipts.	
-	Major.			C. ft.	Rs.	C. ft.	Rs.	
Timber Fuel –	•••• ,•••		••••	633,758 2,638,274	1,77,996 45,746	660,693 4,526,496	2,07,320 72,352	
		Total	•••	<b>3,27</b> 2,032	2,23,742	5,187,189	2,79,672	
	Minor.			No.	Rs.	No.	Rs.	
Bamboos Gress and gr Other minor	azing produce		•••	4,512,423 	50,701 71,723 60,164	4,505,659 	48,447 74,685 65,832	
		Total	•••	*****	1,82,588	*****	1,88,464	
	Grand	Total	· • • •		4,06,330	•••••	4,68,136	

The increase in the area of coupes sold as well as better prices obtained for them accounts for the increase in the revenue from the major produce.

Bamboos having seeded last year the revenue on that account was affected to a small extent. The small increase in grazing is due to punitive rates recovered from certain recalcitrant villages. Normal rainfall in up-countries gave an incentive to the trade in general, not excluding minor forest produce.

#### Sind Circle.

Number of coupes and Area Division. Value deadwood lots. exploited. realized. ~ А. Rs. Sukkur 8,277 16 76,356 Coupes 81 ... Nausháhro 39  $D_{0}$ . 3,071 22 ... 15,572 ... D0. 9 653 20 28,500 • • • Hyderabad .... Deadwood 13 9,013 0 77,651 Coupes 1,852 25 45 ••• Jerruck 80,900 ••• **Deadwood** 1,755 32 6 Total, 1912-13 193 24,623 35 2,78,979 Total, 1911-12 15822,486 13 2,50,979

The sales of coupes and dead wood were as under:---

There are increases on the previous year of 2,137 acres in area and Rs. 28,000 in revenue. The average revenue per acre was Rs. 11.33 as against Rs. 11.11 last year.

The revenue realised by sale of timber and fuel under the permit system was Rs. 12,225 against Rs. 15,696 last year. The decrease is mostly in Sukkur Division, where most of the ghats are. Certain fixed coupes were set apart for ghat working in this division. The wood being green was not in much demand. Formerly the permit holders were allowed to wander at will all over the forests, looking for deadwood and (incidentally) manufacturing it. This wasteful and pernicious system has now been stopped.

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

				1911-12.	1912-13.
				· Rs.	$\mathbf{R}_{\mathbf{s}}$ .
Sukkur	•••	•••		12,330	11,639
Nausháhro	•••			6,566	6,724
Hyderabad		<b></b>	•••	18,425	13,000
Jerruck		•••	•••	6,907	6 <b>,4</b> 84
		· Tot	al	44,228	37,847
				<b></b>	

The Hyderabad and Jerruck Divisions are responsible for most of the decrease. The graziers in these divisions are largely hillmen. As soon as the rain fell in February and March last these men went back to their hills where they could count on finding a fresh crop of grass. The issue of free grazing passes on the recommendation of the Revenue authorities accounts for the slight drop in the Sukkur Division.

*Minor Forest Produce.*—The sales of farms of forest produce and the assessment levied for lands leased out for cultivation compared with the figures of last year are :—

-	•	•		1911-12.	1912-13.
				Rs.	Rs.
' Lac	,		•••	9,717	4,600
Bábul pods			***	34,425	26,691
Grasses			•••	3,590	3,789
Fishery	•••	•••	•••	4,728	4,500
Cultivation	•••	•••	•••	21,422	20,035
	, ,	Total		73,882	59,615

The decrease is mainly due to a very bad crop of babul pods in the Jerruck Division. There is also a decrease in the lac revenue, there being a general tendency of this crop to disappear from the forests of the Hyderabad Division. Efforts are being made to increase the supply in this and in the Jerruck Division.

# (iii) Rights and Privileges.

# Northern Circle.

The value of the produce removed is estimated at Rs. 4,67,809, details being found in the statement under (c).

The people of the Dángs were induced to use the dead culms of bamboos for ash manure, tree-lopping in protected forests was consequently curtailed during the year. Privilege holders were also persuaded to use dead and suppressed poles for hutting materials in the same area and leave promising young saplings alone.

The privilege of collecting deadwood is still abused in some of the forests near the coast and B. B. & C. I. Railway. This abuse is particularly bad along creeks and near bandars where manufactured deadwood can be bartered for fish and removed in native craft. As this privilege has become destructive, steps have been taken to warn certain villages that continuance of the abuse will result in the permanent withdrawal of the privilege.

#### Central Circle.

Tabál cutting demonstrations were held by the Divisional Forest Officer, Poona, in the Lonávla range, and it was found that the people were fully acquainted with correct principles. In the Peint range in Násik, demonstrations were given by the Revenue and Forest officials. The Divisional Forest Officer remarks that there is little to show for the demonstrations as the tahál cutters work according to their inclination rather than according to rule, but that little damage to seedling growth was noticed, and that so long as the rule regarding preservation of the leading shoot is observed, as it almost universally is, there is no need for insistence on complicated rules as the supply of tahál in Peint is more than sufficient. With this last remark the Collector does not agree, though he is of opinion that villages where there is no tahál at all get on remarkably well by the simple utilization of cowdung. The Conservator has no experience of Peint and cannot comment.

Rights are few and the many privileges in the way of free grazing, deadwood, and various minor products were freely availed of, and as a rule without abuse. Reference has already been made to the necessity of temporary suspension of privileges as a punishment for non-assistance in forest protection and to the efficacy of this policy. The value of forest produce removed under privilege during the year, including grass and grazing, may be estimated at Rs. 46,973.

### Southern Circle.

There are no right-holders in this Circle. Privileges are many and they are abused, though endeavours are made to check the abuse. Hacking and looting still go on under cover of the privilege rules. It would be difficult to give accurate figures of value. The following is an estimate :--

				1912-13.			
	Produce.			Quantity.	Value,		
	Major.		(		· Rs.		
Timber Firewood	••• •••	•••	Cubic feet.	300,000 3,041,686	72,000 6,46,353		
	Minor.				÷ .		
Bamboos Grazing Minor prod	 lucts	•••• ••••	No. Value.	<b>3,</b> 000,000	15,000 3,00,387 1,80,000		

#### Sind Circle.

The extent and value of forest produce and grazing enjoyed free under privileges are-

<b>a</b> .				Ks.
Grazing	11,456 animals	***		10,226
Firewood	178,022 cubic feet	· •••	•3•	2,037

#### (iv) Free grants.

#### Northern Circle.

Free grants to the value of Rs. 5,221 compared with 5,853 in 1911-12 were given during the year, details being shown under (c).

The greatest care has to be exercised in the grant of teak. In consequence of the high prices, poor grantees have been tempted to dispose of their grants instead of building their houses and the servants of comparatively rich men have applied for such grants for the purpose of benefiting their master's buildings.

#### Central Circle.

Free grants of timber, fuel, bamboos and other material were liberally given, both as rewards for good assistance to the Department in fire protection, and in cases of necessity such as destruction of houses by fire, repairs to temples, or where the grantees had no means to pay. The value of such grants as a means of enlisting public sympathy with the work of the Department is fully recognized. The estimated price of material removed under this head amounts to Rs. 7,342.

#### Southern Circle.

Dulua		Average three	for past years.	1912-18,		
Produce.		Quantity.	Value.	Quantity.	Value.	
Major Timber Fuel	Cubic feet.	25,070 16,846	Rs. 10,388 366	21,196 24,884	Rs. 4,993 314	
	Total	4],416	10,754	46,080	5,307	
Minor. Bamboos Grazing Other minor produce	No. Value "	35,103  	359 5,462 1,200	32,172 	265 1,611 1,010	
-	Total	•••	7,021		2,886	
	Grand Total	••• ,	17,775		8,193	

The subjoined table gives the value :---

Timber.

Grants were less owing to the indiscriminate granting of free timber being more closely checked. Also inferior kinds of timber were mostly given instead of first class or reserved kinds.

#### Fuel.

Figures against this head simply represent the amount of firewood given as reward for good fire protection or to low paid Government servants.

#### Grazing.

In former years the value of free grazing was assessed at full rates instead of at 2 annas per head; hence the difference in value.

#### Sind Circle.

The extent and value of free grants of forest produce and free grazing made during the year are shown below :---

•		{		Value.			
<i>,</i> .			Extent.	1911-12.	1912-13.		
			90.477 onimula			Rs. 10,455	Rs. 6,646
Grazing Minor produce Timber and firewood	••• •••	•••	20,477 animals 104 bundles 4,621 cubic feet		•••	161 1,353	9 <b>4</b> 56
				Total	•••	11,969	7,111

In addition to the above the free grazing allowed to cattle of the forest contractors was worth Rs. 4,935.

# (c). Outturn and Sources of Forest Produce.

#### Northern Circle.

The outturn from all sources of forest produce during the year 1912-13 compared with that of the previous year was as follows :----

Outturn in	volume	and	value	from	each	source	of	Agency.	

				Ma	terial.			~		
Agency of exploitation.	Tim	per.	Fuel.		Total Wood.		Bamboos.	Grass and grazing,	Minor produce.	
	Cubic feet sol:d.	Value in Bupees,	Cubic feet solid.	Valne in Rupces.	Cubic feet solid.	Value in Rupces.	Value in Rupees.	Value in Rupces.	Value in Rupees.	
Government	283,748	37,963	124,575	5,937	409,318	43,900			369	
Parchasers	2,146,981	12,06,051	5,679,691	5,533	8,026,972	12,11,588	28,215	42,800	\$1,095	
Free Grantees	36,206	5,103	800	8	36,506	5,111	108		2	
Privilege-holders	120,000	1\$,400	12,370,500	1,09,833	12,490,560	1,24,233	10,416	2,71,528	61,632	
Total, 1912-13	2,586,930	12,63,517	18,375,428	1,21,313	20,962,356	13,84,830	38,739	3,14,418	91,098	
Total, 1911-12	2,744,833	10,79,834	10,695,653	1,24,426	18,440,436	12,04,260	31,316	3,77,348	1,00,496	

The number of cattle for which grazing was provided is estimated at :--

#### Central Circle.

The outturn, from all sources, of forest produce is compared for two years: in the following statement :---

,								· ·	Ma	torials.						
				Timber.			Fuel.		То	tal Wood	•	В	amboos,		Grazing.	Manor prod ne
Agency of	exploitat	ion.	Cubio	Value in	Rupees.	Cubic	Value in	Rupees,		Value in	Rupees.	·	Value in	Ropees,	 	• •
•* • •	* 		feet solid.	Total.	Por 100 cubic feet.	feet solid.	Total.	Per 100 oubic feet.	Cubic feet solid.	Total.	Per 100 cubic feat.	Number.	Total.	Per 100.	Value in Ruppes,	Value Rupoc
lovernment		. 1911-12		116	6.8	170,103	1,146	•68	171,808	1,262	•007		·	[ 	1.23,010	1,10,5
,	, U	1912-13	. 26,577	916	34	341,912	12,582	3.7	368,489	13,498	8.7	450	16	3.6	2,46,280	19,6
urchasers			2,027,660		18 5	2,068,696	85,385	4.1	4,094,356	3 59,754	8.7	1,022,820	13,196	1.3	3,29,133	39,3
	-{	1912-13	2,578,447	2,32,183	9 004	2,145,034	77,968	83	4,723,481	3,10,149	6•6 ·	1,201,246	14,230	1.3	3,61,116	30,i
ree grantees	5	-1911-12	-41,150	1,270	3.08	- 23,895	3,678	15'8	65.045	4,946	7.6	20,483	876	1.8		
TOO BIRTHECO	···{	191 <b>2-13</b>	61,425	6,682	10.8	4,140	114	2*8	65,586	6,796	10.4	19,583	231	1.8		
rivilege-holdera	· f	1911-12	· •••		119	408,639	37,613	9-2	· 408,689	37,613	9*2				33,047	1
LIATIORS-TIOIDELS	{ {	1912-18	1,787	90	5`04	297,220	11,770	4.0	299,007	11.860	4.	3,200	2	1.	<b>31,</b> 132	37
Tota	i{	-	2,070,513	2,75,755	18.5	2,669,383	1,27,820	4.7	4,739,896	4,03,575	8.2	1,042,803	13,572	1.3	<b>8,03,</b> 780	2,82,
/	j	1912-13	2,668,236	2,39,871	9. ,	2,738,306	1,02.432	3'7	5,458,542	3,42,303	6.3	1,224,479	14,500	1.3	<b>6,8</b> 8,537	60,:

### Southern Circle-

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	• 1		<u>.</u>	<del></del>					<u> </u>			
		Tim	iber.	Fu	rel.	Total	Wood.	Bam	b008.		Minor	
Agency.		Cubic feet.	Value.	Cubic fect.	Value.	Cubic feet.	Value.	No.	Value.	wood Value,	forest produce Value.	Grazing Value.
			Rs.		Rs.		Rs,	]	Rs.	Re.	Rs.	Rs.
Government	•••	1,661,724	10,94,628	3,595,570	2,28,919	5,257,294	13,23,547			49,737		28,448
Purchasers	•••	660,693	2,07,320	4,526,496	72,352	5,187,189	2,70,672	4,505,659	48,447	241	65,832	74,685
Free Grantees	•••	21,196	4,993	24,834	314	46,080	5,307	82,172	265	•••	1,010	1,611
Privilege-holders	•••	300,000	72,000	3,041,688	6,40,858	3,341, <b>6</b> 96	7,18,353	8,000,000	15,000		1,60,000	8,00,987
Total of 1912-13	•••	2,643,613	13,78,941	111,83,636	9147,938	13,833,249	23,26,879	7,537,831	63,712	49,978	2,46,342	4,05,131
Total of 1911-12	<b>***</b>	1,682,642	11,11,769	9,226,847	9,59,038	10,909,489	20,70,807	7,200,042	67,532	82,074	2,41,647	3,87,58Ì

# The total outturn of the year is summarized in the following table :---

Sind Circle.

The outturn from all sources of forest produce is summarized in the following table :---

<b>,</b>		Material removed.								
Agency by which material removed.	Tin	ıbe <b>r.</b>	Fo	e <b>l.</b>	Total	Wood.	Minor produce value.	Grazing value.	Total.	
	C. ft.	Rs.	C. ft.	Rs.	C. ft.	Rs.	Rs.	Rs.	Rs.	
Gevernment	4.004	308	322,192	8,401	326,196	8,709	917		9,626	
Purchasers	389,085	87,713	19,295,316	246,547	19,684,401	8,34,260	36,008	37,847	4,08,115	
· Free Grantees	4,216	446	405	10	4,621	456	9	11,581	12,048	
Privilege-holders		1	178,022	2,037	178,022	2,037	•••	10,226	12,263	
Total	397,805	88,467	19,795,935	2,56,995	20,193,240	3,45,462	36,284	59,654	4,42,050	

The quantity and value of material removed by the Public Works Department from the areas temporarily alienated to that Department along bunds and canal banks were as follows :---

•			Quantity.	Value.
· · · · · · · ·	Timber Branch wood Earth	 No Bundles Cubic feet. Total	_ 8,330	Rs. 786 521 2,546 3,853

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# CHAPTER III.

# FINANCIAL RESULTS.

# Northern Circle.

	Head.		Average of five preceding years.	1911-12.	1912-13.
Rovenue	\ 	••• •••	Rs. 12,08,157	Rs. 14,61,839	Rs. 15,32,472
Expenditure •	• • •	{ <sup>A</sup> B	2,77,447 2,99,874	5,28,22 <b>2</b> 3,54,880	3,32,077 3,78,801
	Totz	al, Expenditure	5,77,321	8,83,102	7,10,878
		Surplus	6,30,836	5,78,737	8,21,594

The financial results of the year in comparison with those of 1911-12 and with the average of the preceding five years were as follows :---

N.B.-The following figures of Famine Fodder Operations are included :---

• -	-			•
			• •	- <b>Rs.</b>
Revenue	-	• • •		1,46,105 1,14,069
T3	5 A	***	***	1,14,069
Expenditure	••• { B			6,774

Deducting famine fodder figures the revenue and expenditure of the two years contrast as follows :---

			1911-12.	1912-13.
,			Rs.	Rs.
Revenue		•••	11,99,227	13,86,367*
Expenditure	•••	•••	5,40,318	5,90,035

The Revenue and Expenditure of 1912-13 includes the following figures on account of lands *not* managed by the Forest Department :---

				Ks.	
Revenue Expenditure	•••	•••	*** ***	2,55,314 2,181	

• Bs. 25,585 belonging to the Bombay Municipality forest were wrongly credited to South Thana and will be deducted from Forest Revenue in 1913-14.

The gross revenue has improved with the conditions of the year. The reasons for increase are improvement in the price of teak timber especially in Gujarát, rise in the price of charcoal in Bombay, collection of arrears of revenue in Surat, rise in the price of coupes in Bulsar, and in Kolaba confining sale of special coupes for cheap firewood to localities where there is a genuine demand. Kolába and Panch Maháls Divisions (the latter, however, through dead wood sales) show a net surplus revenue during the year which is unusual.

The increase in expenditure is due to the large number of guards' posts and roads constructed during the year, to further promotions under the reorganization of establishment and in Surat to the purchase of a road train and plant necessary for a saw mill.

The following statement compares the receipts and charges in details of budget heads for the years 1911-12 and 1912-13 :--

	Budget her	uđ.	F	1911-12.	1912-13.	Difference.
Receipts			-	· Rs.	Rs.	Rs.
I N				2,97,017	1,86,464	-1,10,553
II	• • •	44.0		11,28,730	13,13,787	+1,85,057
III				1,568	1,315	- 253
IV		•••		1,383	1,380	- 3
V	•••	•••		33,141	29,526	- 4,615
		Total, Receipts	10.00	14,61,839	15,82,472	+ 70,633
Expenditure A-	•	×	•			
Ι		•••		3,06,426	1,66,647	-1,39,779
$\mathbf{II}$ $\cdot$ .	***	***		29,938	30,015	+ 77
III	•••	•••	•••	64	25	- 39
V		•••		28,820	25,201	- 3,619
VI · .			*	53,724	2,367	- 51,357
VII	***	*		14,065	45,249	+ 31,184
VIII				54,017	52,96 <b>3</b>	<b>1</b> ,054
IX	***	•••	••••	41,169	9,610	— 31, <b>5</b> 59
		Total A	•••	5,28,223	3,32,077	-1,96,146
Expenditure B—			, ,	······································	· · · · · · · · · · · · · · · · · · ·	<del></del>
Ī		•••		3,01,421	3,12,886	+ 11,465
II		•••		33,823	47,735	+ 13,912
- III		•••		19,636	18,180	— 1,456
<i>•</i>		Total	В.	3,54,880	3,78,801	+ 23,921
-	To	tal, Expenditure		8,83,103	7,10,878	<b>—1</b> ,72,228

	Part	iculars.				Receipts.	Percentage.
Major produce Minor produce		••••	•••	· · · ·	•••	Rs. 12,55,490 2,76,982	82• 18·
, · · ·	<b>、</b>	-		Total	•••	15,32,472	100

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t

Part		Charges.	Percentag				
Extension and constitution Improvement Exploitation	···· ···	•••			Rs. 7,338 1,00,484 2,24,255		2. 30 68.
•			Total	•••	3,32,077	1	υ0·

/	Part	Charges.	· Percentage.			
Administration Executive Protective	••••	•••	•••	•••• •••	Rs. 41,101 1,42,062 1,95,637	11- 38- 51-
• •	•		ľ	otal	3,78,800	· 100·

The extent of outstandings and increase or deficit of stock are shown in Forms 22, 23 and 26.

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# Central Circle.

The financial results of the year, as compared with those of 1911-12 and with the average of the preceding five years, were as follows :----

			Average of five preceding years.	1911-12.	<b>1</b> 912 <b>-13</b> .
Revenue Expenditure		•••	Rs. 7,54,860 1,61,808 3,88,690	Rs. 10,49,700 3,89,357 4,19,110	2,60,781
	Total, Expenditure	B'8 4	5,50,498	7,58,467	6,88,603
	Surplus		2,04,362	2,91,233	8,82,725

# Including Famine Fodder Operations.

Receipts and expenditure in connection with famine fodder operations credited and debited respectively were, receipts 2,46,334, expenditure 1,14,877, and excluding these figures the results of two years work out as follows:—

	•		.	1911-12.	1912-13.	Difference.
Revenue Expenditure	•••	ςΑ			Rs. 8,24,994 1,45,904 4,27,822	Rs. 1,01,650 25,129 + 8,712
	. Total	, Expenditure	•••	5,90,143	5,73,726	— 16,417
ı.		Surplus	•••	3,36,501	2,51,268	- 85,233

Excluding Famine Fodder Operations.

The decrease of Rs. 1,01,650 in gross receipts and of Rs. 85,233 in the net surplus is at first sight unsatisfactory, but is due to a great extent to abnormal and special circumstances in four divisions, viz., North and West Khandesh and North and South Nasik. The remaining three divisions, Poona, East Khándesh and Sátára, showed better results than in the previous year. In Poona gross receipts increased by Rs. 8,929, and the surplus by Rs. 2512, consequent on better prices realized for all sorts of forest produce in general, and in particular to keen demand for grass and grazing owing to the fodder famine of 1911-12. The financial position of this division would be even more favourable, but for no charge being made to the Military Department for the valuable grass areas handed over to them. In East Khandesh gross receipts increased by Rs. 31,086, and the surplus by Rs. 33,035, consequent on extraordinary demand for timber, fuel and fodder. In Sátára though the Division works at a loss, still gross receipts increased by Rs. 17,081, and the deficit, in spite of a slight rise in expenditure, was reduced to Rs. 3,898 from Rs. 17,131. All kinds of produce realized better prices, and the deficit may, in future years, confidently be expected to become a surplus judging by the ever increasing demand for grass, and still more by the success which has followed on a policy of improvement in communications, and which has resulted, in the case of the Vang Valley Road, in opening up hitherto unworkable forests, and in a very material increase in revenue. Further schemes in this direction are in progress, notably a road up the Koina Valley, and the utilization of the Koina River to transport fuel to Karád where it will be caught by a boom.

Turning to the four divisions in which results were not satisfactory, the following explanations are given. In all of them the mhowra crop was a failure, and whereas in 1911-12 receipts exceeded Rs. 73,000 in the year under report they were but slightly over Rs. 12,000.

Then in South Násik the system of disposing of the hirda crop was changed. Formerly the whole yield of the forests was collected departmentally and sold, and receipts were correspondingly high. Now only a percentage of the crop is taken from the villagers and sold. This change entailed a diminution in gross receipts (though not in net surplus) from Rs. 45,600 in 1911-12 to Rs. 6,230 in 1912-13. It must of course be added that, both in the case of mhowra and of hirda, the diminution in receipts was accompanied by a diminution in expenditure.

In West Khándesh the decrease both in gross receipts and in net surplus of approximately Rs. 10,000 were due to the mhowra crop.

In North Khandesh gross receipts decreased by Rs. 49,399 and net surplus by Rs. 55,361, the failure of the mhowra crop and less demand for grass and grazing dividing the amount equally.

In North Násik gross receipts were less by Rs. 9,973 and net surplus by Rs. 14,996. The fall was due to lower grazing collections, to no revenue being received as was the case in 1911-12, either from the sale of disforested lands, or from sundry credits from the old Ahmednagar-Sholápur Division.

In South Násik gross receipts decreased by Rs. 95,073, and net surplus by Rs. 61,562. Mhowra and hirda as referred to above were largely responsible, but there was also a heavy fall in coupe revenue consequent on the unfavourable season, to heavier standard reservation in coupes, to low prices received for royalty teak, and to depression in trade generally.

Under Expenditure.—A—Conservancy and Works—the net decrease of Rs. 25,129 was due to the change in the system of hirda collection, and to small payments for purchase of mhowra seed; and the decrease would have been greater but for expenditure under Communications and Buildings having risen by nearly Rs. 23,000, no curtailment of work in this direction having been ordered by Government on account of shortage of funds, as was the case in 1911-12. Under B—Establishments, expenditure rose by Rs. 8,712, consequent mainly on all Foresters on Rs. 15 and upwards being allowed travelling allowance.

Taking a general survey of the results of the year, there is no reason to suppose that the fall in the surplus is other than purely temporary. On the contrary it may confidentially be expected that under normal conditions demand for forest produce will improve, and that the forests of the Circle will show a steady and increasing profit.

The proportion of net to gross revenue, excluding famine fodder figures, amounts to 30.4 per cent.

The forest revenue and expenditure are further classified as follows :---

· · · ·			, -		Receipts.	Percentage
Major produce Minor produce	•••	•••	•••		Rs. 3,23,662 5,01,332	39·2 60·8
			Total		8,24,994	100
- <u></u> .		II]	Expenditure-	-A.		
	·····	:			Charges.	Percentage.
Extension and Con	stitution	•••			Rs. 4,281	

Tetal

1,07,381

1,45,904

34,242

73.6

23.5

100

I.—REVENUE.

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Improvement

Exploitation

		· •	EXPENI	DITUREI	3.	
					Charges.	Percentage.
Administration Executive Protective	•••	· · · · · · · · · · · · · · · · · · ·	••••		1,63,173	12·9 38·2 48·9
				Total .	4,27,822	100*

# Southern Circle.

Form No. 24 prepared by the Accountant General shows the details of Revenue and Expenditure of the year under report. The following statement compares the figures of the year with those of the previous year and average of the five years preceding it :---

	Head.			Average of five preceding years.	1911-12.	,1912-13.
Revenue		, 	•••	Rs. 14,26,770	Rs. 15,73,855	Rs. 19,08,195
		(A	•••	5,61,701	6,78,832	6,34,101
Expenditure	•••	` <b></b> {B	***	3,08,269	3,68,614	3,76,445
	Total,	Expenditure	•••	8,69,970	10,47,446	10,10,546
· .		Surplus		5,56,800	5,26,409	8,97,649

From the above it will be seen that there was an increase in the receipts and surplus as compared with the corresponding figures of the previous and the average of five preceding years, while the charges were less than those of the previous year. In fact the gross revenue is by far the largest ever recorded. The percentage of net to gross revenue also increased from 33.4 to 47 which is partly due to the decrease in expenditure.

The following statement compares the revenue and expenditure of the year in details of budget heads with those of 1911-12:---

Bn	dget head.		Amor	ınt.	<b>D ( m</b>
			1911-12.	1912-13.	Difference.
Receipts 11 11 111 1V V	••• •••	•••	Rs. 11,35,296 4,12,828 783 9 24,939	Rs. 14,01,798 4,68,136 674 14 37,573	Rs. + 2,66,502 + 55,308 - 109 + 5 + 12,634
	Total, Receipts		<b>15,7</b> 3,85 <b>5</b>	19,08,195	+ 3,34,340
Expenditure A ] II JII VI VII VIII <sub>1</sub> IX		••••	5,44,577 1,797 151 12,012 54,194 49,530 16,571	4,75,692 2,590 91 12,180 67,158 55,599 20,841	$ \begin{array}{r} - & 68,885 \\ + & 793 \\ \hline - & 60 \\ + & 118 \\ + & 12,964 \\ + & 6,069 \\ + & 4,270 \end{array} $
	Total A.	••••	6,78,832	6,34,101	- 44,731
Expenditure B 1 I II II	[ ••• [	•••	3,19,060 37,744 11,810	3,16,855 47,260 12,830	
Ĩ	Total B.	•••	3,68,614	3,76,445	+ 7,831
· · · · · · · · · · · · · · · · · · ·	Total, Expenditure	•••	10,47,446	10,10,546	- 36,900

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With the depôts well stocked and prices ruling high, the revenue for the year was exceptionally large, this too in spite of the partial failure to supply the Railway with the stipulated number of sleepers and quantity of fuel.

The quantity of timber brought to Tavargatti Depôt was about half that of the previous year; this combined with fewer sleepers and less fuel supplied to the Railway caused a decrease of about Rs. 69,000 in expenditure under A I. Two years' (1911-12 and 1912-13) contributions to Kánara Local Board for repairs of roads, extension of *Casuarina* plantations on the coast, grain compensation and better rewards for detecting offences to low-paid subordinates and permanent travelling allowance to Round Foresters swelled to a certain extent the expenditure under the respective heads. The decrease under "Salaries" is due to the transfer of a Provincial Officer for duty under the Revenue Department in Kánara.

The percentages of value of major and minor produce to the total revenue of the year were :---

	Part	iculars.			Receipts.	Percentages.
Major produce Minor produce	•••	•••	***	•••	Rs. 16,53,022 2,55,173	87 13
			Tot	al	19,08,195	100

The following statement exhibits the percentages of expenditure on Constitution, Works, Improvement and Establishment to the total expenditure :---

•	Partie		Charges.	Percentages.		
					Rs.	
Extension and Co	Institution	•••	•••	•••	4,893	1
Improvement	* ***		•••	•••	1,38,705	22
Exploitation	• • •	•••	•••	•••	4,90,503	77
-			Total A	•••	6,34,101	100
	I	3 <b>.</b> ′				
Administration			•••	•••	51,365	14
Executive	•••	•••			1,55,177	41
Protective	***	•••	• • •	•••	1,69,903	45
			Total B		3,76,445	100

Outstandings of revenue amounting to Rs. 1,104-7-11 were written off under the orders of the Conservator.

The outstandings on account of revenue at the end of the year amounted to Rs. 4,74,258-10-6, more than double that of 1911-12, due to large sales at Tawargatti and all other timber depôts in the Circle. The outstandings due by contractors and disbursers stood at Rs. 1,65,077-15-7 against Rs. 1,66,831-7-11 at the end of the preceding year.

The estimated value of timber and other produce in dopôts fell from Rs. 7,97,223 to Rs. 4,84,578, chiefly in timber, though there is an increase in quantity. The reason is that all the stock at the Tawargatti Depôt in Kánara Northern Division was sold to the last stick and very little timber could be brought in to replace it owing to the failure of the road train, and the logs brought to the road-side depôts, 8 to 15 miles away from Tawargatti, have been included in the stock in hand—but not their value.

The value of live and dead stock shows a net difference of Rs. 33,553 in favour of the year, being value of new buildings, etc.

#### Sind Circle.

	Head.	. }	Average of past 5 years.	1911-32.	1912-13.
Revenue			Rs. 4,17,240	Rs. 4,07,9 <b>37</b>	<u>R</u> s. 4,55,699
Expenditur Do.			5 <b>4,</b> 844 1,3 <b>3</b> ,042	33,267 1,69,183	42,140 1,72,574
20,		l, Expenditure	1,87,886	2,02,450	2,14,714
Surplus		•••	2,29,354	2,05,487	2,40,985

The reasons for the increase of Rs. 47,762 in gross revenue are :---

(a) Better prices obtained for coupes in all divisions except Naushahro. due to a good demand for fuel and keen competition.

- (b) Sale of burnt areas in the Sukkur and Naushahro Divisions.
- (c) Sale of revenue jungles in the Hyderabad Division.
- (d) Sale of fuel obtained from thinnings in the Jerruck Division.

The increase of Rs. 8,873 under A.—Conservancy and Works is due to extensive irrigation works undertaken during the year under report. The works had been postponed from the previous year by order of Government, to effect economy. The amount is Rs. 12,704 below the five years' average.

The increase of Rs. 3,391 under B-Establishment is due to-

- (a) Increased pay to officers of the Imperial and Provincial Services under the time-scale.
- (b) Local allowance of Rs. 50 to Mr. Irani, Divisional Forest Officer, Sukkur, from September 1911.
- (c) Payment of daily allowance to clerks on tour instead of permanent travelling allowance from December 1911.
- (d) Grain compensation allowance to subordinates.

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

Part	iculars.	Receipts.	Percentage.					
Major produce Minor produce	•••	•••	•••	••	1 19 944	75 25		
				Total .	4,55,699	100		

#### I.-REVENUE.

#### II.-EXPENDITURE A.

	Partic	ulars.				Charges.	` Percentage.
Extension and Co Improvement Exploitation	onstitution	•••	•••		•••	Rs. 30,708 11,432	
		• <b>! •</b>	· •••	Total	•••	42,140	<u>27</u> 100

• • • • •	Particulars.				Charges.	Percentage.
Administration Executive Protective		•••	••••	•••	Rs. 30,887 64,057 77,630	12 37 51
			т	otal	1,72,574	100

III.-EXPENDITURE B.

The revenue outstanding on 30th June 1913 was Rs. 1,47,986 against Rs. 1,43,734 on the same date last year. This represents instalments payable by coupe contractors and others, which are not recoverable until after the close of the year. The debts are good ones.

Bhai Jethmal Wadhumal still owes Rs. 6,500 for the lac contract of the Jerruck Division for 1908-09. The Collector of Hyderabad writes that his surety, Lekhraj Khimandas, has appealed to the Judicial Commissioner of Sind. No further steps can be taken till the appeal is decided.

A sum of Rs. 3,038-4-0 is due from Chandiram Karamsing for a coupe contract of 1909-10 in the Jerruck Division. The Collector of Hyderabad writes that proceedings for the recovery of the money have been suspended pending the disposal of the appeal filed by Chandiram in the Court of the Judicial Commissioner of Sind.

# CHAPTER IV.

### ADMINISTRATION.

#### Northern Circle.

The administration of the Northern Circle was carried on by the following Officers during the year :----

1st July 1912 to 27th January 1913	Mr. W. F. D. Fisher.
28th January 1913 to 1 <sup>2</sup> th February 1913	" G. E. Marjoribanks.
14th February 1913 to 30th June 1913	" G. R. Duxbury.

st divisions were held by the following Officers :--ጥ

The Forest divis	long were neid by the following officers.
Ponch Maháls	By Mr. D. R. S. Bourke, throughout the year.
Surat	By Mr. G. E. Marjoribanks until the 3rd May 1913 when Mr. Bourke took temporary charge to the end of the forest
North Thána	year. By Mr. C. E. L. Gilbert, from 1st July 1912 to 15th August 1913. By Mr. J. H. Irani, from 16th August 1912 to 30th June 1913.
Central Thána South Thána	By Mr. R. W. Inder, throughout the year. By Mr. A. N. Master, throughout the year.
Kolába	By Mr. V. D. P. Rebeiro, throughout the year.

Mr. J. B. Brooks joined the Imperial Forest Service during the year under report and was posted under the Divisional Forest Officers of Surat and Central Thana for successive periods of three months each.

Mr. E. O. Sampson was appointed a Probationary Extra Assistant Conservator in January 1913.

Mr. R. H. Madan, Extra Deputy Conservator of Forests, retired in May 1913 after a service of 30 years, and accepted the appointment of Conservator of Forests, Baroda State.

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Among Rangers Messrs. S. H. Vaze and G. D. Ghaisas and among Foresters Messrs. G. B. Nandlaskar and Ganesh Govind retired during the year.

The work of the clerical establishment continues good except in Central Thána where it is reported not entirely satisfactory in part due to changes, and in part to lack of co-operation between the clerks, and in South Thána where service is unpopular. Matters have, however, lately improved in both offices.

Among the protective staff Mr. G. R. Patkar has earned praise for his all-round good work in North Thána, and Mr. K. V. Mankikar for his road work in Surat. Messrs. V. G. Bhalerao, H. B. Vaidya, A. S. Nachan, Manumia Sarfumia, Sajisha Husseinsha, C. K. Amin and R. S. Deo are also mentioned for good work by their respective Divisional Forest Officers.

The following table shows casualties during the year :---

Total Staff.	D ths.	<b>B</b> esignations.	Dismissals.	Retirements.	Suspensions.
1,091	15	24	11	8	38

The new quinine treatments supplied in Surat Dángs were reported both popular and effective.

Fines were 248 and degradations 19.

Under existing circumstances punishments are bound to be fairly severe. The average beat guard gets less than a labourer in Bombay and cares little for punishment. A literate guard in Thána and Kolába objects to work as a beat guard at all and becomes a round guard before he is really experienced or old enough to be careful.

In places recruitment is most difficult, and it is suggested that for unhealthy parts or where labour is in great demand a deputation allowance should be given.

In the Tánsa catchment area Aghai and Nándgaon rounds out of a total staff of 11, 2 round guards died during the year, 2 beat guards left without resigning, one resigned and 4 went on leave suffering from malarial fever: this is a striking case in point.

The relations between the Revenue and Forest Departments were satisfactory in all divisions. In the Kolába Division, the Mámlatdárs of Mahád and Karjat and the Mahálkari of Nágothna are mentioned for their valuable assistance in forest protection.

All divisional offices were inspected by the writer of the report except Kolába which Mr. Fisher visited early in the working season. Where possible a range office was inspected in every division.

Twelve students were sent to the Thána Forest School during the year, of whom 10 passed, 1 failed in the final examination and the other was absent ill. A revised syllabus was drawn up in May 1913 to be taught at the forthcoming class. Mr. K. B. Gokhale was the Instructor during the monsoon months of 1912.

### Central Circle.

The Circle was in charge of Mr. G. P. Millett from 1st July to 18th April 1913 and of Mr. L. Napier thereafter to the end of the year.

Details of the charges of divisions held by various officers are no longer required to be given, but Poona Working Plans and North Násik alone obtained continuity of administration throughout the year under their respective officers, while in all other divisions, transfers or the taking of leave, entailed in three cases two changes, and in two cases three changes. On the work of Divisional and Sub-Divisional officers the Conservator, having been transferred to the Circle towards the close of the year, will only comment to the extent of saying that both his predecessor and himself had every reason to appreciate the efforts made. The success attained in fire protection speaks for itself, as does also the fact that administration was everywhere carried out without friction, no easy matter in a year of scarcity when the forests are called upon to provide for so many more than the ordinary outside interests. Famine Fodder Operations too add much to a Divisional Forest Officer's labours; they form the subject of a special report and in which the services of various officers will be detailed, but mention must be made here of the very satisfactory work done by Mr. Gilbert in South Násik.

The upper protective establishment on the whole worked well, though various Range Officers and Foresters had to be reduced for unsatisfactory conduct. The lower protective establishment still leaves much to be desired, and no appreciable improvement is found in the class of men that come forward for the recruitment of the Beat Guard grades. It is true that since the reorganization of a few years back, the pay is a nearer approach to a living wage than it was, but the fact remains that literate men are not attracted by the life or prospects of a Beat Guard, and the end is, not only is the supply inadequate of men suitable for advancement to the grade of Round Forester or Guard in which literacy is essential, but also stagnation in promotion is so great amongst the illiterate men, that incentives to good work are almost entirely wanting. How the difficulty is to be got over is not clear; the Forester's class is of use in training the better men amongst the Beat Guards for eventual advancement to Round Forester, but with literate men unwilling to come forward to serve in the Beat Guards grades, even for the limited time necessary for them to acquire a practical knowledge of forest work and to be able to assimilate the teaching given at the class, the supply does not keep pace with the demand. The casualties in the protective staff were as follows: dismissals showing an improve-ment on last year, deaths 16, retirements 21, dismissals 25, resignations 19. A further point which tends to keep men from entering the lower grades of the Forest Department is the pension question, for no man of less than Rs. 15 can hope for more than a pension of Rs. 4 after 30 years' service. With the ever increasing work that is demanded, the inducement is not considered sufficiently attractive.

Of the clerical etablishment, Mr. T. G. Mahajan, the Conservator's Head Clerk, went on leave preparatory to retirement after 35 years' excellent and faithful service to Government. Divisional clerks are everywhere reported to have given satisfaction. Recruitment, however, in this branch also is not on a sound footing; clerical posts consist of firstly those in the Circle and Divisional offices, a limited number but with prospects of promotion by yearly increment, and secondly of a very large number of Range office clerks on fixed pay of Rs. 20, and no hope of promotion to a Divisional office for a great number of years. Either a man has to be appointed direct to the former class, and the inclination to do so is great when a really suitable candidate comes forward, or else he has to be appointed as a Range clerk. The prospects of the latter alternative entirely fail to attract good men, and with some reason, while the former alternative makes the prospects of the Range clerks even worse than it naturally is. The Department thus falls between two stools.

Owing to pressure of Famine Fodder Operations, and to no officers' services being available for instruction, the Forester's class was not held during the year.

#### Southern Circle.

Mr. L. Napier held charge of the Circle from 23rd October 1912 to 16th April 1913. Mr. W. E. Copleston officiated from 20th to 22nd October 1912 and from 17th to 20th April 1913. Mr. T. R. Bell was in charge for the rest of the year.

The changes which occurred during the year among gazetted officers were as follows :---

Imperial Officers.—Mr. T. R. Bell was on combined leave from 20th October 1912 to 20th April 1913. Messrs. A. G. Edie and W. A. Miller went home on combined leave respectively from 2nd and 4th May 1913. Mr. G. S. Butterworth was on special leave on private affairs from 31st August to 4th October 1912.

Provincial Officers.—Mr. S. B. Bendigeri, on return from combined leave, was posted to Kánara Southern Sub-division with effect from 1st June 1913. Mr. R. R. Hattangadi was on two months and 15 days' privilege leave from 15th September 1912. Mr. G. S. Dangi was absorbed in the permanent cadre of Extra Assistant Conservator with effect from 12th June 1913. Mr. R. A. Shirali, Ranger, 1st Grade, was made probationary Extra Assistant Conservator from 24th December 1912 and transferred to the Central Circle.

Mr. Basalkar, the student, deputed for training as Ranger, 1911-13, returned from Dehra Dun with a Lower Standard Certificate. Three students Messrs. Joshi, Arjani and Ghatgalkar selected for the 1913-15 course are under training.

Of the 11 subordinates who were sent up for training at the Belgaum Vernacular Forest School in 1912, three passed with credit and 7 ordinarily. The 11th man failed in Forest Engineering but was considered as passed as he made over 50 per cent. of marks on the whole. There was one private student from a Native State and he passed the course with credit. The class was as usual held by Mr. Hattangadi, Sub-Divisional Forest Officer, Belgaum, in addition to his own duties and the students were given as satisfactory a course of instruction as circumstances permitted. The lowest and highest marks scored were 59 and 82 per cent., respectively.

All the Divisional offices were inspected during the year and no serious discrepancies of any kind were brought to light.

During the year bad climate allowance to subordinates serving in malarious places of Kánara was sanctioned in Government Resolution, Financial Department, No. 443, dated 17th January 1913.

The health of the establishment was good, two Foresters, eleven guards, two clerks and one peon = 16 men died during the year.

Other casualties of the year were as follows :---

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Retired.-1 Ranger, 3 Foresters, 6 guards, 1 clerk and 1 peon.

Resigned.-1 Forester, 21 guards and 2 peons.

The roll of punishments was rather heavy during the year. This was necessitated by the conduct of subordinates especially of those below the grade of Rangers, which was far from satisfactory. Two Foresters, 18 guards and 1 clerk were dismissed. One Forester, 38 guards, 1 clerk and 1 peon were discharged. One Ranger, 6 Foresters and 19 guards were degraded. One Forester and 5 guards were prosecuted. Nineteen men were suspended and 300 fined.

The relations between the Revenue and Forest officials continued to be as satisfactory as ever.

Services.-All Gazetted Officers worked well during the year. The Conservator was well satisfied.

The subordinate protective staff was fairly satisfactory. We are still suffering from too many of the old type of men but there is, I think, a slow but general improvement in quality. There is some difficulty in getting the proper type for Forester and many guards who are really not fit for these appointments have to be put in.

The clerical staff leave, generally, a good deal to be desired. There is a great want of system in their methods which diminishes their value. Efforts are being made, however, to surmount this fault. The men worked well on the whole.

# Sind Circle.

Charge of the Circle was held by Mr. E. G. Oliver throughout the year.

The divisions and sub-divisions were held by the following officers :----

Jerruck	•••	Mr. H. L. Newman, whole year.
Hyde <b>ra</b> bad	•••	Dr. N. Gustasp, whole year.
Nausháh <b>r</b> o	•••	••• Mr. M. D. Jagtiani, whole year.
Sukkur	•••	Mr. J. H. Irani, July 1st to August 9th, 1912. Mr. D. J. Navani, August 10th, 1912 to June 9th, 1913. Mr. A. C. Robinson, June 10th, 1913 to June 30th, 1913.
Sukkur Sub-de	vision	Mr. P. U. Malkani, whole year.
Working Plan	es Division	Mr. D. J. Navani, July 1st to August 5th, 1912. Mr. E. G. Oliver, August 6th, 1912 to June 10th, 1913, in addition to his own duties. Mr. D. J. Navani from 11th June to 30th June 1913.

Mr. J. H. Irani, Extra Assistant Conservator of Forests, was transferred to the Northern Circle during the year.

Mr. A. C. Robinson, Extra Deputy Conservator of Forests, joined the Circle on return from furlough during the year.

Every division was visited and all the Divisional Forest Offices were examined by the Deputy Conservator during the year. They were all in a satisfactory state and no irregularities of any importance were discovered.

The following Range Offices were also examined by the Deputy Conservator :---

Range.		Division.			
Sehwan			)		
Radhan	•• <i>•</i>	•••	}Nausháhro.		
Garhi Yásin	•••	•••	) s		
Abad	•••	***	} Sukkur.		
Ghotki Sukkur	··· <u>·</u>	***	••• > Sukkur.		
	··· .	***	···· <b>)</b> (		

Stipendiary student, S. C. Advani, completed his training at Dehra Dun on 31st March 1913 and reported himself for duty on 6th April 1913. He obtained the Lower Standard Certificate and was appointed Forester on Rs. 35 plus Rs. 15 personal allowance (*vide* Government Resolution No. 7777, dated 21st August 1913, Revenue Department).

One Government stipendiary student was sent to Dehra Dun for training as a Ranger.

The work of the Range Forest Officers, with few exceptions, is generally favourably reported on by the Divisional Forest Officers.

Dismissals	•••				19 or	4.9 per cent.	
Reductions	•••,		***	•••	19 or	4·9 do.	
Fines	•••,	***	***	•••	91 or 2	23·5 do.	

It is impossible to get a good class of men for Forest Guards in Sind. For one thing education is in a very backward state. Only 11 Sub-Rangers out of a total of 47 in the Circle can read and write. (The Sub-Ranger of Sind is the Round Guard of the Presidency). Such men can earn more by working as coolies in the Public Works Department, where the rates of pay are high. Educated men will arrive in time no doubt, but then the present pay will not

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attract them. It does not offer much attraction to the uneducated man now. Meantime, as the required men are not available the Department must just manage with the materials at hand. Really energetic and honest Range Forest Officers can to a certain extent make up for the shortcomings of the men under them. Such Range Forest Officers therefore deserve every encouragement.

The work of all the Divisional Forest Officers continued to be satisfactory during the year, and some real progress was made towards increased efficiency.

As regards the clerical establishment the Deputy Conservator has to acknowledge good and loyal work from his own office under the conduct of Mr. Lachiram Suratsing, the Head Clerk. The Divisional Forest Officers as a rule can say the same for their own offices. There were one or two cases during the year which called for reprimands. The quality of the personnel calls for improvement. This is a matter of time and will be brought about by the gradual retirement of the older men whose education is necessarily inferior, and the recruitment of men who have a modern education and a command of English and vernacular.

### CHAPTER V.

### GENERAL REMARKS.

#### Northern Circle

Manganese Mining.—This was carried on as usual in the Bamankuva Mine and in the small portion of forest in the Shivrájpur Mine in the Panch Maháls. Rs. 3,645 were paid to the Department in royalties, dead rent, and surface rent.

Tahal Demonstrations.—These were given at almost every camp by the Divisional Forest Officer, North Thána, who explained mistakes as did his subordinates. In Central Thána also Rangers gave demonstrations in co-operation with Mámlatdárs; a stricter ruling for the preservation of ground shoots is required in Mokháda and parts of Khardi where clearance of the young injaili crop by charcoal merchants have denuded the málki lands. The Divisional Forest Officer personally did much instruction in the sub-ghát villages. In South Thána, forest subordinates gave some demonstrations, while in Kolába, especially in the northern tálukas, both the Revenue and Forest Officers were particularly energetic in this respect. Proposals for the adaptation of the Thána Woodland Code to the Kolába District with certain modifications were sent up to Government by the Collector of Kolába during the year after meeting the Conservator and Divisional Forest Officer in conference.

In March 1913, an Agricultural Exhibition was held at Pen in Kolába to which specimens of forest produce as also articles manufactured therefrom were contributed and Mr. Gumaste of the forest staff read a paper on the tending of woods.

The Fowler road train sanctioned previously for the Surat Dángs was delivered in the month of April. It was found, however, that the southern portions of the road through the Baroda State on which it was intended to run were unsuitable and the engine is at present driving the saw mill in the North Dángs, until a road the upkeep of which will remain in the hands of the Forest Department can be completed to the new light railway station at Kalambe on the western frontier of the Dángs.

Famine grass operations were carried in the Tánsa catchment area under the supervision of Mr. Bijur, Extra Assistant Conservator of Forests, and near Kalyán and Badlápur stations under Mr. Saldanha. The former assisted the subordinates of the Military grass farm who in turn had a contractor; the latter dealt with his own contractors, a system which proved the more satisfactory of the two, both as regards quick work and obedience to departmental orders.

The remarks made by Collectors of Districts in forwarding the Administration Reports of their Divisional Forest Officers were as follows :---

Panch Mahals .--- " Forwarded with compliments.

2. The coupes sold much better than they did last year, when somewhat pessimistic feelings prevailed.

3. The working plan did not have to be suspended as was apprehended at one time.

4. Fire protection has improved considerably chiefly in Godhra and Kalol and Dohad in the order named.

5. The plan mentioned in para. 63 will facilitate matters.

6. The present Collector was practically not in charge during the year, but he has had opportunities since of judging, and he considers that Mr. Bourke has worked exceedingly well, and that Mr. Patel has zealously seconded Mr. Bourke's efforts."

### Surat.-- "Forwarded with compliments.

2. Special attention is invited to para. 13 (end). The value of the Southern Dángs forest is held in suspense until this road is linked up.

3. There seems to me an error in the enormous quantity of firewood (over 71 crores of cubic feet) which would have kept a big railway administration busy for a year to handle, said to have been extracted by privilege-holders. Perhaps a decima point has gone astray?

4. Enquiry is being made as to why the Fowler train failed to negotiate the very road which the agents inspected and pronounced suitable. It is hoped it will not similarly fail in the Southern Dángs : but we must see whether there has been any misrepresentation.

5. Everything else in the report is satisfactory and does credit to Mr. Marjoribanks' administration. The incidence of fever has been more severe. It is not stated whether the attempt to use mosquito curtains has been given up."

T"ána.—" Forwarded with compliments to the Conservator of Forests, Northern Circle.

2. The forest revenue continues to expand; the total profit for the district this year is Rs. 8,70,971, an increase of Rs 1,16,396 over the figures of last year. The prices of timber have risen considerably and the demand for charcoal in Bombay has increased enormously of recent years.

3. Large as the forest transactions are, they would be still larger if the district facilities of communication were improved. The Talasari Mahál cannot be worked for want of roads, and 60 coupes in other parts of the district could not be sold chieffy because of the difficulties of transport. The programme of forest roads has now been revised and it is to be hoped that greater progress will be made in future in the construction of those roads which are essential for the proper exploitation of the forests. Some of the roads would earn the cost of their construction in a very short time; the Udhwa-Kase Road and the Parli-Khardi Road are examples.

The Divisional Forest Officer, Central Thána, draws attention to the congestion of traffic on the G. I. P. particularly at Khardi and its prejudical effect on coupe prices. This was no doubt accentuated this year by the famine grass operations carried on about Khardi.

4. There is a noticeable rise in the number of ffences in Central Thána, a slight increase in North Thána and a decrease in South Thána.

The Divisional Forest Officer, North Thána, suggests the establishment of an Honorary Magistrate's Court at Manor, the head-quarters of the Máhim Range; it would no doubt be a considerable convenience to the Forest Department, but unfortunately there is at Manor no suitable person for the post.

5. The figures of area burnt show a noticeable decline in all three divisions: where 100 acres were burnt last year in the district, only 35 were burnt this year. This is probably due far more to climatic reasons than to anything else, though in saying this the Collector does not wish to depreciate the efforts of the Forest Officers in spreading the gospel of protection of the forests from fire. The heavy rain at the end of November, which varied from 6 inches in Umbargaon to  $2\frac{1}{3}$  inches in Máhim, must have kept the forests g een longer than usual and the period of risk was shortened too by the early break of the monsoon. 6. Impoundings were 33 per cent. more numerous this year than last in Central Thána; the other divisions show a slight decrease. The impoundings of agriculturists' cattle have declined to a marked degree in South Thana, but there was in this division a considerable increase in the number of sheep and goats impounded, belonging, as the Divisional Forest Officer reports, to Kathodi charcoal burners.

7. Two out of the three Divisional Forest Officers comment on the difficulty of getting suitable men for Round Guards and the low rate of pay of Beat Guards. The difficulty is presumably felt also in North Thána.

All departments are being adversely affected by the prevailing high prices; the only remedy is a revision of the pay throughout.

8. In last year's review the Collector had occasion to comment on the large number of punishments; he is glad to see that there has been an improvement in this respect in Central and South Thana. In North Thana, the record is even worse than last year.

9. It is gratifying to note a great improvement in the attitude of the people towards forest conservancy in Central Thána and greater readiness on the part of the people of North Thána to assist in the prevention of forest fires. In the case of several villages of Máhim Range and a few in other ranges special warnings have been issued that if the wild tribes do not mend their ways their privileges of removing dead wood for sale and barter will be permanently taken away."

Kolába.—" Fowarded with compliments with the following remarks :---

2. Paras. 7-8. Undersigned believes 'dalhi' plots to be mischievous, and hopes to do what he can towards reducing them as occasion offers. The proper policy towards the Thákurs and Kátkaris is, he believes, to turn them from forest nomads that they are into much needed labourers; thence into agriculturists if they are fit for it; but not straight into agriculturists. Instead of 'dalhi' plots they might be given house sites and small holdings in 'Gurcharan' near labour centres such as Panvel and the railway.

3. Paras. 31 33. Communal penalties and rewards.—More rewards might be recommended, as in the case of good malki tahal (para. 36). It is feared the penalties do not generally fall directly on the prime offenders, who are largely landless and cattleless, but there seems no other way of reaching the latter, and the villagers will come and are coming to see that the village forest is virtually their joint possession which it is their duty to protect.

4. Para. 34. Wood depôts for local supply.—The failure, expensive as it was, is not, in undersigned's opinion, a matter for reproach. It has demonstrated the sad fact that licit wood cannot compete locally with illicit, and the fact needed demonstration.

5. Paras. 35-37. Tahál.—There is good hope that the Southern Division will gradually follow the Northern in reboisement of málki lands. It has been back probably through (1) greater poverty and ignorance, (2) distance from Thána, the home of tahál reform, (3) it is feared the illiberal influence of the Khots. Improvement, as Mr. Rebeiro says, may take ten years to emphasize itself. But meanwhile the undersigned believes in no remission of practical demonstration. It is impossible to send village officers out with ráb cutters, and there seems no third means to educating the people to do their own forestry. Local officers deny that labourers and Kátkaris absent themselves from the demonstrations.

6. Para. 50. The undersigned agrees with the Divisional Forest Officer so far as the former's information carries him.

7. Para. 83. Undersigned will try to insist on tiled roofs for new houses.

8. Para. 94. No married man in this district ought to be expected, in undersigned's opinion, to live honestly on Rs. 9. Kolába rates of living at least in the north are largely affected by the high rates of Bombay, thus establishing a special justification for favourable treatment.

9. Mr. Rebeiro appears to the undersigned to be a most active and conscientious Forest Officer and has always been ready to advise on revenue-forest matters. As para. 86 shows his administration has been marked by great financial prosperity, as well as in other ways of progress."

#### Central Circle.

Owing to scarcity of fodder, Famine Fodder Operations had again to be undertaken by the Forest Department. No detailed account of them is here given, as a special report covering the operations, both in this Circle and elsewhere, will be submitted to Government by Mr. Millett, Senior Conservator, under whose direction they were carried out. It will be sufficient to mention that all demands from affected districts were fully and promptly met, and that Government have in band, stored in hydraulic pressed bales in pakka sheds in the West Khándesh Division, the 25 lákhs of lbs. which Mr. Bhiladwala under his agreement has to keep as reserve at the disposal of Government should necessity arise. This latter is not now likely to be the case, and the reserve will be duly renewed in the coming season at no cost to Government, Mr. Bhiladwala disposing of the present stock for his own use on payment of royalty fees to Government, and replacing it by the new grass free of charge. The total quantity of grass collected for famine purposes, and the total receipts and expenditure on its account, have been noted in the body of the report under respectively the heads Minor Forest Produce (Grass and Grazing) and Financial Results.

The following remarks may be made on various points noted by Collectors in their forwarding memoranda and which have not already received attention in this report :---

Sátára Collector's paragraph 5.—" Road extension is being carried on to the limit of funds available. For the proposed boom at Karád, the Divisional Forest Officer has, in consultation with the Public Works Department, worked out estimates of cost which should not exceed Rs. 1,000. Funds have been made available by the Conservator, and the purchase of the required hawsers and winches is in progress. The boom is admittedly an experiment and cannot be tested till next monsoon, but, if successful, it will amply repay its small cost by mitigating the scarcity of firewood that now prevails in the district and by enabling valuable, but otherwise inexploitable forests, to be brought under working. For the Mahableshwar and Panchgani fuel supply, the Divisional Forest Officer is working out a scheme for retail sale depôts."

North Násik.—" The damage to the anjan trees which the Collector remarks on as the result of the concessions of the last two years, doubtless refers to the destruction of the seed on the trees that inevitably accompanies the removal of the leaves by the people."

East Khándesh.—" The Bhil settlements referred to are in the Satpudas where there are no other villages of any sort, and where labour for fire protection and other forest works cannot be obtained. As a cultivator the Bhil is not a success; without tagái he cannot till the lands given him and will not remain at the settlement—given tagái for the purchase of cattle, and it is only a question of months before he kills the animal by neglect or ill-treatment; the land again falls out of cultivation and the tagái cannot be recovered. Nevertheless without these settlements, fire protection could not have improved as it has done in recent years, and there is always the difficulty that none but the Bhil can live permanently in these hills."

North Khúndesh-Collector's paragraph 9.—" The rest house at Dhadgaon in the Akráni is entered in this year's list of major works, and will it is hoped be built in 1914-15. Extension both of buildings and communications is very necessary in this unhealthy and out-of-the way tract, for at present roads are non-existent, and except at Toranm .1 there is no accommodation for touring officers; while the nearest dispensaries are far away in the plains at Táloda and Sháháda. A road will be surveyed this season by the Forest Department and, if feasible, should be of much use in opening up the country."

The cattle breeding experiments started three years ago in the Akráni under the superintendence of the Forest Department were continued, but with moderate success, for though two bulls are kept at convenient points, and the charges made are limited to the actual expenses necessary to feed the cows for the period they are kept, *viz.*, from October to May, and though the young stock that has so far been born is decidedly promising, yet there is a disinclination on the part of the people to send their best cows for service.

The relations of Forest Officers with Revenue Officers during the year left nothing to be desired. The remarks made by Collectors of districts in forwarding Divisional Forest Officers' Administration Reports were as follows:--

East Khándesh.—"The undersigned has few remarks to offer, having been in charge of the district less than three months and not at all during the touring season.

"A favourable feature of the report seems to be the decrease in the number of fires.

"In regard to Mr. Milne's remarks in paragraph 22, what has been done is to call the Magistrates' attention to the provisions of sections 25 and 32 of the Act. The Act contemplates imprisonment as a penalty for offences against its provisions, but there seem to be few subordinate Magistrates capable of disabusing their minds of the idea that offences against special or local laws are venial affairs which can be adequately met by

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small fines. These fines often amount to little more than a tax on the profits of deliberate and persistent breach of the law, and therefore cannot possibly be deterrent, especially in the case of those offences of which the detection is difficult and comparatively rare. While Magistrates often err on the side of leniency, it is at the same time, undersigned thinks, the duty of the Forest Officers prosecuting in these cases to press for adequate sentences.

"Paragraph 76.—The Bhil settlements do not seem to be altogether a success. In one of them there has already been default in the payment of tagái advanced, and it is proposed to give the lands to Kunbis on their paying up the arrears."

West Khåndesh.—"The general protection was on the whole satisfactory and the slight increase in the number of offences has been explained by the Divisional Forest Officer. The decrease in the number of undetected cases, and especially fire cases, is an indication of greater vigilance. The marked decrease in the area affected by forest fires is highly gratifying. It reflects credit upon the department as well as the people and shows that the old antipathy is being replaced by a tolerant feeling. It is a very wholesome sign of the increased interest taken in protective work by the people.

"The impoundings of cattle again show a large increase, and could have been avoided if the people who were permitted to graze their cattle in the closed portion of the forest had been warned sufficiently a few days before the said forests were closed. The impounding of cattle, though perfectly legal, is generally the cause of discontent and heart burning amongst the people. The grant of extended grazing facilities, the need for which has been growing every day, is expected to produce better results.

"The result of the experiments on the production and extension of lac was not satisfactory but the reason is obvious. It is due to the inefficiency of the subordinate entrusted with the work. With greater interest in the work, the result may be more encouraging.

"The financial results are rather unfavourable, but Mr. Sothers has given reasons."

North Khándesh.—" It is gratifying to note that satisfactory progress was made in the repairs and construction of forest roads.

"Though the number of offences has remained almost stationary, the number of undetected cases has materially gone down. The large number of warnings shows that the offenders were treated with leniency. The number of prosecutions instituted for offences against general protection was comparatively small, and the results obtained were quite satisfactory.

"The special measures adopted for fire protection proved effectual and resulted in a material reduction in the number of fires and the area burnt, specially in Táloda and Sháháda. The Akráni range lost the most and requires more vigilant supervision, but it is the most difficult place too in the absence of better means of communication.

"The number of cattle impounded from closed forests shows a large increase except in the case of goats. Perhaps a large number of these impoundings could have been avoided if timely warning had been given to the villagers. The privilege of free grazing is an important factor in enlisting the sympathy of the forest inhabitants and in securing their co-operation to prevent forest fires.

"The "Agriculture-cum-Forestry" system does not appear to have been successful so far. The experiments on the propagation of lac seem to have been carried on with care.

"The financial results of the year are not quite good compared with the last year but Mr. Starte has given reasons for the fluctuations.

"The Collector has read with interest the commendations bestowed upon the Rangers in fire protection work. Mr. Starte himself deserves credit for his efficient supervision.

"A dispensary and a rest house at Dhadgaon in Akráni are no doubt absolutely necessary, and are under consideration. The proposal to have a daily postal service to Dhadgaon is also engaging the attention of the Postal Department."

North Násik.—" It is clear that the concessions given in the last two years for taking anjan leaves have very seriously damaged the growth, thus reducing what must be regarded as a fodder reserve for years of real famine. This was not such a year, yet Mr. Dalia recommended that permission should be given to pick the growing leaves in June. It seems that my refusal to support his recommendation was thoroughly justified."

South Násik.—" It is hardly correct to say that the tahal supply in Peint is more than sufficient. Some villages have much more than they want, but some have much less and some none at all. It is in those that have a little but not enough that the trees are most damaged; the leading shoot is spared, but nothing else, and I have even seen trees of the sacred Ficus tribe cut to supplement the supply from Sadada trees. Those villages that

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have none at all seem to get on remarkably well; they only have to take the trouble to pick up their cowdung.

"In general I agree with Mr. Gilbert's remarks on this subject.

"It is unfortunate that punitive rates and deprivals of privileges have had to be continued in so many villages. But the people round Igatpuri, especially, have to be dealt with strictly. No doubt the great demand of fuel there is the chief reason. I am glad to say that I need not repeat my remarks of last year about reckless prosecutions."

**Poona.**—"When I took over charge of this district I found that the reserved forests to be handed over to the Revenue Department had not yet been classified into cultivable and non-cultivable. The question of working reserved forests by village agency is being dealt with by the Sub-divisional Officers on lines laid down by me where the forest is worth preserving. Where suitable, village panchayats are being formed for the management of forest and grazing areas.

"The bridle path from Kothrun to Lonavla, so far as I was able to inspect it, is a most useful piece of work, and is of the greatest possible advantage to the villages in the hill tracts.

"Mr. Thomson will be asked to submit a special report on forest crimes. As I have no experience of the district I accept Mr. Thomson's explanation that the increase is due to efficient supervision. The crime of illicit felling is difficult to detect in hill villages where supervision cannot be effectively carried out without a large establishment entailing prohibitive expense. More than 50 per cent of the offences are illicit felling, and there is no reason to suppose a sudden access of crime in this direction. It is only reasonable, therefore, to assume that increased supervision under Mr. Thomson's regime has brought more offences to light. The percentage of acquittals, however, shows that cases were not carefully scrutinised before being sent to the courts. The necessity of inflicting deterrent sentences will be brought to the notice of the Magistracy. Such cases that have been proved since my arrival in the district have, however, been more adequately punished than I have found in other districts.

"The increase in fires from 38 to 51 is a paper increase as the real question at issue here is the area destroyed. This fell from 5,255 acres in 1910-11 and 1,620 acres in 1911-12 to 938 in 1912-13, and these figures are most satisfactory reading. The orders of Government to check fires by increasing grazing fees of the village have not been lost sight of.

"The number of impoundings is still large; it is due to the fact that the concessions so generously granted have been taken to mean that fees may be avoided. A steady infliction of double fees will gradually correct this misapprehension. I consider these impoundings are not due to insufficient grazing facilities so much as to the desire of the villagers to dodge grazing fees.

"The financial results show Rs. 36,991 as against an average of Rs. 23,287.

"In conclusion the report shows that in every branch of forest administration Mr. Thomson is effecting improvements with commendable thoroughness and attention to detail."

Sátára.—" In respect of fire-protection the position is on the whole very satisfactory; there appears to be no deliberate burning of the forest for the sake of the resultant grass. Cattle trespass occurs, however, on a seriously large scale. The effect of doubling the grazing fee has not been tried, and the villages in which this form of forest offence is common, will now be warned that the grazing fee will be raised to 4 annas unless there is a marked improvement in this respect. The Collector proposes to discuss with Mr. Wallinger the measures that are best calculated to deter the owners of sheep and goats from grazing those animals in the forest.

"The fruit plantations appear to the Collector to be deserving of strong support. The Lingmala pears are excellent cooking fruit. The Gureghar plantation may lead to important results.

"The Collector agrees with Mr. Wallinger's remarks regarding the destruction of reserved trees in occupied land. Teak grows well in the western talukas of the district and the value of the timber, like the cost of firewood, is always rising. The reversal of the present policy and measures for the reboisement of occupied land seem to the Collector to deserve the serious consideration of Government.

"The scarcity of firewood, which is already felt severely, will probably become more acute unless the supplies in the Koyna Valley can be tapped. The proposed boom at Karad, if successful, and if the obstruction at Nisra can be passed, will solve the question for Karad and the neighbourhood. But a road from Sátára to tap the upper part of the Koyna Valley seems urgently needed for the exploitation both of fuel and of grass. The Collector is strongly in favour of the extraction of forest grass in normal years as well as in years of scarcity. At Mahableshwar and Panchgani there seems to be nothing for it but the opening by the Department of retail depôts for the sale of firewood. "The Collector endorses with pleasure Mr. Wallinger's remarks regarding the cordiality of the relations between the Forest and the Revenue Departments."

#### Southern Circle.

The year was a favourable one; there was a plentiful monsoon throughout the Circle; it was abnormally heavy in Kánara and Belgaum and the beneficial effects lasted right through the hot weather. The good cereal and cotton crops everywhere resulted in a large demand for forest produce. The timber market was better than it has ever been and the depôts generally were emptied of their contents. The prices for teak, matti, blackwood were exceptionally high.

The gross revenue was the largest on record; the net revenue was also the highest ever realized. And this notwithstanding the failure of the roadengine in the North Kánara Division.

All the Strobilanthes that did not flower last year died this year and nearly all the remaining bamboos seeded.

There were no mining operations to speak of.

The Fowler train proved an absolute failure. The roads are too lightly metalled and its weight simply ground the surface to pieces. The machinery and driving gear are too exposed and wore rapidly through the dust getting in. Inexperienced and careless mechanics had also to be reckoned with. The cost per ton-mile worked out to annas 12-9, whereas the calculation of the vendors stands at anna 1. Ordinary carts cost annas 6-2. The actual work done was small and much timber consequently still remains behind in the jungle depôts. The engine of the train is now working a second saw-mill for which there is plenty of material to cut up. We learn now, when it is too late, that these trains have failed everywhere in India where they have been tried on forest work. Before the train was bought all reports were favourable.

Something must be done to carry timber from Dandeli to Tawargatti. Carts are not to be had in sufficient numbers. A tramway is under consideration.

The Bajac windlass, a French machine, carrying 600 metres of wire rope and worked by a pair of buffaloes, was purchased to drag logs up steep slopes and has proved an unqualified success on the precipitous sides of the Kaneri Nalla which have remained unexploited up to now owing to impossibility of getting the logs up. The windlass cost Rs. 1,500 and is better than any elephant.

The monorail was again mismanaged by the contractor to whom it was lent, but we hope to make it pay.

The working of the little tramway in the Kodibag depôt has not been very successful; the rails are too light for the big logs and get bent; also a crane is required to lift the timber on to the trucks.

The outturn from the old saw mill in Kánara North Division was hampered by the failure of contractors bringing in sleeper pieces and by the bursting of the dam of the tank that supplied the water in the busiest season.

The three Gund elephants worked well; the calculated net profit on this work is Rs. 6,065. The old male has been behaving properly of late and has given little trouble.

Two Government buffaloes were not so profitable as last year. Six died from some sickness; the veterinary man summoned to pronounce on the cause of death ascribed it to heat-stroke. It was probably some poisonous herb.

The telephone lines were installed during the year. That in Kánara Eastern Division was of great use; that in Northern Division was interrupted frequently by falling trees and the machines got out of order, probably through ignorance of subordinates.

Mr. Copleston constructed a cart-track from Gund to the passage over the Kaneri Nalla and thence to Potoli. It is of great utility and facilitates the movement of carts and timber into and out of Gund and the somewhat (formerly) inaccessible Aurli and Hudsa jungles. These improvements in communication are gradually enabling us to handle produce that was formerly unreachable and considerably economise in expenditure of export.

Some villages in Dhárwár were placed under forest management with the Divisional Forest Officer as Assistant Collector and the Ranger as Mahálkári. It is expected that this will greatly facilitate fire-protection and preservation of the jungles. It is too early yet for results to be gauged.

The betta work under Mr. Hiley is finished in Sirsi. That in Siddápur is well in hand and the whole thing will probably be finished next year.

The soppin assignment work in Ankola is being carried out under the management of the Revenue Department and progress is being made; it will take some time to finish it. Ankola is being done; once that is finished the other talukas will not take as long.

Mr. Hodgson has been effecting much good work in Belgaum in the matter of weaning the people from kumri. In many cases these people have asked for rice-lands, saying they do not want kumri.

Some experiments were made in departmental grass cutting by Mr. Hodgson which resulted in little profit. Further attempts will be made. He is also trying to awaken a trade in charcoal which should prove profitable eventually.

Eighty-six shooting licenses were issued during the year. Two cases of poaching were taken into court but both ended in discharge for want of sufficient evidence. The present Game Rules do not work satisfactorily and the Collector of Kánara and myself have drafted new ones to be submitted to Government.

A conference of Forest Officers was held in Poona at which all the men from the Circle were present. It was held in September and good work was done.

The Collectors, in forwarding the various divisional administration reports, make the following remarks :---

Kánara Northern Division :---

"The success of measures for fire-protection in organized forests is noticeable. It is mainly the result of patient and continuous endeavour on the part of the Divisional Forest Officer and the establishment under him.

The report is a record of a very satisfactory year's work, notwithstanding many difficulties."

Kánara Southern Division :---

"Mr. Butterworth continues to administer his charge with efficiency."

Kánara Eastern Division :----

"The successful results of measures for fire protection are of course partly attributable to the character of the season, but this was only a contributory cause, and the results are principally due to the system of combining reward with punishment in dealing with the villagers.

The proposal to put certain hamlets in charge of the Divisional Forest Officer has, it is understood, been forwarded to Government."

Kánara Western Division :—

"The acquittals in cases brought to trial are to some extent due to the attitude of the Kárwár Third Class Magistrate, but the long delays that frequently occur between detection of offences and eventual prosecution have a good deal to do with the results."

Belgaum.—"The Collector has nothing but commendation for Mr. Hodgson's work from the administrative point of view. His schemes and achievements with regard to road improvements, fire protection, employment of Berad labourers, additional cattle pounds, strict punishment for forest offences and liberal concessions for cooperation in forest protection, grazing and forest privileges and kumri are sound and tend to the people's comfort and profit."

Dhárwár.—" Mr Sátárawála nas toured with much activity and in his relations with the Revenue Department has shown invariable courtesy and good sense. In his dealings with villagers he is tactful and sympathetic and always ready to attend to the very few complaints that reach him through the Collector. So far as the latter can judge from the absence of any serious complaints, and the results recorded in the report, the charge has been thoroughly well administered during the past year."

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Bijapur.—"The cases of wilful incendiarism do not appear to have been brought to the notice of the District Magistrate. Such criticism of magisterial action is out of place in an administration report and unfair to the magistrates concerned. Each case has to be viewed on its merits and it is open to the Divisional Forest Officer to move the District Magistrate for enhancement of sentences where the facts require such a course. General animadversions or fine averages cannot convince.

Mr. Limaye is entitled to credit for his vigorous administration of the Division during the year."

#### Sind Circle.

In accordance with an agreement entered into with the Deputy Assistant Director of Supplies, 4th (Quetta) Division, 823,000 cubic feet of fuel were supplied to the Military Department at Quetta from the coupes of the Sukkur Division. The contractors who bought the coupes from the Forest Department were bound under their agreements to supply the above during the cold season. The arrangement has worked well for the last two years.

The plantation at Kot-Sultan mentioned in last year's report (page 87) was only a very qualified success, and will continue as such till water is available in larger quantity. Given plenty of water, it would be possible to raise a fine stock of trees, which would be a very valuable asset in that part of the country. The efforts of the Department are at present confined to saving the stock already raised rather than to any further extension of operations.

The civil suit instituted by one Chandiram, a forest contractor in the Jerruck Division, against the Collector of Hyderabad for alleged breach of terms of his coupe agreement by the Forest Department was decided in favour of the Department, but an appeal against this order has been filed in the court of the Judicial Commissioner of Sind. The appeal is not yet decided.

There was a theft of Rs. 322-10-0 Government money in the Mulchand Range, Jerruck Division, the Range Forest Officer's cash box being removed bodily from his sleeping tent at night. The theft was reported to the Police at once, but the thieves have not yet been discovered. The Commissioner in Sind has (since the close of the year) sanctioned the writing off of this money, the Range Forest Officer being exonerated from blame.

The depôt hitherto maintained at Keti Bunder for checking the passes covering forest produce in transit was found superfluous, and was abolished during the year, the staff being usefully employed elsewhere in the division.

The Tigir Forest Range (Nausháhro Division) was, with the approval of the Commissioner in Sind, renamed the Radhan Range.

A feature of the year was the large amount of timber and fuel exported from the Khairpur State and imported into Sukkur and Larkana districts. The State authorities are getting rid of the old *shikargahs* (shooting preserves) and giving the lands out for cultivation. The *shikargahs* are going for a mere song, and the Sukkur market especially is glutted with wood. This renders it difficult to sell the Government coupes at a fair price. A falling off in prices is inevitable for the next few years, after which things may be expected to right themselves.

At the beginning of June the first Forest Conference ever held in Sind was assembled. There were 7 officers present (all that were then in Sind). Six papers where read and discussed. A full report of the proceedings was submitted to the Commissioner in Sind, and proposals for new grazing rules and the introduction of game laws into Sind were made. These are now under consideration. The matter of superfluous office work was fully discussed and orders were afterwards issued by the Deputy Conservator as the result of these discussions. These orders will have the effect of reducing the office work and at the same time increasing the efficiency of the Department.

The relations between the Forest Department and other Government Departments were amicable and satisfactory. It is gratifying to have this statement borne out by the officers of those other Departments. True, a difference of opinion did arise between the Forest and Riverain Police in Hyderabad Division, but the Deputy Conservator brought about a meeting of the Assistant Superintendent of Police and the Divisional Forest Officer in his own camp, and the matter was satisfactorily explained and the friction removed.

The following remarks are selected from those made by the Collectors and the Deputy Commissioner, Upper Sind Frontier, when forwarding the Administration Reports of the Divisional Forest Officers.

Sukkur Division.—By Mr. J. R. Martin, Deputy Commissioner, Upper Sind Frontier :—

"The comparative freedom from forest fires is a matter for congratulation. The measures taken as a punishment for the many offences of this nature in the preceding year, namely the enhancement of fees and suspension of free grazing in certain areas, are still in force in this district. On the other hand, the Conservator was good enough to open the forests upto 30th November for free grazing on account of the fodder famine which existed. The concession was of the utmost value, especially in the eastern part of the district. The same scarcity of fodder prevails again there this year, and the privilege of free grazing has been re-granted to cattle owners in that locality and should enable them to carry on till fodder becomes available. The liberal attitude of the Department in this matter has been much appreciated."

Hyderabad Division.—

By Mr. P. W. Monie, Collector of Nawábsháh:-

"Paragraph11.—The claim in respect to land in front of Lakhat forest has been admitted. The Divisional Forest Officer is being consulted regarding the claims which were made in 1911-12 and which are still, he says, undecided.

Paragraphs.-36-47, Forest offences; and 53-54, Impounding of cattle.

The figures relating to the Sakrand Range call for no comments.

The relations of the people with the Forest Department were satisfactory in the Sakrand Range, and no complaints have been received since the Nawábsháh District came into existence."

By Mr. G. A. Thomas, Collector of Hyderabad :---

"Paragraph 34.—The figures of offences are less a subject of congratulation than at first appears. The reduction is closely proportionate to the reduction of grazing fees quoted in paragraph 77, and the cause is the same in both cases. Presumably the Divisional Forest Officer has not adopted the new method of classification introduced by the Conservator's orders cited in paragraph 33 of the Jerruck Divisional Forest Officer's report. The rise in the number of "other offences" is sufficiently remarkable to require some elucidation."

By Mr. W. F. Hudson, Collector of Karachi :---

"It is satisfactory to note that no prosecutions were launched during the year under report and that there was a drop in the number of forest offences in the Unerpur Range. The number of fires also showed a decrease."

Jerruck Division.---

By Mr. W. F. Hudson, Collector of Karáchi :--

"The undersigned has very few remarks to make, as it is a long time since he had any personal acquaintance with the forest of the Jerruck Division, and the whole question of forest administration in Sind was discussed very fully by Mr. Lawrence in his remarks on last year's report.

Paragraph 11 — The settlement report in connection with this area was written several years ago, but for some inexplicable reason the papers were lost. Copies have now been obtained, and the report has been submitted to Government.

Paragraph 37.—Six separate fires occurred within a week in the Huderani forest and all of them in circumstances which pointed to deliberate incendiarism. As the villagers in the neighbourhood had already been subjected to double grazing fees, it appeared necessary to take stronger measures, and the Collector accordingly closed the forest for a year to all grazing. Steps have been taken to explain to those concerned the reasons for this action, and it is hoped that they will profit by the lesson.

Paragraph 89. The undersigned has been glad to note, during the short time that he has held charge of the Karáchi District, that the relations between the Forest Department and other Departments are decidedly satisfactory. This is worthy of record, since it has not always been the case either here or elsewhere in this Province."

By Mr. G. A. Thomas, Collector of Hyderabad :---

"Only one Range, viz., the Katiar Range in the Jerruck Forest Division, falls within this district and there is practically nothing of importance connected with this Range calling for special notice. A dispute arose during the year between the Forest Department and Mir Mahomed Bux Khan regarding the latter's right to certain karias, the Divisional Forest Officer refusing to permit the Jagirdar to carry out clearance work until he had proved his claims to the canal. The matter is still pending.

Paragraph 25.—In undersigned's opinion it is regrettable that figures of the offence of illicit cattle grazing in open forest should be excluded from the statement of offences. In a province where this is the commonest form of forest crime it would be useful to have a comparative statement of such offences in the annual Administration Report."

#### Nausháhro Division.—

#### By Mr. J. E. B. Hotson, Collector of Larkana :---

"Several claims to kachas are still under correspondence. So many conflicting interests are involved that delays are almost inevitable.

From time to time the question arises whether the subordinate officers of the Forest Department have not too much power to compound cases. The number of cases which come into court, with not very satisfactory results, is extremely small, while complaints are rife of the exactions of the minor officials : unluckily these complaints are too vague to be followed up. The figures in this report appear, however, to demolish one very frequently repeated statement that the grazing fees collected as composition for fines bear a very high proportion to those paid in advance for permits. The grazing fines seem to have been only Rs. 268 against Rs. 6,724. The statistics of fires show a great improvement over last year, due, no doubt, chiefly to the better season.

By Mr. P. W. Monie, Collector of Nawábsháh:-

"The claim of the Forest Department to kacha land in Khairodero has been referred to the Commissioner in Sind. The disposal of the remaining cases affecting this district will be expedited."

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#### REMARKS OF THE COMMISSIONER, NORTHERN DIVISION, ON THE FOREST ADMINISTRATION REPORT OF THE NORTHERN CIRCLE FOR THE YEAR 1912-13.

## No. 3776 of 1913.

#### REVENUE DEPARTMENT.

#### Ahmedabad, Shah-i-Bagh, W. D. No. 1. 26th September 1913.

The forest area diminished by 660 acres chiefly on account of the clearance of the old Modása Reserves to make way for cultivation. No advance towards a decision on the question whether the Chikhli-Bulsar Kange should be disforested or retained and added to has been made, as the present Conservator desires to inspect the land before making any recommendations. Very little demarcation work remains to be done in this Division; the revision of the Dangs boundary has been completed. Appreciable progress was made with the extension of road communications in the Dangs and Central Thána.

The total number of offences against the forest, though slightly in 2. excess of the three years' average, yet shews a satisfactory decrease as compared with the figures for the year 1911-12. Compounded cases of unauthorised fellings and illegal grazing numbered far more than the average, while undetected cases were fewer than usual. Fires were less numerous than before, a result partly due to heavy rain late in the season and an early monsoon. Of the 253 cases taken into court 220 or 87 per cent. resulted in the conviction of the offenders. Everywhere except in Central and South Thana the number of animals impounded for trespass on forest fell off, the falling off being most noticeable in the Panch Maháls where scarcity of fodder was not prevalent as in 1911-12. In the Surat Division the impounding of cattle appears to have been reduced to a minimum.

3. The financial results of the year's working were very satisfactory, the net surplus of income over expenditure being (exclusive of famine fodder figures) Rs. 7,96,332, despite a considerably increased expenditure on roads, buildings, the purchase of a road-train and revision of the pay of the establishment.

Punishments numbered only 316 as against 61; in the preceding year; 248 of these took the form of fining. The Conservator's suggestion that a deputation allowance should be granted in all unbealthy localities or where labour is in great demand should be dealt with in a separate reference and not in an Administration Report.

#### R. P. BARROW,

#### Commissioner, Northern Division.

REMARKS OF THE COMMISSIONER, SOUTHERN DIVISION, ON THE FOREST ADMINISTRATION REPORT OF THE NORTHERN CIRCLE (ONLY SO FAR AS THE KOLABA DIVISION IS CON-CERNED) FOR THE YEAR 1912-13.

#### No. 3387 of 1913.

REVENUE DEPARTMENT.

Belgaum, 14th October 1913.

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Submitted to Government.

The year has been a normal one as far as the Kolába District is conterff. ed and the Commissioner has no remarks to offer. torests. 9<u>7</u>7. 2,015 or

W. D. SHEPPARD: 9dd jaq Commissioner, Southern Division.

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## REMARKS OF THE COMMISSIONER, CENTRAL DIVISION, ON THE FOREST ADMINISTRATION REPORT OF THE CENTRAL CIRCLE FOR THE YEAR 1912-13.

#### No. 4280 of 1913.

## Poona, 8th November 1913.

Submitted to Government in the Revenue Department.

2. Though the rains had not failed during the year under report over so large an area as in the preceding year, the demand for forest grass was even greater in the former than in the latter year. The receipts showed an increase of Rs. 32,003 or about 10 per cent. over the preceding year's receipts. As the tendency on the part of the better class of cultivators to grow the more remunerative crops such as cotton and groundnut in preference to fodder crops continues, grass naturally comes to be more extensively used and the value of Government forests becomes more and more appreciated in the interests of the eattle of the country. Throughout the present report there are unmistakable indications of a better state of feeling prevailing on the part of the people towards forest officers and forest methods—the result of a better appreciation of the usefulness of forests to their general well-being.

Famine fodder operations were carried out during the year in the South Nasik and West Khandesh divisions but on a much smaller scale than during the preceding year. A separate report on this subject is promised by the Conservator.

In reviewing the Forest Administration Report of this Presidency for 1911-12 the Government of India commented on the unsuitability, inadequacy or inaccuracy of some of the existing working plans (Government Resolution No. 7262 of the 5th August 1913). No progress in the matter of bringing these plans up to date was made in the year under report, and no fresh plan was submitted for sanction. It is understood that Divisional Forest Officers have collected the necessary data in many cases; but that examination by a trained and experienced Working Plan Officer is necessary before action can be taken. The Commissioner concurs with the Conservator in thinking that the appointment of such an officer is urgently needed.

3. In respect of communications the Conservator makes special reference to the Borzar Charanmal section of the road between Pimpalner and Nawapur in West Khandesh. A separate report on the subject submitted by Mr. Napier is under consideration in consultation with the Collector and the Superintending Engineer and will be shortly submitted to Government.

4. The statistics relating to forest protection are not very encouraging. The number of forest offences shows an increase from 7,536 in the preceding year to 8,643 in the year under report—an increase of nearly 15 per cent. The increase, however, amounted to only 540 over the average of the three preceding years, and much of it may be attributed to more efficient supervision on the part of establishments and the failure of the harvest. The only serious crime committed during the year related to a combination of the inhabitants of three villages in Sangamner and Akola talukas in the Ahmednagar district to commit systematic thefts of timber and to thwart the efforts of the authorities at detection. The punishment inflicted on these villages, viz, the quartering of additional police, will, it is hoped, serve as a deterrent on similar attempts in future.

5. The number of animals impounded for trespass in closed forests or for other offences against the grazing rules was 1,02,269 in the past year against 76,682 in the preceding year. About 28 per cent of the increase of 25,587 occurred under sheep and goats, which are now practically excluded from all forests except those under the management of the Revenue Department and 2,015 or 8 per c. t. under animals impounded owing to their owners' refusal to pay the grazing fees. Setting aside these there still remains a large increase of 16,092 over last year's number of horned cattle impounded, the East and West Khandesh divisions, the two Nasik divisions and the Poona division contributing mainly to this increase. In most cases the early cessation of the last year's rains was responsible for the increase, as was also, in a lesser degree, the influx of cattle from non-forest regions to the forests. The Collector of West Khandesh remarks that much of the impoundings in that district could have been avoided, had the people been warned a few days before the forests were closed, but the Commissioner does not agree. Apparently the offenders were mainly strangers from some distance across the Nasik border, and no amount of warning is likely to have affected them. Generally speaking the Commissioner does not consider that the number of impoundings was larger than the circumstances of the year justified. With the increase in the area under non-fodder crops people are yearly becoming more and more dependent on the forests and it is obvious that if there is to be any grass at all a closure at certain periods of the year must be enforced. If this is not done, there will be no grass for anyone.

6. It is very satisfactory to note that the contraction in the area traversed by forest fires continued this year also and that there was a reduction of 63,504 acres or 62 per cent. over the previous year's total. As pointed out by the Conservator the falling off is not merely casual, for, in the three Khándesh divisions in which by far the greater portion of the total area is annually burnt, there has been a steady and marked decrease from 3,38,114 acres in 1908-09 to 35,119 acres in 1912-13 or nearly one-tenth. The improvement is due as much to the vigilance and preventive measures used by the Department as to the willing and timely assistance which the people have now learned to give to Government in preventing and putting down fires.

7. No definite results were obtained during the year in the matter of lac culture, experiments in connection with which were continued in the East and West Khándesh districts. As the quality of Khandesh lac is reported to be very good and its cultivation a valuable source of revenue, the experiments will be continued.

8. Forest demarcation is not very heavily in arrears in any division, except the South Nasik division where no less than 935 miles of forest boundary remain to be demarcated. It is very desirable that some special arrangements should be made to accomplish this work within a reasonable time.

9. As regards the collection of hirda the royalty system sanctioned in Government Resolution No. 7083 of the 31st July 1912 was tried during the year and promises to be more successful than any of the systems tried before. That it is a hopeful scheme is indicated by the fact that the price realized (Rs. 7,221) in a year of scanty crop was exceeded only once before under other methods. The separate report on the subject submitted by the Conservator is being forwarded to Government.

10. Tahal cutting demonstrations were held by the Divisional Forest Officer, Poona, in the Lonavla range and it was found that the people were fully acquainted with the correct principles. In the Peint Range in the Násik district, the Divisional Forest Officer was not able to pay much attention to this matter and he as well as the revenue officers propose to devote special attention to the subject this season.

11. The transactions connected with famine fodder operations resulted in receipts to the amount of Rs. 2,46,334 and expenditure to the amount of Rs. 1,14,877. Omitting these from consideration, the surplus of departmental income over expenditure was Rs. 2,51,268. This was smaller by Rs. 85,233 than the surplus of the preceding year and higher by Rs. 46,906 than the average of the surpluses of the five years ending with 1911-12. The decrease in the surplus is due to abnormal and special circumstances in the North and West Khandesh and in the North and South Násik divisions. In all these divisions the mhowra crop was a failure. In the South Násik division the decrease is also attributed to a change in the system of the disposal of the hirda crop.

12. Generally speaking the report is 'highly satisfactory and reflects the 'highest credit on Mr. Millett, Mr. Napier, and all concerned.

G. S. CURTIS,

Commissioner, C. D.

#### REMARKS OF THE COMMISSIONER, SOUTHERN DIVISION, ON THE FOREST ADMINISTRATION REPORT OF THE SOUTHERN CIRCLE FOR THE YEAR 1912-1913.

The year under report establishes a fresh record in the matter of gross and nett receipts which have respectively risen to Rs. 19,08,195 and Rs. 8,97,649 against averages of Rs. 14,26,770 and Rs. 5,56,800. This result is attributable to a strong demand for wood of all kinds, a consequent rise in prices and a full supply of timber in the various depôts. Equally good results may be anticipated in the future but only if exploitation can be fully maintained and developed, and it is unfortunate that a set-back in this direction has to be recorded in the failure of the Fowler road train from which much was expected. Of the three other improvements the most successful is the Bajac windlass which effectively drags logs up the steepest slopes.

2. In other respects also the year has been a success. Fire protection has shown excellent results and it would seem that the patient efforts of many years of work are proving ultimately successful. A firmer control of the forests is indicated in the increase in the number of offences recorded and brought to book, while consideration for the needs of the people is shown in the measures taken for the supply of local needs.

3. A small beginning has been made during the year in the matter of placing in-forest cultivation in the hands of the Forest Department. There are many portions of the Kánara District where this can be done with advantage both to the cultivators and the forests, and it is to be hoped that the system will be gradually extended.

4. Mr. Bell and his officers are again to be congratulated on the result of the year's work.

#### W. D. SHEPPARD,

Commissioner, Southern Division.

Belgaum, 20th October 1913.

#### No. 3488 of 1913.

Office of the Commissioner, Southern Division, Belgaum, 20th October 1913.

Submitted to Government in the Revenue Department.

W. D. SHEPPARD, Commissioner, Southern Division.

## REMARKS OF THE COMMISSIONER IN SIND ON THE FOREST ADMINISTRATION REPORT OF THE SIND CIRCLE FOR THE YEAR 1912-13.

No. 4043 of 1913.

#### REVENUE DEPARTMENT.

Office of the Commissioner in Sind, Karáchi, 5th December 1913.

#### Submitted to Government.

2. The forest settlement work done during the year under report was very small. Out of 38,704 acres due for settlement, only 274 acres were settled. The bulk of the work (32,152 acres) is pending in the Sukkur division. The special attention of district officers is being drawn to the necessity for the early completion of the remaining settlements. The progress made in the division of forests into compartments was again poor, but the Deputy Conservator explains that the area of 124,023 acres which still remains undivided consists almost entirely of newly-formed kachas, which owing to the growth of jungle being very small are not yet fit for sub-division.

3. The total number of forest offences reported during the year was 961 as against 4,166 in the preceding year. The decrease occurs under every head excepting that of "other offences" and is due principally to the fact that, while cases of illicit grazing compounded under section 67 of the Indian Forest Act were treated as offences in the previous reports, they have not been so treated in this report. The Commissioner doubts the correctness of the statement of the Deputy Conservator on this point contained in Chapter II-3 (a) General Protection. A reference to the statements at pages 16, 18 and 19 of the Forest Administration Report for the year 1910-11 seems to indicate that cases of illicit grazing compounded under the Act are counted as offences in the Presidency Proper. Moreover, there is no reason for omitting information of this nature from a Forest Administration Report. Unless, therefore, the practice referred to by the Deputy Conservator does exist in the Presidency Proper, he should conform to the old practice of treating such cases as offences.

Questions relating to the adoption of measures for the decrease of forest offences including forest fires were discussed by the forest officers at the conference held in Karáchi in June last. A copy of the printed proceedings of the conference is attached\* for the information of Government. The Commissioner has passed orders on the proposals of the conference in respect of the grazing fees, and the minimum period for which a pass should be valid, and a copy of his orders is being submitted separately to Government with reference to paragraph 4 of their Resolution No. 7262 of 5th August 1913. The Commissioner trusts that the concessions which he has now ordered to be made and which are even more liberal than those which were proposed at the conference will have an appreciable effect in lessening the number of offences.

Out of 126 cases taken into court, 75 were decided during the year. Of these 57 cases ended in conviction and 18 in acquittal.

4. It is gratifying to note that there has been a large decrease in every division in the number of forest fires and in the area burnt. There were in all 106 fires and the average area burnt amounted to 35 acres, the corresponding figures for the previous year being 262 and 87. The decrease is attributed to (1) a better inundation, (2) the opening of hitherto closed areas for pasture and (3) the energy and zeal of forest officers.

5. The number of cattle impounded fell to 14,472 from 18,117 in the preceding year. The causes of the decrease have been explained by the Deputy Conservator in Chapter II-3 (c) Protection from cattle.

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6. The results of the attempts made in the Hyderabad division to extend the lac bearing area are reported to be very poor owing principally to an exceedingly hot season. Further experiments are being made in Hyderabad and Jerruck divisions. The results of these will be awaited.

7. The area exploited during the year under report rose from 22,486 acres 13 gunthas to 24,623 acres 35 gunthas and the realizations from Rs. 2,50,979 to Rs. 2,78,979. The average revenue per acre was Rs. 11.33 as against Rs. 11.11 in the preceding year.

8. There was an increase of Rs. 47,762 in the gross forest revenue during the year. This is attributed to (a) great demand for fuel and keen competition, (b) sale of burnt area in the Sukkur and Naushahro divisions, (c) sale of revenue jungles in the Hyderabad division and (d) sale of fuel obtained from thinnings in the Jerruck division. The increase of Rs. 8,873 in the amount of expenditure under "Conservancy and Works" is due to extensive irrigation works having been undertaken during the year. The surplus revenue was Rs. 2,40,985 as against Rs. 2,05,487 in the preceding year.

9. The arrangement made with the Military authorities for the supply of fuel to the Quetta garrison continued to work satisfactorily.

10. Mr. Oliver who was in charge of the Circle throughout the year has administered his circle with success and efficiency. He has displayed marked energy and initiative. Under his guidance the conference which he convened in June and which was the first of its kind ever held in Sind arrived at valuable conclusions on several matters of forest policy and administration, which had long been under consideration.

> W. H. LUCAS, Commissioner in Sind.

M. J. 3-12.

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## FORM No. 7.-Area of Reserved Forests, 1912-1913.

Division.	Civil District or Territory.	Name of Forest,	Area on 1st	t July 1912.	Added during the year.	Exclud- ed or - trans- ferred to other heads.	Area on 3 191	0th June <sup>°</sup> 3.	No. and date of Notification of addition or transfer.	RTMARKS.
	Territory.		Acres.	Equivalent in square miles,	Aores.	Aores.	Acres-	Equiva- lent in square miles.		-
1	2	3	, 4	5	6	7	8	8	10	11
NORTHERN CIRCLE.			<b>▲.</b> g.	Sq.m. a.	A. g.	A. g.	A. g.	6q. m. a.	· · · ·	
Panch Mahala	Panch Ma- báis.	Beserved	212,225 0	331 385	10	28 0	212,200 0	331 360	838 8140 29-1-1913, 12-9-1912.	
Sarat	Surat	Do	• 51,791 0	80 591	<b>'m</b>	-	51,791 0	80 591	<b>100</b> 64	* Mistake in figure - given in previous yes now rectified.
Po, Dángs (leased)	Do. '	Do	211,795 0	330 595		***	211,795 0	830-595		
North Thána ***	.Thána	Do	214,141 0	<b>334 3</b> 81			214,141 0	334 881	500 TFG	
Central Thána ***	Do	Do	236,343 0	869 183	1 0	***	236,341 0	369 184	839 29-1-1913-	)
Sonth Thána **.	Do. "	Do	212,784 0	332 254			212,784 0	332 254		
Kolába …	Kolába	Do	288,336 0	450 336		36 0	288,300 0	450 300	10351 898 12-11-1913 28-1-1913 10218 10621* 6-11-1912, 8-9-1911 & 10319 11-11-1912.	*Rectification which wa not accounted for i 1909.
Ahmedabad	Ahmedabad	Do	13,051 0	20 251		952-0	12,099 0	18 579	<u>8585</u> 18-9-1912,	· .
		Total, Northern Circle.	1,440,416 0	2,250 416	2 0	1,014 0	1,439,404 0	2,249 44		
CENTBAL CIBCLE.			`							
East Khándesh	East Khán- desh.	Reserved	518,576 0	810 176	*182 0	†7,654 O	511,104 0	798 884	<u>     9756                                </u>	
West Khandesh 🚽 🚽	West Khán- desh.	Do,	<u>494,736</u> 0	773 16	<i>د ب</i> ۲۰۰۰	•203 0	494,533 0	772 458	•7335 6-8-1942	2
• North Khándesh •••	Do	Do,	555,766 0	668 246			555,766 0	, 868 246		
South Násik	Nasik and A h m e d- nagar.	Do,	<b>4</b> 87,058 0	761 18	•52 0	† 87 O	487,023 0	760 623	•4617         +7854           144-1913,         20-9-1913,           9781         5218           23-9-1913,         4-6-1913,           5507         7512	
							1	•	5:07         7612           11-6-1912,         10-9-1913,           7613         : 8192           10-8-1912,         31-8-1913,           8441A         \$2230           9-9-1912,         7-10-1912.	
North Násik 🚥	Násik, Ahmed- nagar and Sholápur,	, Do	598,406 O	1,560 <b>8</b>	*16 O	†1,201 <b>O</b>	997,220 0 1		•2125         †8270           4-3-1913,         4-6-1912,           6738         7509           22-7-1913,         10-8-1912,           8017         9523           26-8-1912,         16-10-1912,           123         8615           6-1-1913,         44-1913,           4528A         12-8-1913.	•

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## FORM No.7.-Area of Reserved Foreste, 1912-1913-continued.

Division,	Civil District or	Name of Forest.	Area on ist	Jaly 1912.	Added during the year.	Excluded or trans- ferred to other heads.	Area on 301 1913	th June	No, and date of Notification of addition or transfer.	Remabre.
	Territory.	L (Lepr-	Acres.	Equivalent in square miles.	Åcres.	Acres,	Acres.	Equiva- lent in square miles.		
1	3	3	4	5	6	7	8	'9	10	11
CENTRAL CIRCLE-		, <u></u>	A. g.	8q.m. s.	. g.	A. g.	A. g.	Sq.m. 8.		•
continued. Foona	Poona and Ahmed- negar.	Reserved	456,023 0	712 348	₩4 0	<b>† 139 10</b>	\$5 <b>,8</b> 88 0	<b>712</b> 208	$\begin{array}{c} \bullet 5223 \\ \hline 4-6-1912. \\ \hline 23-5-1912. \\ \hline 23-5-1912. \\ \hline 23-5-1912. \\ \hline 22-7-1912. \\ \hline 23-10 1912. \\ \hline 23-10 1912. \\ \hline 25-3-1913. \\ \hline 25-3-1913. \\ \hline 3524 \\ \hline and \\ \hline 16-4-1913. \\ \hline \end{array}$	
Sitára	. Sátára	Do.	453,079 0	707 539	*690 0		453,789 0	709 9	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
				2				•	$\begin{bmatrix} 10-7-1912, & 30-7-1912, \\ 8066 & 8067 \\ 28-8-1912, & 28-8-1912, \\ 9015 & 11285 \\ 30-9-1912, & 9-12-1912, \\ 11793 & 509 \\ 28-12-1912, & 20-1-1913, \\ 510 & 536 \\ 20-1 1913, & 20-1-1913, \\ 573 & 1071 \\ 21-1-1913, & 4-2-1913, \\ \end{bmatrix}$	
	Do	(Leased)	252 (	0 232			232 0	0 232	3514 3516 14-1-1913 and 11-1-1913	•
			tral 3,963,876		943 0	9,284 (0		-   <u></u>	-	
SOUTHERN CIRCLE.	r				-{			·	-	
Kánars, N. I		Reserved	577,435	0 902 0	(a) 74 (	) (5) 104,768	472,741 0	738 0	(a) 8971 30-9-1912.	(b) Transferred Kanar, W. D.
Kánara, S. C	Do	Do.	554,631	0 868 0	(c) 799 0	(ð) 26 0	555,404 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Kánar <b>s, E. D</b>	Do. Do	Do.	419,597	0 666 0	(e).5 (	) (f) 5,182 0	414,830 0	647 0	(*) 9079	
Kánara, W. ]	D. Do, .	Do		0 691 0	(9) 109,944 (	0 (Å) 3 O	552,078 0	863 0	(h) 6301 and 11495 17-7-1912, and 17-12-1912,	(g) The addition is area transferred f N. D. Kánara and D. Kanara.
Belganm	Belgaum .	• <b>Do.</b>	- <b>4</b> 29,220	0 669 0	(i) <b>14</b> (	) ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	427,674 0	668 0	$\begin{array}{c} \underbrace{(i)\ 7045}_{80\ 7-1912}, & \underbrace{(j)\ 10235}_{5-11-1012,}\\ \underbrace{6997}_{29-7-12,} & \text{and} & \underbrace{142}_{7-1-1913.} \end{array}$	D, Kanara.
	Dhárwár .		<b>310,91</b> 0	0 876 0	(≹) 614 (	(7) 528 0	240,998 Q	877 0	(k)         5719         10388           18-6-1912,         11-11-1912,         2020           23:5         6nd         2020,           11-3-1913,         18-3-1913,         18-3-1913,           (l)         8464,         8782           9-9-1912,         and         23:4-1912,	, ,
Descu destat	m Bijápur Batnágiri.	•	177,261 ( 12,049 (	1 .	2 (	(m) 27 0	177,234 0 ' 12,051 0	277 0 19 0	(m) 10556 18-11-1912,	Correction in total former figures.
		Total, South	ern	-		111,092 0	<u> </u>			

Divisio <b>z.</b> ;	Civil District or Territory.	Name of Forest,	Area on 1st	July 1912.	Added during the year.	Excluded or trans- ferred to other heads.	Ares on 8 19]	0th June 3.	No. and date of Notification of addition or transfer.	BBMARX8.
	_		Acres.	Equivalent in square miles.	Aores.	Acres.	Aores.	Equiva- lent in square miles.	Or clanoppr.	
1	2	3	4	5	6	7	8	9	¥0	11 II
SIND CIRCLE,			A. g.	Sq.m. n.	A. g.	A. g.	A. g.	Sq.m. a.		
dakkur 🖣.	Sukkur	Ding 🚥	1,635 0	2 355		59 0	1,577 0	2 297	No. 2351 of 11-3-1913	+Gained by action o
	}	Other Forests	230,263 0	359 503	+3,801 0	-3,600 0	230,464 0	- 360 64		the river. - Lost by do.
	Upper Sind Frontier.	Forests	51,884 0	81 44	+3,102 0	2,659 0	52,327 0	81, 487	aja 184	
		Total	283,782 0	443 262	6,903,0	6,317 0	284,868 0	444 208		
Nausháhro 🐽	Sukk <b>ar</b>	Forest	82,175 0	50 175	**1,***	498300	82,175 0	50 175	-	+ Gained by action of the river.
	Larkana .	Shahgar Dhan- dhan.	1,207 0	1 567	50	******	1,212 0	1 572	No. 7515 of 10-8-1912.	-Lost by do.
		Other Forests	56,615 0	88 295	+427 0	-495 0	58,547 0	68 227	******	[
	Nawabshab.	Forests	58,677 0	91 437	+3,401 0	5,532 0	56,546 0	68 226		ŀ
		Total	<b>148,674</b> 0	232 194	3,833 0	6,027 0	146,480 0	228, 560		
Hyderabad	Hyderabad.	Narkeli	4,254 0	6 414	63 0	******	4,317 0	6 477	No. 5707 of 18-6-1912.	
	í ·	Nuralabad	2,729 , 0	4 169	138 0	<b></b> .,	2,867 0	4 307	Do.	
		Jamslabad	635 0	0 635	4.0		639 0	0 639	Do.	'
	_	Bhanote No. I .	963 O	1 320	<b>49</b> 0		1,009 0	1 369	Do.	}
		Other Forests	66,719 0	104 159.	*****	1,435 0	65,284 0	102 4	No. 576 of 21-1-1913.	+ Gained by action of
	Karáchi 🕳	Railo Bada	1,342 0	262	· <b>4</b> ·0	*****	1,946 .0	41 003		the river. Lost by do.
		Other Forests	27,280 0	42 400	+\$00 0	1,049 0	26,531 0 49,050 0	41 291 78 410	· · · · · · · · · · · · · · · · · · ·	
	Nawabshah.	Forests	49,861 0	77 581		811 .0				1
		Total	153,780 0	240 180	558.0	3,295_0	151,043 0	236 3		
ferruck	Hyderabad	Husri	171 0	0 171		154 0 *17 0	j		G. B. No. 2780 of 26-3-13.	+ Gained by action of the river.
•		Other Forests	15,683 0	24 323	+2,972 .0 .	-1,020 0	. 17,635 0.	27 355	0 8 8 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	- Lost by do.
	Karáchi	Panwar	<b>4,000 0</b>	6 ,160	+ 959 0		<b>4,</b> 870 . 0 :	7 390	G. R. No. 9497 of 14-10-1912.	• Due to rectification.
		Kacho Surjani.	3,591 0	5 391	•165 0 +247 0	••••••	4,003 0	6 163		1
,		Other Forests	114,620 0	179 -60	7,345 0	-3,436 0	. <b>118,529 0</b>	185 129	******	
	, · ·	Total	138,065 .:0	-215 :465 -	11,599 0	4,627 0	145,037 ,0	.226 397		
	、	Total, Sind Circle.	724,301 0	.1,191 461	22,893 0	20,268 O	726,928 0	1,135 528	,	•
		GBAND TOTAL	s,980,738 0	14,031 598	135,290 0	141,656 0	8,974,372 0	14,022,267		

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FORM No. 7.—Area of Reserved Forests, 1912-1913—concluded.

FOBM No. 7-A.—Area of Protected Forests, 1912-1913.

_					· ·		`			
Division.	Civil District or	Name	Area on lat	July 1912.	Added during the year.	Excluded or traus- forred to other heads.	Area on 30 1913	th June	No. and date of Notification of addition or transfer.	Benark,
<b>`</b>	Territory.	Forest.	Acres.	Equiva- lent in square miles.	Acres.	Acres.	Acres.	Equiva- lent in square miles.	OL PLATRIAL <sup>4</sup>	
1	2	3	4	5	6	7	8	9	10 -	'n
NORTHERN CIROLE.		-	A. g.	8q. m. a.	A. g.	Å. g	A. g.	-Sq.m. a.		ø
Surat Dángs (leased).	Surat	Protected	205,013 0	835 13	 +00410	1	208,013 0	325 13		
North Thána 🛶 💼	Thána 💀	Do. ".	93,499 (	146 59		°≉6 0	93,493 0	146 53	1760 2800 19-2-1912, 19-3-1912, and 9546 15-10-1912.	
Central Thána 🤐	Do	Do	64,527 0	100 527	*419 0	†12 O	64,934 0	101 294	41155 <u>19757</u> 6-2-1912, 22-10-1913, and <u>1002</u> 23-11-1912,	
South Thána	Do	Do	99,116 0	153 196	4044200 4	•2 0	98,114 0	153 194	- - - 	* Transferred for building of Police lines.
Kolúba	Kolába ".	Da	46,747 0	73 27	•11 0	<del>†</del> 58 Ó	<b>46,700 0</b>	, 72 620	*8193 <u>†7290</u> 81-8-1912, <u>5-8-1912,</u> <u>8465</u> 8586 <u>9-9-1912, 18-9-1912,</u>	
•		X							10215A 9733 5-11-1912, 22-1(-1912, an 1533 17-2-191	
CENTRAL	· ·	Total, Northern Circle	1 210 0-0 0	798 162	430 0	78 0	511,254 0	798 534		
CENTRAL CIRCLE, South Násik	Násik and A h m e d- nagar.	Protected	62,938 0	98 218			62,938 0	98 218		
Sátára'	Sátára	Do	658 0	1 18	******	******	658 0	1 18	······ -	
		Total, Central Circle	63,596 0	99 236	*** ***		63,596 0	99 236		
SOUTHERN CIRCLE.						·				
Kénara, N. D. ".	Kánara	Protected	¥,162 ()	14 0	,	2,814 0	6,348 0	19 0	******	Transferred to
Kánara, S. D	Do	Do	69,444 0	109	4 M p co	<b>49890</b> 0	69, <del>444</del> 0	109 0	6018 20-0-1913,	W.D. Kanara.
Kánara, E. D. 🛶	Da	Do	<b>3,</b> 429 0	5 (j	******	20	3,427 0	50	716 34-1-1913.	
Kápara, W. D	Do	Do	3,393 0	50	2,814 0		6,207 0	9 0	••••••	Tansferred from N. D., Kansra
Belgaum 🖦 🗤 ]	Belgaum	Do	6,777	11 0	******	41+10+	6,777 0	11 0		
SIND CIBCLE.		Total, Southein Circle	92,205 0	144 0	2,814 0	2,816 0	92,203 0	144 0	•	•
Sukkur	Jpper Sind j Frontier.	Dickenson	585 0	0 595			585 0	0 585	<b>61 6 1 1</b>	
	1	Cotal, Sind Circle /	585 0	0 585	•••••		585 0	0 585		
The of Montes	G	RAND TOTAL	367,288 0 1	,042,363	3,241 0	2,894 0	667,638 0 1	,043 75		

#### FORM No. 7-B.—Area of Forest Proper, Reserved or Mixed Fuel and Fodder Reserves under the management of the Forest Department for 1912-1913.

Division.	Civil District or Territory-	' Name of Forest.	Area on 191:	lst July 2.	Added during the year.	Exclud- ed or trans- ferred to other heads.	Area on 301 191		No. and date of Notification of addition	Remarks.
•			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	or transfer.	
1	2	8	4	5	. 6	7	8	9	10	11 , 1
NORTHERN CIRCLE.			Acres.	Sq.m. a.	Acres.	Acres.	Acres.	Sq.m. a.		
Panch Mahals	Panch	Reserved	212,225	331 385	1	26	212,200	331 360		
Surat	Maháls. Surat		463,507	724 147	•••		463,507	724 147	No. 7.	
North Thána Central Thána	Do.	Reserved and	214,141 238,894	334 381 373 174	1		214,141 238,895	384 381 373 175		•
South Thána Kolába	1 77 3 63		000 007	341 137 421 527			218,37 <b>7</b> 269,931	841 137 421 491		
CENTRAL CIRCLE.		Total, North- ern Circle .	1,617,111	2,526 471	2	62	1,617,051	2,526 411	• L	-
East Khåndesh	East Khán- desh.	••••••	497,580	777 300	<b>†</b> 182	#2,719 } †7,283 \$	487,760	762 80	† <i>Vide</i> Form No. 7.	*Formerly trans- ferred to Pasturo lands taken into account during this year.
West Khán desh.	West Khán- desh.		346,591	541 351			346,591	<b>5</b> 41 851	*****	
North Khán desh-	- Do	• • • • • •	555,766	868 246			<b>5</b> 55 <b>,7</b> 66	868 246	3	
South Násik	. Násik and Ahmednagar		419,830	655 <b>6</b> 30	<del>†</del> 52	•87	419,795	655 59	5	
North Násik	. Násik, Ah- medna g a r and Sholá-	~	449,917	702 637	†15	•534	<b>449,</b> 398	702 118	3	
Poona	pur.	i 1	268,394	419 234	+4	*139 } §889 }		417 490	) 	S Transforred to Pasture land and handed over to Ro-
Sátára	Sá ra		328,998	514 38	<del> </del> 690	•••	329,688	515 88	3	vonue Department.
SOUTHERN CIRCLE.		Total, Cen-   tral Circle .	2,867,076	4,479 516	943`	<b>11,6</b> 5 <b>1</b>	2,856,368	4,463 48	3	
Kánara N. D	. Kánara		586,598	916	. 74	107,581	479,091	749	***,	
Kánara S. D	. Do	Protected.	624,075	975	799	26	624,848	976	.,	
Kánara E. D	. Do		422,935	661	5	5,184	417,756	- 653	****	•
Kánara W. D	. Do		445,52 <b>6</b>	696	112,757	3	558,2 <b>8</b> 0	872	•••••	
Belgaum	Belgaum		400,984	627	14	560	400,438	626		
Dhárwár	Dhárwár		142,782	223	614		143,396	224		
Bijápar	Bijápur		139,537	218		27	139,510	218 19	••••••	
Ratnágiri	Ratnágiri	Total, South-	12,049	19	2		12,051	4.:37		
SIND CIRCLE		ern Circle	2,774,486	4,335	114,265	113,381	2,775,370		-	
Sakkur	Sukkur and Upper Sind	Forests	284,367	444 207	<b>*</b> 6, <del>5</del> 03	<b>*</b> 6,317	284,953	445 153	• Vide Form No. 7.	
Nausháhro	Frontier. Sukkur, Lárkána and Náwab-		148,674	232 194	<b>#</b> 3,833	* 6,027	146,480	228 560		
Hyderabad	shah. Hyderabad, Karáchi and	Do	153,780	240 180	*558	* 3,295	<b>151,043</b>	236 3		
Jerruck	Nuwab hah, Hyder a b a d	Do	138,065	215 465	<b>* 11,599</b>	• 4,627	141,037	226 397	•••••	-
	and Karáchi.	Total, Sind Circle	724,886	1,132 406	22,893	20,266	727,513	1,136 473		
,	1	GRAND TOTAL	7,983,559	12,474 113	138,103	145,360	7,976,302	12,463 292		

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Division.	Civil District or Territory.	Name of Forest.	Area on 1912	lst July		Added during the year.	Exclud- ed or trans- ferred to other heads.	Area on 301 191	3. 1	No. and date of Notification of addition	Remarks.
			Acres,	Equivation in square in sq	18re	Acres.	Acres.	Acres.	Equivalent in square miles.	or transfer.	
1	2	3	4	5		6	· 7	8	9	10	11
NORTHERN CIRCLE.			Acres.	Sq.m.	8.	Acres.	Acres.	Acres.	Sq.m. a.		÷.,
Surat	Surat	Reserved	8,092	12	412	•••		8,092	12 412		Vide remarks i Form No. 7.
North Thána	Thána	Protected	93,499	146	59	`` ***	· 6	93,493	146 53	Vide Form	
Central Thána	Do	Do	61,976	96	536	419	12	62,383	97 303	No. 7 <u>A</u> . Do.	
South Thána	Do	Do	92,473	144	813	***	2	92,471	144 311	Do.	
Kolába	Kolába	Do	65,116	101	476	ìı	58	65,069	101 429	Do.	
Ahmedabad	Ahmedabad.	Reserved	13,051	20	251	•••	952	12,099	18 579	Vide Form 0. 7.	
CENTRAL CIRCLE.	- -	Total, Northern Circle	334,207	522	127	430	1,030	333,607	521 167		
East Khándesh	East Khán- desh.	******	20,996	32	516	<b>*</b> 2,719	†371	23,344	36 304	t Vide Form No. 7.	•Formerly tran ferred from Fore Proper lands take
West Khá <b>n</b> desh	West Khén-	•••••	149,145	231	305	. •••	†203	147,942	231 102	· · · ·	into account du ing this year.
North Khandesh .	Do		******	•	<b>)</b>	•••	•••	•••••			
South Násik	Násik and Ahmednagar,	*****	130,166	203	<b>2</b> 46	•••		130,166	203 246		-
North Násik 🐪	Ahmednaga r and Sholá- pur.	******	548,489	857	: 9	•••	<b>†66</b> 7	- E47,822	855 622	100	
Poona			187 <b>,630</b>	293	110	\$888	•••	188,518	294 358	Vide Form	STransferred fro Forest Prop
žátara	Sátára		124,971	105	171						lands and hand over to Revent Department.
		Total, Central Circle	1,160,397	1,813	.77		1.941		195 171		-
SOUTHERN CIRCLE.							1,241	1,162,763	1,816 523		
Belgann	Belgaum	449149	34,012	53	0	•••		34,01	53 0	•••	
Dhárwár	Dhárwár	***	98,128	153	0	•••	526	97,602	152 0		:
Bijápur	Bijápu <del>r</del>		37,72	59	0	·		37,724	59 0	•••	;  :
		Total, Southern Circle	169,864	265	0	•••	526	169,338	264 0		•
SIND CIRCLE.		Nil.				Nil.		1	:		· • • · ·
	j	GRAND TOTAL .	1,664,468	2,600,2	204	4,037	2,797	1,665,708	2,602 50		, , , ,

## FORM No. 7-C .- Grea of Fodder Reserves and Pasture Lands under the management of the Revenue Department for 1912-1913.

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6 <u></u>		In charge of	the Forest Dep	artment.		I:	n charge of the Rev	cnue Departme	nt		<u>_</u>	
Division.		Reserved Forest.		Protect	ed Forest.		Reserved Fores	st.	Protected Forest.	Total I Area		Remarks.
• •	Forest proper.	Pasture reserves,	Fuel and Fodder reserves.	Forest proper.	Pasture reserves,	Forest proper.	Pasture reserves.	Fuel and Fodder reserves	Pasture reserves.			
	- 331 860		Šq. m. a.	Sq.m. a.	Sq. m.	Sq.m. a.	Sq.m. a.	Sq.m. a.	Sq.m. a.	Sq.m. 33	860	
North Thána Central Thána South Thána Kolába Ahmedabad	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	••••• •••••	<b>3 4</b> 49 <b>3 4</b> 49	325 <b>13</b> 3 631 8 523  337 527	*** *** *** *** *** ***	••• ••• ••• •••	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c}\\\\\\ 18 579\\ \overline{18} 579 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	736 480 470 485 523 18 3,047	559 434 478 448 280 579 578	
CENTRAL CIRCLE.			:			·				· ·		
West Khándesh North Khándesh South Násik North Násik Poona Sátára	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	·····, ·····, ·····,	131 <sup></sup> 27  19 <sup></sup> 621  151 8	11 <sup>11</sup> 100 11 <sup>11</sup> 100 1118	······	    	$ \begin{array}{r} 36 & 304 \\ 231 & 102 \\ \hline 115 & 87 \\ 527 & 358 \\ 294 & 358 \\ 189 & 516 \\ \hline 1,394 & 445 \\ \end{array} $	$ \begin{array}{c}                                     $	87 118   87 118	798 772 868 859 1,558 712 710 6,274	884 453 246 201 100 208 259 571	
SOUTHERN CIRCLE			\	{								
Kánara, Southern Kánara, Eastern Kánara, Western Belgaum Dhárwár Bijánur	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		  10 0 4 0  14 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10 5 10 	1 0 	 50 0 152 0 59 0 	3 0  	···· ··· ··· ··· ··· ···	748 976 653 873 679 376 277 19 4 601	0 0 0 0 0 0 0 0	
Sukkur	444 20			0 585					•••	445	159	
Naushahro Hyderabad Jerruck Total	228         56           236         2            226         39	0 3	•••	••••	·····	•••	·····	•••	 	228 236 226	560 3 397	,
	1,135 52 11,174 52		168 457	$ \begin{array}{r} 0 & 585 \\ \hline 469 & 590 \end{array} $	25	<u> </u>	1,697 26	 356 589	548 125	· · ·	473 342	

ABSTRACT OF FORMS NOS. 7, 7-A, 7-B and 7-C for 1912-13.

APPENDICES.

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FORM NO	<u>8</u> _	-Statement	shomina	the	Progress	madein	. and t	he
TORM INC	). 0	-Dialement	Showing	0110	<b>I</b> 1091000	maar in	, wiew v	100

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				ARBAS FINALI	Y SETTLED	DURING THE Y	BAR.	
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	Name of Forest settled.	Area in square miles.	Expenditure during the ye finally s	e incurred ear on areas settled.	Entire cos per squar mile of areas finally settled
•			to the 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 Forests.	3			` 			1	
Fanch Maháls	Panch Maháls	332			•••	***	•••	
Surat	Surat	68	•••	****	1=1	346		
North Thána 🛛 🔐	Thána	335		***	•••	.ap	<b>,</b>	••••
Central Thána	Do	869	•••	444.44	•••	***	•••	
South Thána	Do	332	•••	4=0700	•••	*-*	<b>.</b> .	
Kolába	Kolába	451	<u>10351</u> 12-11-12. 1	Gharapuri	•000027	Pa <b>b</b>	•••	
Protected Forests.	Total	1,887	•••	•••••	•000027		••••	
	Thána	146	•••	•••·		•••		
Central do	Do	101 153	•••	*****		•••	•••	
South do Solaba	Do Kolába	73	8193 31-8-12.	*****	•017	***	••••	•••
	Total	473	••••	••••	•017	•••		
	Total, Northern Circle	2,360			·017027	•••		
CENTRAL								-
CIRCLE.							1	
Reserved Forests. East Khándesh	East Khándesh .	810	9756 22-10-12.	Meharun	182 640		•••	•••
West Khándesh	West Khándesh .	773	•••	. Pelbay	• •••	***		
North Khandesh	North Khándesb.	868	•••	*****	•••	***	•••	100
South Násik	South Násik	761	4617 7454 14-5-12 20-8-12 8781 ,23-9-12	}	52 640		<i></i>	•••
North Násik	North Násik	1,560	21-5 4-3-13	Hiswalden	<u>15</u> 540	•••	•••	100
Рооца ••• •••	Poona	713	<u>5223</u> 4-6-12	Ambaore			•••	
atára	Sátára	708	*		1 50 640	***		
	Total	6,193			$1\frac{303}{640}$			
Protected Forests. Sonth Násik	South Násik	98	••••	•••••			***	•••
	Sátára	1	•••		•••		•=•	•••
	Total	99	***	····•	•••	***		
	Total, Central	<del></del>	·	~	1 <sup>303</sup> 640			
	Circle \ •••	6,292	<b>`</b> `		640	•••	***	

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## Expenditure incurred on, Forest Settlements during 1912-1913.

AREAS UN	DEBGOING SETTLE	MENT.			-		
t of the year.	Taken in hand the year.	during	Expenditur during the areas und Settler	e ycar on dergoing	:	Remarks.	s.
Area in square miles.	Name of Tract.	Area in square miles.	In Forest Accounts.	In other Accounts.			
11	12	13	34	15		16	
	<u></u>		Rs.	Rs.			
•••	<b>006140</b>	••• -	<b>107</b>	-10			
•••	*****	<b>618</b>		•••			
	*****	·					
	484*** 1	468	••• ,	- ***			
	80 17 4 8	***					
132 640	*****	18 640	1,518	•=•			
132 640		18 640	1,518				
	******			•••			
•••	824+++		***	••••		-	
	*****		-		-		
<u>132</u> 640	•••••	18	1,518				
							,
3 <sup>271</sup> 840	405100			***			
<u>- 334</u> 640	******	<u>64</u> 640		***			1
<u>6</u> 640		•••	,	•••			
- <u>16</u> - <u>640</u> .	*****	73 640	•••	•••	<u>4091</u>	4092 20-4-13	<u>521(</u> <u>4-6-1</u>
$2\frac{117}{640}$	544* <i>80</i>	<u>8</u> 640	•••	*97	29-4-12 5217 and	5217A 4-6-12	63: 8-7
<u>234</u> 640	******	72 640		••••	6936 9-7-12	<u>6839</u> <u>9-7-12</u>	63 10-7-
173 640	*****	<u>878</u> 640		• • • •	6374A. 10-7-12	6874B 10-7-12	7041 80-7-1
	¢	, <u>589</u> 640	•••		8066 23-8-12	8067 28-8-12	9015 80-9-1
		100			11285 9-12-12	11798 28-12-12	509 20-1-
· · ·	e # 6 7 # 8	•••		<u> </u>	510	<u> </u>	536
			•••	•••	80-1-13 1071	21-1-13 3514	20-1-1
6 <u>510</u> 640		<u>589</u> 640			<u>1071</u> <u>*-2-18</u>	3514 14-4-18	14-4-1

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

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X		-		AREAS FINALLI	SETTLED D	UBING THE YE	AB.	1
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 final sanction	Name of Forest settled.	Area in square miles.	during the	re incurred year on areas settled.	Entire cos per squar mile of areas finally
		the year.	to the Settlement.	L.	mines	In Forest Accounts.	In other Accounts,	settled during the year.
1	2	3	4	5	6	7	8	9
SOUTHEBN CIRCLE.		Sq. m.				Bs.	Bs.	Rs.
Reserved Forests.					}	ļ	Į	
Kánara, Northern	Kinara	902	<u>8971</u> 30-9-12	Haliyal	-12	•••	•••	•••
<b>D</b>	1	ſ	4146, 6337A, 26-4 12 9-7-12 7588 13-8-12	Sirsi	1-19	•••		•••
Do. Southern	Do	866 -	<u>6337</u> 9-7-12	Siddapur	-02	468		•••
		l	8972, 10001, 80-9-12 28-10-12	Bhatkal	•04	***		***
Do Eastern	Do	656	8973 30-9-12	Yellapur	•01			•••
Dc. Western	Do	691	· •••	<b>` •••</b> •••	- , •••	***		
Belgaum	Belgaum	669	7045 30-7-12	Khánápur	·02	•••	*46	
Dhárwár	Dhárwár	376 {	10388, 2620, 12-11-12 18-3-13 2355 11-3-13	Dhárwár	•92			
19 - A.		L L	5719 18-6-12	Kalghátgi	•04		•••	•••
	Bijápu <del>r</del>	277	•••	*****	***	<b></b>	••••	
	Ratnágiri	19			***	•	•••	
	Total, Reserved Forest	4,456	•••	******	2.36			-]
Protected Forests.	. ]		1					
	Kánara	14	••••	***	•••	•••	*0g-	•••
Do. Eastern	Do	109	•••	••••	***		***	- 149
Dc. Western	Do	5	•••	******	***	•••	•••	+++
	Belgaum	11	•••	******	•••	***		•••
-	Total, Protected Forest	144	、	••••••		***	***	++++
	-					***	***	* • •
	Tctal, Southern Circle	<b>4,</b> 600	• = 4	******	2.86	•••		3

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## Expenditure incurred on, Forest Settlements during 1912-1913-continued.

	ABEAS	UNDERGOING SETTLE			<u>.</u> .	,	
At commencement of	the year.	Taken in hand the year.	during	during t	re incurred the year indergoing nent.	Remarks.	
Name of Tract.	Area in square miles.	Name of Tract.	Arca in square miles.	In Forest Accounts.	In other Accounts.		
, <b>10</b> .		12	13	14	15	- 16	
•		-		Rs.	Ks.	,	
4 wish	, nati			•••			
689	5. <b>86</b>				•••		
-58810 <del>0</del>		488	***			>26 acres and 9 gunthás have be disforested during the year.	
- a u o d & B	***	*****	400	· · · · · · · · · · · · · · · · · · ·	•••		
<b>«8****</b>		*****	•••		•	5 acres and 3 gunthás were d forested during the year.	
- 001	-+2				4.5.3	3 acres and 9 gunthás were disfores during the year.	
, 446144				•••	~~.	560 acres and 24 gunthás were d forested during the year.	
	- 	•••6***		•••			
•••••••	•••		•••	•••		525 acres and 34 gunthas were d forested during the year.	
	••••	******	•••		•••	26 acres and 39 gunthás were d forested during the year.	
•••••	•••						
1 200000	•••	******		<u> </u>			
					•••	•	
		, togedb	***			1 guntha has been disforested durin	
****** ******	1		***	•	• • •	the year. 2 acres and 8 gunthás have been di forested during the year.	
	***	*****	•••	•••	96J	· · · ·	
		••••	•••	•••		-	
	***			•••			
			·				

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

		~~		ARBAS FINALLY	SETTLED D	UBING THE Y	SAB•	<u> </u>
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 final sanction	Name of Forest settled.	Area in square miles.	Expenditu during the y finally	re incurred evr on areas settled.	Entire co per squar mile of areas finally
~		the year.	to the Settlement.		miles.	In Forest Accounts.	In other Accounts.	settled during the year
1	2	3	4	б	6	7	8	9
SIND CIRCLE.		Sq. m.				Rs.	Rs.	Rs.
Sakkar	Sukkur and Upper Sind Frontier.	444		******	, ••••	•••		
			· .		4		(	
	. Total	414	•••		(	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Nausháhro	Sukkur, Lárkána and Nawabshah.	<b>2</b> 32	No. 7515 10-8-12	Shahgar Dhandhon Forest.	0 <u>5</u> ,			
				, <b>v</b>			N.	
	Total	232			$0 \frac{5}{640}$	•==	•	
Byderabad	Hyderabad, Karáchi and Nawabshah.	240	No. <u>5707</u> 18-6-12	Muralabad Forest	0 138 6±0		***	
				Jamolabad Forest	0 4 640			
		•	1	Bhanote No. 1 Forest.	$0 \frac{49}{6*0}$	• •••	•••	
	1			Nurketi Forest	$0 \frac{63}{640}$	•••	444 _	•••
			No. <u>576</u> 21-1-13	Railo Bado Forest .	0 4 640	-84	***	
	Total	240	•••		0 258 640	•••		
Serracky.	Karáchi a n d Hyderabad.	216	No. 5180 80-5-11	Panwhar Forest	$0 \frac{11}{640}$	***	r,	
	Total	216		*****	0 11 640	•••	· •••	· · · · ·
	Total, Sind Circle	1,132		•••••	0 274 640	•••	•••	
	GRAND TOTAL	14,384	***		4.278		***	

## Expenditure incurred on, Forest Settlements during 1912-1913-concluded.

· · · · · · · · · · · · · · · · · · ·	ARBA	UNDEBGOING SETT	LEMENT,		· · · · · · · · · · · · · · · · · · ·			
At commencement of	the year.	Taken in ha the ya	nd during ar,	Expendit during areas v Sett	ure incurred the year on indergoing ilement.		Remarks.	
Name of Tract.	Area in square miles.	Name of Tract,	Area in square miles.	In Fores Accounts	In other Accounts.		- 	
10	11	12	13	14	15		16	
Ghotki Táluk <b>s</b>	0 565 640	Sukkur Téluks	··· 8 120 640	Rs.	Rs.			
Shikárpur Táluka	2 140 640	Shikárpur Tslaka	- 8 <sup>436</sup> / <sub>640</sub>	•   •••				
		   Garhi Yasin Taluk	a. $0 \frac{590}{640}$	••••	•••			
	)	Rohri Táluka	1 <sup>168</sup> / <sub>640</sub>		e ede		• . •	
•		Pano Akil Táluká-	24 <sup>354</sup> 640		·			,
х. - С С С С С С С С		Ghotki Taluka	11 <sup>404</sup> / <sub>640</sub>			Υ.		ſ
•••••	3 65 640		50 <sup>152</sup> / <sub>640</sub>		•••			
Labdarya Táluka	2 <u>306</u> 640	***		•			,	• •
Garhi Yasin Táluka 🛄	0 <u>251</u>	a*8 <del>88</del>	·		•••			
Sehwán Táluka 🛛 🗤	0 5 840		***			.:		
•••••	2 562 640	***	•	***	•••		,	
Hála Táluka . •••	Q 175 640		•••	•==	, 			
Do	0 <u>254</u> 640	•••••	•••	•••				
Iyderabad Táluka	0 <u>82</u> 640	******	· •••	***	•••			
Kotri Táluka 🔐 🔐	0 4/640	•		·				
	* <b>***</b>	•••••	•••					
•••••	0 465 640		•••	•••				
ıjawal Táluk <b>a</b>	3 849 640		(	•••	]			
	3 <sup>340</sup> / <sub>640</sub>	****	•••	•••	•••			
•••   :	$10 \frac{152}{640}$	•••••	50 <sup>162</sup> 640		•••			
	17 154	•••••	51 <sup>119</sup> / <sub>640</sub>	1,518				

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FORM No. 9.—Record of Demarcation and Maintenance of Boundaries, 1912-1913.

Division.	Length of Boundaries artificially demarcated	Length of previously existing Boundaries	Length of previously existing Boundaries	Total length of artificially marked Boundaries	Length of Boundaries still to be demarcated	Length of natural Boundaries not requir-	Total length of Boundaries at the close	Expenditure o during ti	N DEMABOATION IIS YEAR.	Remarks.
	during the Jear.	Boundaries repaired.	repaired.	at the close of the year.	at the close of the year.	ing artificial marks.	of the year.	On new work.	On repairs.	
1	2	8	4	5	6	7	6	9	10	11
NORTHERN CIRCLE.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	· Rs. a. p.	Rs. a. p.	
Panch Mabáls	944110	2	948,	951	- 7	. 101	1,059	******	38 0 0	
Burst	•••••	835	` •···••	. 835	<b>******</b>	103	838*		727 0 0	• The increase of about 4 miles is due to revision survey of Dangs boun- dary,
North Tháns	****	.3	965	. 968		19	987	******	72 0 0	
Central Thána 🛛 🛄	<b>14</b> 1111 _	<b>786</b> 48g	675	875	#34 <b>#75</b>	114	989		784 0 0	
South Thâna 👞	***.19		897	. 897	******	. 59	956	10 0 0	180 0 0	Besides this, Rs. 29-12-0 were spent in connec- tion with demarcating the boundary line of Tansa lake; will be re- covered from Munici- pality.
Koláb <b>a</b>	170	1,248		1,413	<b>4</b> 93†	72	1,978	1,961 0 0	64 <b>27 0</b> 0	The increase is due to the actual calculation made.
Total, Northern Circle …	170	2,083	3,686	5,939	500	468	6,907	1,971 0 0	, 2,948 0 0	
CENTRAL CIRCLE.					•		-		-	
East Khändesh 🛄	*****	2,148	******	2,143	<b>5</b> 86 1 1 4	107	. <b>2,</b> 255	*** ***	74 0 0	
West Khándesh 🛛 🔐	•••••	769	41, <b>400</b>	769		67	836		1 234 0 0	
North Khándesh 🔐	******	309	8998+14	309	<b>990</b> yee	52	. 361	tód pa	169 0 0	
North Násik	48	1,519	138	<b>1,</b> 735	<b>4</b> 3	116	1,694	391 0 0	268 0 0	
South Násik	52	···	2,915	3,997	935	· 575	4,507	896 0 0	164 0 0	
Poona 🖌 🐜	43	an es a	2,620	2,663	<sup>·</sup> 51	246	2,960	447 0 0	890 0 0	
Sátárs "	******	156	5,116	5,272	67	100	б,13 <del>9</del>	···,,,	498 O A	
Total, Central Circle	143	4,931	10,819	15,893	1,096	1,263	18,252	1,234 0 0	1,817 0 0	Total expenditure, Rs. 3,051.
SOUTHERN CIECLE.						·	<i>±</i>			
Kánars, Northern	<b></b>		1,433	1,433	29	92	, 1,554	******	848 see	Rs. 142 nnder A-VIIIa not included in this return represents the pay and travelling allowance of the Surveyor engaged in demarcating coupes.
Do. Southern 👞	87	*****	4,512	4,599	***** 1969.	112	4,711	307 0 0	800	the Surveyor engaged in demarcating coupes. Bs. 694 cost of establish-
Do. Eastern	****	•	1,674	1,578	3	48	1,629	84× 889	1700	Rs. 604 cost of establish- ment is excluded.
	-		-	,	, , ,		•			Pay and travel- ling a 1 low. ance of Sur- veyor 891 Clearing interior lines 8 Marking 182' strip adjoin- ing cnltivation and Bettas 130

N.B.-Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of Sub-division, such as blocks, compartments, coupes.

1

<u></u>	<u> </u>		·				9			
Division.	Length of Boundaries artificially demarcated during the	Length of previously existing Boundaries repaired,	Length of previously existing Boundaries not	Total length of artificially marked Boundaries at the close	Length of Boundaries still to be demarcated at the close	Length of natural Boundaries not requir- ing artificial	Total length of Boundaries at the close	EXPENDITURE OF DURING T	DEMARCATION HE YEAR.	Remarks,
N	year.	reballer,	repaired.	of the year.	of the year.	marks.	of the year.	On new work.	On repairs.	·
1	. 2	8	4	б	6	7	8	9	10	11
SOUTHERN CIRCLE-concluded.	Miles,	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Rs. s. p.	Ra. a. p.	
Kápara, Western	) 	14	1,603	1,617	******	158	1,775		0 0	Rs. 6 on account of work- ing plans charges, Rs. 15 on account of advertise- ment charges and Rs. 2 for carriage of survey
Belgaum	10	3	1,746	1,759	130	140	3,029	130 0 0	22 0 0	ment charges and Rs. 2 for carriage of survey instruments not in- cluded in this roturn. Pay, travelling allowance of Surveyor and contin- gencies Hs. 536 not in- cluded in this return.
Dbárwár	<sup>1</sup> 1	602	44	657	54	4	715	8700	30 0 0	,
Bijápur «.	~ 2	19	899	920	- 5	25	950	2 0 40	27 0 0	
Esinágiri	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******	140	140	tog van	69	209	*** ***		
Total, Southern Circle	110	642	· 11,951	12,703	221	618	13,572	476 0 0	110 0 0	
SIND CIRCLE. Sukker	' Miles. ft. 12 1,947 1	Miles. ft, 928 3,544	Miles. ft.	Miles. ft. 911 - 211	Miles, ft.	Miles. ft. 188 181	Miles. ft. 1,129 392	1	Aga 199	
Naushábro •	1 <b>3,9</b> 60	501 4,188	148744	503 2,868	0,114	<b>83 2,39</b> 3	586 - 5,264	<b></b>		
Hyderabad	2 4,000	342. 5,044	1 - 111 -	345 8,764	505300 ,	183 4,639	-529 <b>8,32</b> 3			
Jerruck	4 0	294 1,693		298 1,693		188 5,225	487 1,683	•	******	
Total, Sind Circle	20 4,627	2,067 3,909		2,088 8,256	014 ord	644 2,081	2,733 57			
- GRAND TOTAL	443 4,627	9,723 3,609	20,456	36,62 <b>3 8</b> ,256	1,817	3,028 2,031	41,484 57	3,691 0 0	4,875 5 0	
			×						(	

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FORM No. 9.—Record of Demarcation and Maintenance of Boundaries, 1912-1913—concluded.

## FOBM No. 10.-Statement of Forest Areas Surveyed and

	1			
AREAS	SURVEYED	AND	UNDER	SURVEY

	SPI	IOIAL S	UBVEX8-	-MAPS O	N 4" SCALH OB OF FORBET SU	OVRE, BY S	ORVEY	037			DINARY	. 1901/0	DED IN DIS	STRICT SURV	'BYS.	
			ith Inte			BOUNDA		<u> </u>		<u> </u>		ior Deta		,		
Division.		· · ·										Without		Boundary Survey		1
	With of Gr Sta	owing	With detai Growing	ls of	Total cost.	Previous.	Of the year.	Total Cost.	of Gi Ste	details rowing ook.	deta Gro	ils of wing ock.	Tota] Cost.	Previous.	Of the	
		Of the year.	Pre- vious.	Of the year.			J.Car.		Pre- vious,	Of the year.	Pre- vious.	Of the year.	0030.		year.	Cost
1	2	3	4	5	8	7	8	9	10	11	, 12	13	14	15	16	17
NORTHEEN CIRCLE.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs. a. p.	Sq. m.	8q. m.	Rs.	Sq.m.	Sq. m.	Sq. m.	Sq. m.	Rø,	Sq. m.	Sq. m.	R <sub>B.</sub>
Northern Circle					•••• • • •	******		•••	•••				*****			
		·		·			Ì							-		
CENTRAL CIRCLE.																
Reserved Forests.														<b>(</b> ,	ł	( ·
East Khändesh	***		229		******	,***. <b>*</b> *		•••	•••	***	497		******			
West Khandesh North Khandesh			676		******		·		•••	•••	1			96		
o			645	•••	*****	453448	···	***	•••					-		
South Nasik	;•• ·		2,011		******	*****		•••	•••				•		1	Í
Poona			525				{						******		***	
Sátára			530			*****		•••	•••	•••			******			
,				·	******	•••••		***	•••	•••	•••		4=4+10	204	•••	
Total			4,616		309 - 14	••••••	,	•••			498			96	·	
Protected Forests.																
	{		Ì				{			1	ł					
South Násik		}	87		#******									1	]	
North Násik Bátára		P	·			*****					•••		******	••• <u>r</u>	·	***
Batari		••• 	1	·	••••••• `	******		••,	•••				1991aa			
Total	•••	 	83	•••	••••••			•••	•••					· · · ·	 	 
Total, Central Circle .			4,704			******			***	•	<b>4</b> 98 <sup>-</sup>		******	96		
SOUTHERN CIRCLE. Kánara — —			, •	[ ]				•								
Dalaa		•••	•••	•••	•••••	*****				•••			-			
Dhárwar	, ***	***	. +•9		480.00	••• ••	,,				,		240 00U			•••
Bijápur	***				à,	84 <b>9</b> 964				•••			******		•••	***
Ratnázíri 🔐	•••		•••		885.50 <b>0</b>	******	/ 114	•••				]	*** ***	•••	•••	•••
Total, Southern						******	•		**1	•••	•••		******		***	
Circle		•••		••• 	*****	******	,		. •••	•••	•••		******			***
	(No re	tarn)									,				-	
GEAR TOTAL			4,704		*** 344	*****	•••				498		*****	96		

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## under Survey during the year 1912-1913.

							<u> </u>			······································	COST		;
	<u>.</u>		COMPILICO	L OFFIC	<u> </u>	dary Sur		Areas remain-	Total Forest area at end of				•
4-in0		Ur	ıdor ich.					ing to be taken under Survey.	the year	Previous. Of the year. (all Sur to end		Butire cost of fall Surveys to end of the year.	Rrhauks.
Pro-	Of the year.	Рге-	Of the	Total Cost.	Pre- vious.	Of the year.	Total Cost.						
18		20	21	23		24	25	26	27			80	31
q. m.	Sq. m.	Sq. m	Sq. m.	Rs.	Sq. m.	Sq. m.	Bs.	Sq.m.	Sq. m.	Bs. a. p.	Rs. a. p.	Bs. a. p.	······································
•••		•••		•••					3,048	······		·····	•
	•										· · · ·		
	. <i>1</i>			• •							<b>.</b> .		•
•••	•••	• • •		***				73	799 778	24,084 0 0 63,694 0 0		24,084 0 0 63,691 0 0	
				•••			- *** - ***	223	868	1,371 0 0		1,371 0 0	
				***	Ì			308	{ <sup>761</sup>	2,40,589 0 0		2,40,58) 0 0	
	•••				•••			187	L 1,558 712	) 1,11,293 0 0		1,11,290 0 0	
	. **	***		•••	)			179	709	63,569 0 0	+4 = 077	62,569 0 0	
		•••						970	6,180	5,03,597 0 0 *7,085 0 0	•	5,03,597 0 0 7,085 0 0	
						·		-		5,10,683 0 0	• • •	5,10,682 0 0	
								11	98			. 15 .64	-
**3	101			434			•••	<b>41</b>	1				
•••	•••			_•••	•••	····		-	·		-	.	•
•••	•••						***	11	99	i		· · · · · · · · · · · · · · · · · · ·	•
- <u></u> 							, 464	981	6,279				
						est			3,250	8,79,404 0 0		3,79,404 0 0	-
•••	104 632	••••	•••				**1		679	57,104 0 0		57,10 <b>4</b> 0 0 26,095 0 0	
***							•••		376 277	26,095 0 0	******	20,000 0 0	
•••	4.94			•••	***		***		277 19	581 0 0-	****	<u>591 0 0</u>	•
	 				 		•••		4,601	4,63,184 0 0		4,63,184 0 0	
 			·			· · ·			1,137				
				¦				981	15,065	9,73,868 0 0		9,73,668 0 0	

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FOBM No. 11.—Progress made in Working Plans, 1912-1913.

		TOPH .		11097000	maat in	WORKing .		· · · ·	, 
Division.	WORKING DEEN SANC	OB WHICH PLANS HAVE DIONED BY VEENMENT.	WORKING	PR WHICH PLANS ARE OMPILED.	Areas for which Working Plans have	Areas for which Working Plans are	Total Forest area as in Form	Entire cost per square mile of	Remarks.
	At com- mencement of the year.		At com- mencement of the year.	Taken in hand dur- ing the year.	still to be taken in hand.	not at present required.(2)	No. 7	Working Plans completed.	
1	2	8	4	5	6	7	8	9	10
NORTHERN CIRCLE	Eq. m.	Eq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs. a. p.	
Panah Mahila	000						332		
Surat	. 68	***	•••	<b></b> 159	<b>4</b> 97	••••	724	44 0 0	
Central Thána	. 369	•••	•••	•••	•••	4	335 373		•
Sonth Thána Kolába		•••	***	***	1	9 85	341 450		•
•								,	
Total, Northern Circle	1,850	•••	•••	159	498	48	2,555*	44 0 0	• This is exclusive of the area in: charge of the Revenue Depart-
	1								ment, with the exception of
	•		~				i -		29 sq. miles in the Kolába Division,
					-				
		, ·							
CENTRAL CIRCLE.									
East Khándesh	. 699	•••	52	. 8		3	762	· · ·	
West Khandesh North Khándesh	1	•••	96	•••	162	211	542	***	
North Násik†	467		***	64) 64)	***	304 235	868 702	***	
Poons	189	100	•••			172 229	656 418	23 0 0	
Sátára	. 64	•••		***.	100	851	515	•••	• ·
		· · · · · · · · · · · · · · · · · · ·		!					
Total, Central Circle	2,451	89	148	8	262	1,505	4,463+	23 0 0	+ This is exclusive of the arca in
								· ·	charge of the Revenue Depart- ment.
<i>,</i>									
SOUTHERN CIRCLE.								• • •	
Kánara, Northern Kánara, Southern			. 9	•••		308	748	372 0 0	
Kanara, Eastern	363	***	134 36	 13	98 63	705	976 653	189 0 0	
Kánara, Western Belgaum	1	77	• 149	302	254	855	873	194 0 0	
Dhárwár Bijápur		***	•••	130	•••	46 199	679 376	96 U O 39 O O	
Ratnágiri		•••	***	***	277 19	•••	277	***	Υ
Total, Southern Cirgle	1,249	77	328	445	711	1,791	4,601		$\rho_{\rm eff} = 1$
SIND CIRCLE.	Sq. m. ac.	Sq. m. ac.	Sq. m. ac.	Sq. m. ac.	Sa				
Salden					Sq. m. ac.	оч. <b></b>	.Sq. m. ac,	Rs. a, p.	
Sukkur	420 468	***	•••	•••	+0 585	\$22 207	445 153	22 5 6	* New reservation notified under section 19 of the Indian Forest
· · · · · · · · · · · · · · · · · · ·		•••	•••	•••	*1 127	‡25 257	228 560	18 11 9	Act. + Area of protected forests.
Hyderabad	225 142	•••			*7 236	13 265	236 3	37 13 0	1 Newly acquired hash
	! 								<sup>‡</sup> Newly acquired kachas which, though handed over to the For-
Jerruck	183 214								est Department, have not been notified yet as Reserved Forests.
•••		***	•••	***	*32 262	<b>‡10 561</b>	226 397	27 15 1	
Total, Sind Circle	1,031 360		•••	••••	49.100			/ 	
GRAND TOTAL	6,581 360	166	476		43 103	62 10	1,136 473		
			- <del></del> 70	612	1,514 103	3,406 10	12,755 473§	·•••	S This is exclusive of the areas in
							•	ļ	ment in the Northern and G
		,	(a) A 7405	and da	<u>t</u>	be entered in d	j		tral Circles, as stated above.

(a) Areas intered in column 7 should not be entered in column 6.

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# FORM No. 12.

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		NEW WOR	CE UNDERTAKEN DUBING T	ike ¥e <b>42.</b> 				
Division.	Baildings.		Boad	is and Paths.		Other Works.	Total	
	Description of Building.	Expenditure incurred.	Description of Road or Path.	Length of Road or Path.	Expenditure incurred.	Expenditure incurred.	Expended on New Works	
1	2	3	4	5	6	7	8	
	, NOBTHERN CIECLE.	Rs,	· · · · ·	Miles.	Rs. a. p.	Rs. a. p.	Rs. a.	
anch Mahála	Houses for Forest Subordinates	2,100		*****	******	1,115 0 0	3,215 0	
ſ	Rest House	2,694	Cart Boads	16	6,415 0 0	1,810 0 0	18,434 0	
arat	2 Sets of Police lines'	4,866			·			
	Houses for Subordinates	3,149		ļ	-			
orth Thána	Houses for Forest Subordinates	4,031		- <b>-</b> - <b>-</b>	*****	******	4,031 0	
entral Thána	Houses for Forest Subordinates	4,808	Mangrul Road		2,912 0 0	******	7,720 0	
outh Thána	******	++==+a	******			192 0 0	192 0	
olaba	Houses for Forest Subordinates	1,406	Kondvi Divanmal	1	1,388 0 0	4	2,794 0	
	Total, Northern Circle	22,554			10,715 0 C	3,117 0 0	36,3 <b>86 0</b>	
<u></u>	CENTRAL CIRCLE.				ļ			
. (	Forest Guards' post three roomed at Va.zapur in Chopda Range.	1,050	•••••	******				
	Forest Depôts in the following Ranges :				1			
st Khándesh	Raver 1,430	-	-					
1	Faizpur in Mawal Range 1,430	1						
ł	Well at Raver 101	2,860	400			101 0 0	•	
	· .			1	i .			
				1			<u> </u>	
	Total	<b>3,</b> 91 <b>0</b>		· ·		101 0 0	4,011 0	
· [	Construction of a Forest Guards' post at Dhaner.	794	Road in Nawapur	***	250 0 0	• •••		
	Construction of a Forest Guards' post at Hatti.	, 1,070	Depôt.				*****	
est Khandesh	Construction of a Forest Guards' post at Khokss,	1,100						
	Part construction of a Forest Guards' post at Kholvihir.	300						
	Construction of a Depôt at Dangshir- wada.	858						
1		~, 			•			
	Total	4,122			250 0 U			

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## and Buildings during 1912-1913.

	·	·						
Buildiogs.		Boad	s ànd Paths.		Other Works.	Total	BRWARES.	
Description of Building.	Expenditure incurred.	Description of Boad or Path.	Length repaired.	Expenditure incurred,	Erpenditure incurred.	Expended for Repairs.		
9	10	11	12	13	14	15	16	
	Rs.	],	Miles.	Rs. a. p.	Rs. a. p.	R.s. s. p.	4	
Divisional Forest Officer's bungalow. Houses for Forest Subordinates	30 80		***		226 0 0	<b>336 Q O</b>		
Repairs to houses and posts	2,826	Cart roads	156	1,622 0 0	674 0 0	5,122 0 0		
			.•		ļ			
Houses for Forest Subordinates	760	Cartlroads	7	895 0 0	* *****	1,155 0 0 3	Besides Rs. 213 were paid ( District Local Board, bein } the share for makin Udhws Kase Road. ;	
Houses for Forest Subordinates	284	Cart roads	•••	156 0 0	77 0 0	517 0 0		
Bungalow at Tansa and houses for Forest Subordinates.	415	Cart roads	***	44 0 0	******	459 0 0		
Houses for Forest Subordinates	405 1	Cart roads	0 <b></b>	7000	••••	475 0 0		
•	4,800			2,287 0 0	977 0 0	8,064 0 0		
Forest Guards' depôts in the following Banges:	22 16 11 116 26 359 49 3	Chopada Range- Deozari to Nizardeo. Deozari to Mogramel. Mamalda to Gorade. Raver Range- Cart roads Yaval Range- Mogramel to Tinshamli. Tinshamli to Murudbari road.	5 8 18	212 0 0 249 0 0 120 0 0 375 0 0	····	  		
	<b>6</b> 02			956 0 0		1,558 0 0		
Forest, Depôt at Khandbara Do. at Nandurbar	35 15	Borzar to Charanmal	2	403 0 0		•••••		
Do. at Chinchpada Bungalow at Laling House and stable for Ranges at Nawapur. Posts at Umarpatta, Charanmal and Shenwad.	2 27 12 ( 464	road. Kalambari road. Road in Nawapur Depôt com- pound.	1	665 0 0 250 0 0	******		•	
	555		3	1,318 0 0		1,873 0 0		

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## FOB# No. 12.-Communications

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		NEW WOI	KS UNDERZAKER DUELNG	788 TRAR.			•
Division.	Buildings.		Rau	ds and Paths.		Other Works,	-
LATINON,	Description of Building.	Expenditure incurred.	Description of Road or Path.	Length of Road or Path.	Expendituro incurred.	Expenditure incurred,	Total Erpended o New Works
1	2	3	4	· \$	6	7	8
	CENTBAL CIRCLE-continued.	Rs.		Miles,	Ra.	Rs.	Rs.
	Talatis' quarters at Dhadgaon, Akrani Ranga		Akrani Raoga Telkhadi Toran- mal path.	18	245	••••	••••
North Khindesh .	Forest Guarda' quarters in the following Ranges :	1,311	Shirpur West Bange The Bhurki Wasardi road,		2,041	*******	
	Shirpur West        Do. East	70 1,225		•			
i i	Talods Rango 🦜	1,650		•			
	Total	8,172		28	2,286	4	10,458
North Násik	Baglan Range Forest Guards' posts Kalwan Range	1,258	••••		*****	<b>P</b> PP 445	
(	Forest Gnards' posts	708		- <del></del>			
	Total	1,966			*****	1 ++++++++++++++++++++++++++++++++++++	1,966
South Násik	Forest Guards' posts at Nasalgaon and Trimbak.	1,500	Hadpada to Dolo- hol.	6	580	\$22 <b>.00</b>	• • • • • • • • • • • • • • • • • • •
•							
	Total	1,500	•	6	580	******	2,080
<sup>9</sup> 00ma	Forest Guards' posts at Rejur and Ghatghar.	1,549	Bhi mashankar Ghoda to Bhima- shankar banga- low.	<b>*******</b>	106		• · ···
-	•			.•			
	Total	1,649 "		<u>/_</u>	106		
ſ	Forest Guards' posts in the following Ranges :		Construction of the				1,655
átára 👘 🛄	Jawali Karad	850 1,526	following roads :	5 8	1,197 1,810	******* *******	905768 905968
	Patan	1,825 15					
Į	Deepening of wells in Karad and Patan Ranges.	*******		beruse .	984169	850	<b>706+s</b> 9
	Total Total, Central Circle	4,216		8	2,507	850	7,078
	,	<b>25,48</b> 5	· · ·	87	5,729	451	81,615

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## and Buildings during 1912-1913—continued.

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ERAIDS XXXGUTED DURING TEN YEAR.										
Baildings.		Roads	and Paths		Other Works,	Total	Remarks.			
, Description of Building.	Expenditure incurred.	Description of Road or Path.	Length ropaired.	Expanditure incurred.	Expenditure incurred.	Expended for Repairs.				
9	10	11	12	18	14	15	18			
water of the	R <b>s.</b>		Milc <b>s.</b>	Rs.	Bs,	Rs.	•			
· · · · · · · · · · · · · · · · · · ·				}		•				
pairs to existing buildings in the following ranges :		Akrani Range Chanseli	13	438		*****				
Akrani	80 49	Dhad gaon, Mundalwad—			1	}				
Shirpur East	599	Kakarp a thi				1 1				
Dos West	120 246	Road. Tormal Kala-	29	31						
Taloda	e Su	pani road.	_							
		Existing foot- paths.	26	110						
-	íi	Taloda Range-				· ·				
		Chanseli Bari road.	. 4	74	******					
	1 044		52	653		1,697				
•	1,044	-								
• •		(	í	1		1				
alwan Range			1	1		1				
alwan Range— Two Forest Guards' huts	_10	•••••		498		*****	-			
			<b>.</b> '	· .	1					
,			}		-					
	10			••••		10,				
		·		-			1			
							1			
orest Guard's hut at Wani, Dindori Bange	·· 4	Ambi Bahul	8	116	*****		<u>,</u>			
WIGNOLT PROPERTY IN THE CASE OF CASE O	-	road.	1	2			1			
		Kharse Bhaoda	·  ···		*****					
	1	Ambechankada.	· ··· 1	25 62		*****	1			
. ,		Hatti Behedpada Tale Ambit road	5	- 29						
		Ambit Kumshet	5	26	{		{			
,					_ · ·					
	4		19	260		264	[			
		•} ·					ł			
•		Bhima s han kan	• • •	10		· · · · ·	Ĩ			
Bhimashankar and Ambavne		Bungalow road.	1	466		*****	1			
Bungalows- Grass tatis, white washing,	101	Bhorgiri Lonawla bridle path.	4	1	1		ł			
Grass tatls, white the operation of the second seco		Lonawla Bhima- shankar road.	1	1,010			1			
Loles: Cavids, Doses at tran-		Wandre Khind	9	1,002	****					
0		Kusur road.	1	}	1					
•	ł		1	1	1	1				
		4	28	2,488		2,624				
•*	136	-	28							
•			ł		1 .					
1	ļ	}		499						
Forest Guards' posts and Depôts		Vangvalley road .	11	3,000	******					
orest Guards' posts and in the following Ranges :	85	Koinavalley road. Javli	26 1	62 19		****** ******				
Wardd	43	Karád Mahábleshwar	. 28	190		****** *****				
Maháblesnwar	900	Pátan	10	24 37	******					
Satara	12	Sátárá Shirála	20	45		*****				
Shiráls	- 2	Improvement. of								
тт (Р. <sup>4</sup>	(	camping ground.								
•	474		121	3,816	77	4,367	-			
	2,825	1	280	9,491	77	12,393				
	2,020	1		1 .		tt				

#### FORM No. 12.—Communications

		NEW WO	BES UNDERTARES DUE	ING	THH YBAB.			· <u>·</u>
Divis.on,	Buildings,			Road	ds and Paths.	-	Other Works.	,
	Description of Building.	Expenditure incurred.	Description of Road or Path.		Length of Road or Path.	Expenditure incurred.	Expenditure incarred.	Total Expend- ed on New Works.
1	2	3	4		5	6	7	8
	SOUTHERN CIRCLE.	Rs.			Miles.	Rs.	Rs.	Rs.
Kánara, Northern	Houses for Subordinate Establishment .	<b>1,374</b> / 54	Cart roads	•••	5	1,822	••••· <b>*</b> •	•••••"
ļ	Total	1,428				1,822		3,250
ł				-				
Kánara, Southern,	Rest-houses	1,812 175	Cart roads	•••	±	361	, <b>101</b>	******
	Total	1,987			*****	361	+++++++++++++++++++++++++++++++++++++++	2,348
Kánara, Eastern	Rest-houses Houses for Subordinate Establishment	E67 924	Cycle paths	•••	·····	50 4	 1,609	•===== •===== •=====
-	Total	1,491		-		54	1,609	3,154
ánara, Western	Rest-houses Houses for Subordinate Establishment	3,491 4,184	Others .		••••••		135	*****
	•							
	Total	7,675		-	•••••	*****	135	7,810
Belg.um	Head-quarter Houses Houses for Subordinate Establishment	3,674 117	0+1	•••		1,134	<b></b>	•••••
	Total	3,791		-				·
				-		1,134	90	5,015
Dastrwär	Houses for Subordinate Establishment .	550	4 # 4 <b>4 4</b>			*****	******	*****
					,			
	Total	550		-	······································			550
Bijápar	••••••	******	•••••		**8	•••••	,	
Katnágiri	••••	••••	•••				••••	••••••
-	Total, Southern Circle	16,922		-		8,371	1,834	22,127

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## and Buildings during 1912-1913-continued.

		RS BERCUIED DUBING !		-		•	·		
Buildings.		Roads an	d Paths.		Other Works.	19-1-1	Bungar 100.		
Description of Building.	Expenditure incurred.	Description of Road or Path.	Length repaired.	Expenditure incurred.	Erpenditure incurred.	Total Expended for Repairs.			
9 '	10	11	12	18	14	15	16		
	Ks.	:	Miles.	Rs.	Rs.	Bs.	· •		
est-houses and houses for Sub- ordinate Establishment.	<b>7</b> 39	Cart roads Other works	67 •••	7,935	638		Rs. 10,000 contributed for repairs of Local Board rea- has been excluded.		
• •	739			7,935	638	9,312			
		•	•••						
louses for Subordinate Establish- ment.	358	Cart roads Other works	<b>4</b> ••••	194 		5.60° 44			
, <u> </u>	358			194	24	576	-		
Rest-houses Head quarter houses and houses for Subordinate Establishment,	, 75 1,098	Cart roads Others	27	5,334		•••••			
	1,173			. 5,834	21	6,528	-		
ftest-houses House for Subordinate Establish- ment.	945 502	Cart roads Light Railway Others	1	3,085 16	 	• • • • • • • • • • • • • • • • • • • •	Rs. 10,000 contributed Local Boards repairs of road , 124 Pay of tempore Establis h m e excluded.		
							Rs. 10,124		
	1,507		•••	1,101	56	2,664	-		
Rest-houses	25	Cart roads Tools on road		2,503		4 E <b>P</b> + E T 4 e <b>P</b> + E T			
Houses for Subordinate Establish- meat.	370	works. Others		*****	15	*****			
	528			2,619	15	8,162	-		
Rest-house Head quarter houses Houses for Subordinate Establish- ment.	40 396 16	Cart roads Metal and impli ments for road works.	• •••	7 <b>1,1</b> 49 <b>1,035</b>					
	•452	-		2,184		2,636	-		
,		-		-		20	_		
Houses for Subordinate Establish ment	20	•••••	-da						
Houses for Subordinate Establish	- 10				•••••	10	· · ·		
ment,	4,767	-		19,367	754	24,908			

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# Form No. 12.—Communications

		New	WORKS UNDERTAKEN DU	EING THE YEAR.			
Division.	Buildings,		Ro	ads and Paths.		Other Works.	Total Expend
-	Description of Building.	Expenditure incurred,	Description of Boad or Path.	Length of Boud or Path.	Expenditure incurred.	Expenditure incurred.	Total Expend od on New Works.
1	2	3	4	5	6	7.	8
,	SIND CIECLE.	Rs. a. p.		Miles.	Rs. 8. p.	Rs. a. p.	Rs. s. p
ukku <b>r</b>	Re-construction of office room for the Range Forest Officer, Mirpur, at Mirpur.	760 0 0	Other works	••••		1,103 0 0	<b>00</b> 8 ***
	Part construction of a pucca wall in the Rahuja Nursery.	906 0 0	 	i .			
	Other petty works	1900 ,			, ,	-	
		<i>i</i>				4	
.*	Totál	1,685 0 0		•••••	* *****	1,103 0 0	2,788 0
		<u>.</u>	1		, ,		**
ausháhro	Verandah to the rest-house for Forest Subordinates.	92 0 0	Other works	<b>402</b> • • •	******	655 0 0	*** <b>*</b> * <b>*</b>
		•		1			
			•				
	Total	92 0 0		\$48.es	····	655 0 8	747 0
lyderabad	Additions to the rest-house for Forest Subordinates.	152 0 0	Other works	*65***		356 0 0	******
•			,				
				· ·			
	Total	152 0 0			**************************************	356 0 0	508
•		<u>میں سرح منصد </u>					
esruck		**6***	Other works	•••••	*****	105 0 0	100.48
	Total				- ), 		
			)	*****		105 0 0	105 0
	Total, Sind Circle	,1,929 0 0		····· ~		2,219 0`0	4,148 0
	Grand Total	66,840 0 0		•••••	19,815 0 0	7,621 0 0	

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## and Buildings during 1912-1913—continued.

		REPAIRS EXECUTED D	URING THE Y				
. Buildings.		Road	s 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,	
. 9	10	11	12	18	14	15	16
Inspection bungalows and houses for Subordinate Establish- ments.	Rs. s. p. 56700	Other works	Milcs.	Rs. a. p.	Rs. a. p. 720 8 0	Rs. a. p.	· ·
		•					
	567 0 0	+4 		••••••	720 0 0	1,287 0 0	
Houses for Subordinate Establish- ments.	233 0 0	Other works	•30	• • • • • • • • • • • • • • • • • • •	720 0 0		
· · · · · · · · · · · · · · · · · · ·							• .
•	233 0 0				720 0 0	953 0 0	
Inspection bungalows and houses for Subordinate Establish- ments.	639 0 0	Other works •••	•••		785 0 0	- • ••••••	
·		1		i .			
	639 0 0		·		785 0 0	1,424 0 0	
Houses for Subordinate Establish- ments.	239 0 0	Other works	•••		3,858 Q O		
	259 0 0		 	******	<b>3,</b> 858 0 0	4,147 0 0	
	1,728 0 0			• • • • • •	6,083 0 0	7,811 0 0	
	14,140 0 0	-		31,145 0 0	7,891 0 0	53,176 0 0	

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	र्ग		NEW CA	3E8 OF TI	HB YEAR	, .			Disposei	OF DI	RING TH	E YEA	Be		
	Cases pend-	· · ·	Unau- thorized	Grazing without				Conv	ictions.	Acq	nitțals.	Т	otal.	Cases pend-	
Forest Division.	ing from 1911- 1912.	Injury to forest by fire.	felling or appro- priation of wood & minor forest produce.	grazing is pro-	offenang	Total new cases of the year.	Total cases.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	ing at close of year.	Cases withdrawn
1	2	3	4	5	6	7	8	9	10	11	13	13	14	15	18
NORTHERN CIRCLE.							[							[	
Panch Mabáls {(A) (B) (C)	53 53	4 6 107	15 553 180	1 365 1	 27 	20 891 288	25 944 288	17 884 	39 1,809 	1 	3  	18 884 	42 1,809 	7 60 	
Total	58	117	. 748	307	27	1,199	1,257	901	1,848	1	3	902	1,851	67	
Surat $\binom{(A)}{(B)}$ (C)		16 8 5	3 40 4	1 33 1	1 10 1	21 91 11	21 91 11	14 73 	31 141 	1 	1	15 73 	32 141 	6 18 	•••
Total	 9	29 1	47	35	12	· 123	123	87	172	1	<u> </u>	88	173	24	
North Tháng {(A) (B) (C)		$\begin{array}{r} 2\\ 41\\ \end{array}$	3 164 170	1 163 	 	5 365 211	14 365 211	14 328 	27 784	•••	•••	14 328 	27 784 	87	•••
Total	9 		837 5	164 2	· 36	581 19	590 33	342 20	811	 8		342	811	37	
Central Thána $\begin{cases} (A) & \cdots \\ (B) & \cdots \\ (C) & \cdots \\ Total & \cdots \end{cases}$	•••	54	345 206	350 5	47 7	742 272	742 272	742	28 1,455 	·	12  	28 742 	40 1,455 •••	5 ••••	•••
	34  17†	65	556 22	357 20	55	1,033	1,047	762	1,483	8	12	770	1,495	5	
South Thána $\dots \begin{cases} (A) & \dots \\ (B) & \dots \\ (C) & \dots \end{cases}$	17† 31† 	41	195 127	266 	2 27 	489 168	520 168	49 , 489 	94 1,291 	4 	19 	53 489 	113 1,291 	11 31 	
Total	48 47‡	45	344 130	5	29 	704	752 196	538	3,385	4	19	542	1,404	42	
Kolába { (A) (B) (C) Total	69‡  116	15 38	383 224	205 		658 262	727 262	106 641 	231 1,067	19 	25 	) 25 641 	256 1,067	71 86	
	92	59 	737 178	210 30	63 	1,069 261	1,185	747	1,298	19	25	766	1,823	157	-
Total $\dots$ $\begin{cases} (A) & \dots \\ (B) & \dots \\ (C) & \dots \end{cases}$ Total, Northern Circle $\dots$	153 ••• 245	32 286	1,680 911	1,322 7	202 8	3,236 1,212	353 3,389 1,212	220 3,157 	450 6,547	33 	60  	253 3,157 	510 6,547	100 232	
t		359	2,769	1,359		4,709	4,954	3,377	6,997	33	<u> </u>	3,410	7,057	332	·
CENTRAL CIRCLE. East Khándesh $\begin{cases} (A) & \dots \\ (B) & \dots \\ (C) & \dots \end{cases}$	13	4. 6	54 378 86	32 267	12 54	102 699	115 699	89 699	284 1,992	9	26	98 699	810 1 000	17	
Total	13	10	`518	302	66	95 896	95 909	 788	 2,276				1,992	•••	
West Khándesh {(A) (B) (C)	3 	9 4 34	5 216 73	3 411 4	20	17 651	20 651	19 651	60 1,681	9	26 	797 19 651	2,302 60 1,681	17	
Total	3	47	294	418	20	11 <u>1</u> 779	/111 782	670	 1,741	•••	•••	670	*==	••••	301
North Khándesh , {(A) (B) (C)	20 	4 17 8	13 207 68	2 142 1	27 365 1	46 731 78	66 731 78	59 731	112 1,797	4	20	63 731	1,741 132 1,797	1	••• •••
Total	20	29	288	]45	393	855	875	790	1,909					····	••••
North Násik {(A) (B) (C)	9	1 1 5	26 617 164	7 794	7 54 3	4,1 1,466	50 1,466	34 1,466	122 3,362		20 9	794 40 1,466	1,929 131	3 10	1
Total	9	7	807	801	<u>3</u> 64	172 1,679	172 1,688	 1,500	3,484	 5		1,506	3,362  8,493	  10	

## FORM NO. 13.- Register of breaches of Forest Rules during 1912-1913.

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(A) cases taken into court.
(B) cases compounded.
(C) cases undet eted.

\* 31 cases were shown as pending by mistake last year instead of 14. + One case was sul sequently compounded. I Out of 51 cases 3 were subsequently compounded and one was withdrawn.

#### NEW CASES OF THE YEAR. DISPOSED OF DUBING THE YEAR. Cases with Jrawn. Cases Unau-Grazing Convictions. Acquittals. Total. Cases pendthorized without pending at close felling permis-Total Forest Division. <sup>°</sup>ing from Total or appro-priation in tracts of wood in which Injury cases Other 10W Case of to forest 1911offences of the by fire. year. Cases. Persons. Cases. 1912. Cases. Persons. Persons year. & minor grazing forest is pro-produce. hibited. 1 2 3 4 5 6 7 8 11 12 16 9 10 18 14 15 CENTRAL CIRCLEcontinued. ... { (A) ... (B) ... (C) ... 2 4 12 84 11 2 49 61 156 4 48 48 204 13 44 ••• 1,109 1,109 1,109 1,109 408 61 2,722 2,722 636 South Násik ... ••• ... ... \*\*\* 29 36 204 204 138 1 ... ... ... ... \*\*\* ... ... ••• 1,157 Total .... 12 35 808 420 99 1,362 1,374 1,153 2,878 4 **4**8 2,926 18 ••• 2 16 2 84 39 29 103 5 19 34 122 б $\ldots \begin{cases} \stackrel{(\mathbb{A})}{\underset{(\mathbb{B})}{\overset{\ldots}{\ldots}}} & \overset{\ldots}{\underset{(\mathbb{C})}{\overset{\ldots}{\ldots}}} \end{cases}$ 5 14 ... 1,511 ••• 11 772650 $\mathbf{78}$ 1,511 1,511 1,511 3,350 8,350 \*\*\* Poons ••• ••• ••• 38 148 1 1 188 188 ... ... ... ••• ... ... ... ••• 8,472 3,453 5 Total ... 936 81 19 1,545 5 51 665 1,733 1,788 1,540 5 ... 67 214 18 64 209 $... \begin{cases} (A) & ... \\ (B) & ... \\ (C) & ... \end{cases}$ 5 26 45 8 80 85 3 Б ... 481 1,167 1,167 86 1,167 1,167 1,941 1,941 587 13 ••• ... ••• ... Sátara .... \*\*\* 27 64 1 ••• 92 92 ... ... ••• \*\*\* ---... ••• ... 1,234 1,231 3 б 2,155 18 ... 571 632 95 1,339 1,344 2,150 41 5 Total ... 67 127 368 1,173 1 58 838 1,046 80 114 869 436 Total $... \begin{cases} (A) & ... \\ (B) & ... \\ (C) & ... \end{cases}$ 67 174 23 7,834 7,334 16.845 ••• 50 8,307 718 7,334 7,334 16,845 ... 3,259 ... ••• ••• ... 147 741 10 42 940 940 ... ••• ... ... ... ... 1 7,702 18,018 67 30 127 4,222 3,383 818 8,643 8,710 7,672 17,891 Total, Central Circle .... 67 220 SOUTHERN CIRCLE. 16 28 G 15 27 1 ... 1 13 22 Kánara, Northern $\begin{cases} (A) & \dots \\ (B) & \dots \\ (C) & \dots \end{cases}$ 2 3 4 9 250 525 46 18 274**2**50 5**2**5 ... 207 296 \*\*\* 45 ... $\mathbf{22}$ 4 16 \* 6.8 65 81 81 65 ••• ... ... ••• 60 19 1 1 ... 68 831 558 ... 1 330 652 1 399 67 212 864 Total .... 35 19 66 82 210 75 38 63 172 14 54 235 $\frac{7}{7}$ 103 157 ï Kánara, Southern. {(A) ... (B) ... (C) ... 92 1 3 888 888 1,938 442 1,938 ••• 906 **3**9 1,096 1,331 ... 144 205 20å ... ... ... 30 99 76 175205 • • • ... \*\*\* 1,175 1 517 2,148 1,161 2,110 14 38 1,693 Total ... 819 113 J,074 40 147 1,374 26 3 11 11 • • • $\mathbf{7}$ 15 4 Kánara, Eastern. $\begin{cases} (A) & \dots \\ (B) & \dots \\ (C) & \dots \end{cases}$ 7 14 7 3 1 2 255 418 41 Б 279 25ō . 418 296 ... ••• 17 36 12188 61 18 204 10 ... 204 ... 90 80 10 183 219 ... ... 3 444 64 5 470 11 466 4 469 529 433 **6**0 269 65 30 Total ... 105 18 94 83 ... 19 **34** 60 7 $\mathbf{42}$ **61** 14 Kánara, Western. {(A) ... (B) ... (C) ... 2 30 3 9 1,262 \*\*\* 526 526 1,262 ... 517 ... `iō 467 526 9 25 15 ... 76• • • ••• ... ... 76 ... 76 76 ... 33 42 1 • • • ... 1,856 18 .... 635 34 1,322 19 616 635 653 Total .... 18 45 539 32 19 49 10 23 24 ... 6 17 18 26 .... {(A) .... (B) .... (C) .... 17 99 34 4 7 5 1 1,277 2,636 243 ••• 1,277 2,636 ••• • • • 1,421 302 **11** 532 43 1,520 835 Belgaum .... 296 6 ••• ... 290 ... 302 ... 79 219 ... 4 • • • ••• 259 1,597 2,685 23 6 1,856 1,591 2,662 1,740 94 Total .... 116 758 844 44 27 277 50 6 5 10 ... 22 49 21 33 ... { (A) ... (B) ... (C) ... $\frac{12}{22}$ 2 16 2 1 : 8 774..... 277 148 774 ... 315 148 41 293 ... 6 103 143 Dhárw**ár** 148 ... ... ... ... ... 75 73 ... 148 ... ... 44 833 ••• 10 452 5 823 462 496 447 83 272 42 Total ----84 105

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#### FORM No. 13.—Register of breaches of Forest Rules during 1912-1913—continued.

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# FORM No. 13.—Register of breaches of Forest Rules during 1912-1913—concluded.

	·			NEW CAR	SBS OF TH	B YBAR.			}	Dise	OSED O	F DURING	THE T	EAR.		
Forest ]	Division.	Cases pend- ing	Injury	Unau- thorized felling or appro-	Grazing without permis- sion or		Total	Total cases.	Conv	victions.	Acq	uittals.	T	'otal.	Cases pend-	Case with
		from 1911- 1912.	to forest by fire.		in tracts in which	Other offences	new cases of the year.		Cases.	Persons.	Cases.	Persons.	Cases.	Persons	ing at close of year.	draw:
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	RN CIRCLE															
Bijápur	{ A) (B) (C)	6 22 	3  41	25 156 26	35 240 3	6 28 	69 424 70	75 446 70	41	1.167	8 	23 	- 64 411 70	1,167	11 35 	·
	Total	28	44	207	278	34	563	591	537	1,328	8	23	545	1,351	46	
Ratnágiri	··· { (Å) ··· (B) ··· (C) ···	1 13 	 1 1	 28 1	•••	···· 4	 33 2	1 46 2	24	45	•••	 	1 24 24		22	•••
	Total	14	2	29		4	85	49	27	47		•••	27	47	22	•••
Tote	الله (A) (B) (C)	119 *439 66	23 51 478	174 2,465 536	55 1,510 11	16 811 12	268 4,337 1,037	387 4,776 1,103	3,908	8,765	57	140 	258 3,908 1,066	8,765	129 867 82	•••
Total, South	ern Circle	624	552	3,175	1,576	339	5,642	6,266	5,175	9,277	57	140	5,232	9,417	1,028	
SIND	CIRCLE.	21														
5ukka <del>r</del>	{ (A) (B) (C) Total		6  34	309 133	11 ••• •••	7 1 	67 310 167	88 310 167	310	66 464 	17 	74 	56 310		32	•••
		·	40	485	11	8	544	565	349	530	17	74	366	604	82	
Nausháhro	••• { (A) (B) (C)			2 72 2	· 1 ···	8 ]1	6 83 20	10 83 20	2 83	2 83 	1	1	3 83	83	7	       •••
	Total	4	· 18	76	1	14	109	113	85	85	1	1	86		7	····
Hyderabad	{ (A) (B) (C)			8 142 9	) 	5 20	14 162 28	16 162 28	162	28 165	•••• ••••	···	·11 162	165	5	•••
	Total	2	19	159	1	25	204	206	173	193			173	193	 5	•••
lerruck	, { (A) (B) (C)	2 	1 4 30	6 55 5	2 	1 	10 59 35	12 59 35	53 53	10 54	•••	•••	5 53 	10 54	7 6	•••
	Total	2	35	66	2	1	104	106		64		•••				•••
	{ (A) ` (B) (C)		7 4 101	59 578 149	15 	16 32 	97 614 250	126 614 250	57 608	106 766	18		75 608	181 766	51 6	•••
	nd Circle	29 307	+112	786	15	48	961	990	665	872	18		 683	947	 57	
FAND TOTA	د { (A) (B) (C)	592 66 965		585 8,030 2,337 13,952	214 6,091 28	102 1,263 62	3,439	1,302 16,113 3,505	1,066	2,114 82,923	138	402	954 15,007 1,066	2,516	347 1,105 32	 1 1 5
(A)	neans cases to	1		10,992	6,333	1,427	19,955	20,920	16,889	85,037	138	402	17,027	85,439	1,484	

(B) means cases compounded and let off with warning.
 (C) means cases undetected.

\* Out of 453 cases pending at the close of 1911-12 thirteen were transferred to A and one to C. † This includes six fire cases left undecided from last year.

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FORM No. 14.—Area of Forest	Tracts protected from fire during 1912-1913.
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Division.		Forest I	Sangee,		Year in which protection commenced.	Area protected during 1911-1912.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	REMARE
1		2	;	<u> </u>	3	4	5	6	7	8	9
		NORT	HERN CLE.			Acres.	Acres.	Acres.	Acres.	Rs. a. p.	
Pancn Maháls .	-{	Godhra Kalol Hálol Dohad Jhalod	*** 444 *** ***	•••• •••• ••••	••• ••• •••	89,213 21,533 28,230 46,106 26,783	89,277 21,533 28,312 46,241 26,862	764 226 <b>3,166</b> 2,924 <b>3,7</b> 23	88,513 21,307 25,146 43,317 23,140	4,405 0 0	
<b>-</b> .			Total	•••	400 	211,915	212,225	10,802	201,423	4,405 0 0	
surat ••• •	{	3 Dángs R Mándvi Bulsár-Chi		 	*** ***	<b>417,338</b> 40,601 2,809	419,809 40,889 2,809	1,163 24 	418,646 40,865 2,809	} 6,848 0 0	
			Total	•••	•••	460,748	463,507	1,187	462,320	6,348 0 0	
North Thána .	-{ -{	Máhim Dáhánu Umbargaoi	*** *** 11 ***	• - • • • •	905 	74,366 78,267 57,145	76,440 79,484 58,217	1,110 156 260	75,330 79,828 57,957	3,844 0 0	
•			Total	•••		209,778	214,141	1,526	212,615	3,344 0 0	
Central Thána	-{	Bassein Wáda Khardi Mokháda	•••	•••	*** *** ***	53,932 75,848 64,487 35,657	54,354 79,728 68,774 36,038	240 1,985 1,320 97	51,114 77,743 67,454 35,9 <del>1</del> 1	4,527 0 0	
1			Total		***	229,924	238,894	3,642	235,252	4,527 0 0	
South Thán <b>s</b>		Sálsette Kalyán Bhiwndi Sháhápur Murbád	•••• ••• ••• •••	•	   	14,168 30,707 38,383 56,119 55,093	14,756 31,698 40,154 70,262 55,864	252 520 1,085 4,738 6	14,504 81,178 39,069 65,524 55,858	} 3,392 O O	
			Total	•••	•••	194,470	212,734	6,601	206,133	3,392 0 0	_
Xolába •		Alibág Pen Panvel Karjat Khálápur Nágothua Roha Mángaon Mahád Mátherán Dápoli	•••	• • • • • • • •	···· ···· ···· ··· ··· ···	27,251 29,940 27,699 32,013 21,697 34,914 38,943 25,965 25,705 1,108 2,121	27,447 30,689 28,041 32,395 21,859 35,241 39,148 26,104 25,778 1,107 2,122	59 369 74 245 75 22 144 10 48  5	27,388 30,320 27,967 32,150 21,784 35,219 39,004 26,094 25,730 1,107 2,117	2,541 0 0	
·			Total	•••		267,356	269,931	1,051	268,880	2,541 0 0	•
		Total, North CENTRAL		_		1,574,191	1,611,432	24,809	1,586,623	24,537 0 0	
ast Khándezh		Parola Erandol Chálisgaon Chopda Edalabad Bhusawal Jánner Jalgaon Ráver Yával			        	68,418 45,040 95,500 64,619 53,400 73,695 75,525	37,715 30,362 38,250 107,705 41,346 23,700 40,709 13,764 76,210 78,000	84 • 16 205 146 ···· 250 311 ··· 580 11,057	87,631 80,346 98,045 107,559 41,346 23,450 40,398 13,764 75,630 66,943	· · · · · · · · · · · · · · · · · · ·	,
1		ري	Fotal			476,187	487,761	12,649:	475,112	3,399 0 0	

## FORM No. 14.—Area of Forest Tracts protected from fire during 1912-1913-continued.

Division.	Forest R	anges,		Year in which protection commenced.	Area protected during 1911-1912,	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	REMARKS.
1	2	2		3	4	5	6	7	8	9
<u></u>	CENTRAL —conti		LE		Acres.	Acres.	Acres.	Aores.	Rs. a. p.	
	Dhulia Sindkhed	•••	••••	}	75,818	75,818	<b>9 4 9</b>	75,818	••••	
West Khandesh 🐽	Sakri Pimpalner		·	1 4 4 4 4	135,364	145,837	4,689	141,148		
	Nandurbár Navápur	•••	*** ***	- +++	61,061 30,414	63,558 61,378	2,877 5,393	60,681 55,985	194.,, 489.,,	
		Total	•••	••••	302,657	846,591	12,959	<b>3</b> 33,632	4,016 0 0	•
	Taloda	***	884	+++	61,742	71,680	342	71,338	****	
North EL ( )	Akráni	•••	***	•••	192,534	194,684	6,350	188,334	******	
North Khándesh	Sháháda		•••	•••	72,179	83,061	100	82,961	••••••	
	Shirpur Ea Do. W		•••		201,315	206,341	<b>2,155</b> 564	} 203,622	*****	
		Total	•••		527,770	555,766	9,511	546,255	8,917 0 0	
South Nasik	Násik Igatpuri Sinnar Dindori North Pein South Peint	••••	· · · · · ·	···· ···· }	41,288 53,102 31,625 52,680 107,066	41,567 53,637 31,625 53,701 107,267	318 97 41 288 199	41,249 53,540 31,584 53,413 107,068		-
	Akola Sangamner		· • • •	į	66,738	63,891	107	66,784	101104	
•	Rapir	•••	•••	····	61,242	65,103	94	65,009	*****	
	r i	Total	, 		413,741	419,791	1,144	418,647	1,119 0 0	
	Malegaon	T	•••		109,676	109,379		109,379		
	Nandgaon	•••	÷••		64,546	64,651	***	64,651	*****	
North NY 11	Baglan	•••	•••		120,491	120,403	•••	120,398	******	•
North Násik<	Kalwar.	•••	•••	, 	107,061	107,221	212	107,009		1
	Chandwad	•••	- <b>··</b> •	+++	21,740	21,805	5	21,800	*****	
. • <b>(</b>	Yeola includ gaon	ing Koj	per-	+==	25,938	25,938	***	25,938	*****	
		Total		•	449,452	449,397	222	449,175	684 0 0	
(	Ambegaon									
İ	Dhond Haveli	***	•••	***	40,735 16,340	40,878 16,340	8	40,870 16,340	******	
Poona	Junnar Khed	•••	•••	***	30,911 46,656	30,945 46,662	387 44	80,558 46,618	*****	
	Lonavla	•••	••••	,	45,727	46,414	17	46,427	******	
•	Mával Mulshi Purandhar	••• ••• •••	•••	} ••• •••	49,061 26,030 11,314	49,770 26,040 11,315	{ 229 { 243  10	} 49,298 26,040 11,305	4+++++++++++++++++++++++++++++++++++++	
		Total	•••	•••	206,774	268,394	938	267,456	159 0 0	

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FORM No. 14Area of Forest	Tracts protected from fire during 1913-1913-continued.
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D;	lvision,	Forest Ranges.	Year in which protection commenced.	Area protected during 1911-1912.	Area attempted to be protected.	Failures.	Area setually protected.	Cost.	REMARES.
	1	. 2	3	4	5	6	7	8	9
	,	CENTRAL CIRCL	E	Aores,	Acres.	Acres.	Acres.	Rs. 8. p.	
Sátára		Karád Khatáv Mahábaleshvar Pátan Sátára Shirála	10	58,105 (28,954 4,797 43,086 74,619 45,191 86,126 4,581 33,244	58,122 28,957 4,797 43,185 74,725 45,221 36,151 4,581 33,264	7 594 104 36 120  2	58,115 28,955 4,7,97 42,591 74,621 45,185 36,031 4,581 53,262	······	
		Total .		328,703	329,003	865	328,138	251 0 0	-1
		Total, Central Circle.	•••	2,765,284	2,856,703	38,288	2,818,415	18,545 0 0	-
	(	SOUTHERN CIRCLE.	1887-88	88,435	40 500	345	42,185	2,220 0 0	
Kánara,	Northern	Supa Bomanhalli	1888-89	2,602 38,182	42,530 4,563 38,698 56,729	1,648 270	2,915 2,915 38,428 56,725	2,220 0 0 896 0 0 799 0 0 1,095 0 0	Bs. 57 spent for the protection of
	(	(Inn J	1888-89		52,003 46,610	44 20	51,959 46,590	1,535 0 0 323 0 0	Tavargatti Depôt against fire and Rs. 59 spent for fire drums have been excluded.
		Total .	•••	233,202	241,133	2,331	238,802	6,368 0 0	-
Kánara,	Southern	Sirsi Honávar Bhatkal Siddapur	1900-01	5,950	108 6,088 3,469 122	36        	72 6,088 3,454 102	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
		Total .	······	9,433	9,787	71	9,716	396 0 0	-
		Do. 17 Do. 12 Kirwatti Block 13	1902-03 1888-89	<b>21,023</b>	29,663	18	29,645	566 0 0	
Kánara,	Eastern	Do. 14 Do. 15 Do. 16 Bhartenalli Block 18	. 1894-95 1902-03	5 02,000	67,446	1,125	66,321	2,198 0 0	
		Do. 16 Do. 21 Mundgod and Katur22	. 1902-03	86,017	86,341	489	85,852	878 0 0	
		Block. Do. 23 Do. 16 Teak pole area	5. 7,	11	92,496	10,865	82,131	3,077 0 0	
		Total		194,742	225,946	11,997	213,949	6,719 0 0	•
Kánara,	Western	Kárwár Kadra Ankola Kumta	1888-89	87,332 44,873 5,741	{     6,497     28,739     156,870     6,280	6 143 230 1	6,491 28,596 156,640 6,279	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
		Total		87,946	198,386	380	198,006	1,878 0 0	•
Belgaum		Belgaum Kbánápur, East Khánápur, Central Khánápur, Western Gokák	1886-87 1910-11 1889-90	80,252 42,629 76,581 95,990 94,080	84,110 47,215 77,571 97,023 94,525	268 942 787 100 165	83,842 46,278 76,784 96,923 94,360	725 0 0 787 0 0 1,231 0 0 502 0 0 978 0 0	Rs. 349 spent on fre flag staffs, pro- viding belts to fire
		' Total	····	<b>3</b> 89, <b>4</b> 82	400,444	2,262	398,182	4,223 0 0	guards and print- ing notices and patrol books,
Dhárwár	{	Dhárwár Kalghatgi Bankápur Hángal Kod	1888-89 """ 1907-08	25,420 88,440 9,309 10,200 15,878	84,101 46,800 20,133 13,454 18,012	686 8,316 1,181 971 5,919	83,415 43,484 18,952 12,483 12,093	1,641 0 0 634 0 0 821 0 0 121 0 0 71 0 0	
		Total		98,747	182,500	12,073	120,427	2,788 0 0	

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Division.	Forest Ranges.	Year in which protection commenced.	Area protected during 1911-1912.	Area attempted to be • protected.	Failures.	Area actually protected.	· Cost.	<b>Benyer</b>
1	2	3	4	5	6	7 -	8	9
	SOUTHERN	-	Acres.	Acres.	Acres.	Acres,	Rs. a. p.	
	CIRCLE—continued.		}	-		]		}
	Bágalkot	1889-90	1,871	2,345	269	2,076	31 0 0	
Bijápur	Badámi	", •••	1,941	1,425	176	1,249	43 0 0	}
	Total		3,812	3,770	445	3,825	74 0 0	
Ċ	Dápoli	1889-90	471	473	•••	473	5	
	[Khed	1892-93	6,431	6,435	***	6,435	<b>{</b> 10 0 0	}
	Chiplún Sangameshvar	>> ••• >> •••	798 3,101	798 3,101	1	798 3,100	К	1
Batnágiri	Ratnágiri	»» ···	277	277	•••	277	1000	(
	Bájápur Devgad	,, ,,	322 11	822 11	· •••	322 11	)	
	Málvan Vengurla	>> ••• >> •••	625 9	625 9		625 9	10 0 0	
	Total		12,045	12,051	1	12,050	30 0 0	•1
	Total, Southern Circle.		1,029,409	1,224,017	29,560	1,194,457	22,476 0 0	
	SIND CIBCLE.		·					
				10.000			* .	{
ſ	Mirpur Range Ghotki ,,	11 1	84,197 80,250	42,680 30,978	523 23	42,157 30,955	•••••	
{	Sadhuja ",	Not 1	56,597	59,086	79	59,007	*****	ļ
Sukkur	Rohri " … Abad " …	known	28,719 38,472	30,544 39,190	73 18	30,47 <u>1</u> 39,172	••••	
CURRUL	Sakkur "	D . I	27,261	27,787	<b>3</b> 8	27,749	•••••	1
	Kot Sultán "	1885-86 & 1887-88.	23,244	23,255	***	23,255		ł
L	Kashmore " …	1895-96	29,328	31,433	146	31,287		
	Total		268,068	284,953	900	284,053	••••••	
ſ	Garhi Yásin Range Lárkhána	11 1	31,929	32,175	4	32,171		-
Nausháhro	Radhan ,,	[[ 100 ]	29,071 21,020	29,118 21,073	543 •••	28,575 21,073	••••••	ļ
	Sehwán ,,	,, ,	23,697	22,234	329	21,905		
, C		<u>``</u>	40,144	41,880	63	41,817		-
•	Total		145,861	146,480	939	145,541		
ſ	Sakrand Range Hála	,, ,	49,032	49,050	424	48,626		
Hyderabad	Miáni		46,222 25,745	46,327 25,566	39 150	46,288	******	ł
•	Hyderabad,	// • · · /	2,223	2,223		25,416 2,223	•-••••	j
ų v	Unerpur "		28,560	27,877	31	27,846		ļ
	Total Viran Bange		151,782	151,043	644	150,399		}
	Ghorábári	Not	17,378 32,701	17,579 33,871	353	17,579		
Jerruck	Sháhbandar "	known	24,604	26,847	164	33,518 26,683	•••••	1.
. U	Katiar "	}[	42,912 18,772	46,175 20,565	720 	45,455 20,565	· ••••••	Į
. ,	Total		136,367	145 005				1
,	Total, Sind Circle	· ••• . 	702,078	145,037 727,513	1,237	143,800		ĺ
	GRAND TOTAL		6,070,962	6,419,665	3,720	723,793 6,323,288	65,578 0 0	

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FORM NO. 14.-Area of Forest Tracis protected from fire during 1912-1913-concluded.

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# FORM No. 15.

FORM No. 15.-Causes of

				<b>A</b> )		<b>(</b> B)	ļ			(	C) F11	3ES BEGIN	NING 1	NSIDE TI
· · · · · · · · · · · · · · · · · · ·			by action	s caused cident or ough	the fe	entering prests by possing	 	Ow	ving to	carelessner	38 or 80	cident.	·	
Division or Ci	rcle.		carele bu	ssness in rning lines.	exter	tior fire-	empl the fo purc	orkmen oyed in rests, by hasers, ors, &c.	travel · pa thr	illagers, lers, etc., ssing ough fcrests.	By : en	railway gines.	0	ightning r by balloons
	1		No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres
1			2	3	4	5	6	7	8	9	10	11	12	13
NORTHERN CI	RCLE.									- 1 .				
Panch Máhals Surat North Thána Central Thána South Thána Kolaba	•••• ••• •••	• • •	10 2 1 3  1	160 40 3 49	9  4 5 2 18	1,186  66 587 230 392	1 5  1 	200 24  60	29 8  19  23	2,624 1,120 1,012  225	7  2 1 1	279 79 45 200 129	···· ···· 2	 1,002
	Total	•••	17	377	38	2,461	7	284	79	4,981	14	782	2	1,002
CENTRAL CIR	CLE.											}		
East Khándesh West Khándesh North Khándesh South Násik North Násik Poona Sstára	••• ••• ••• •••	•••	4 1 2  1  5	3,648 75 512  3  5	4 2 5 1	2,525 1,075 29 57 	2 2 1   6	603 293 16 12  55	1  16 16 5 2 	173 303 678 162 27	···· ··· ··· 5	  104	 4 	 55 
	Total	•••	13	4,243	12	3,686	12,	979	40	1,343	Б	104	4	55
SOUTHERN CI	RCLE.							• <u> </u>						
Kánara, Northern Kánara, Southern Kánara, Eastern Kánara, Western Belgaum Dhárwár Bijápur Ratnágiri		,.   	2 16 2 8 	20  843  91 	2 3 3  12 11 3 1	226 76 78  259 2,541 1,024 	3  	 12  	21 19 7 9 -25 18 	245 508 70 65 8,252 8,039	1  12 8 	25  376 879 	2 3 2  	3 18 53   
	Tctal	•••	28	961	35	4,204	3	12	99	12,179	21	780	7	74
SIND CIRCI	LE.													
ukkur Jaushahro yderabad erruck		•••	1  	  	* *	229  	•••• •••• •••	•••• ••• •••			···· ···· ····	••• ••• •,•	  	•••
	Total	•••	1	5	7	229			6					
Grand	Total .	[	59	5,586	92	10,580	<b></b> <b>2</b> 2	1,275	224	18,572	40	1,616		

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## Forest Fires during 1912-13.

		:	By Intent	ional Fir	ing.					•		
In or btain n	der to ew gruss.	In order out gam reduce	ne or to	Malic -fir	ióusly <sup>—</sup>	T	otal.	Causes T	Inknown.	Та (А), (В)	otal and (C).	Remark
No. of fires,	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires,	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	•
14	15	16	17	18	. 19		21	22	23	24	_25	:6
5 ••• •••	€73   	10 1 1 . 8 	1,203 3 10 6 437	27    1	2,959    25	79 14 4 22 7 25	7,938 1,147 89 1,063 1,699 379	13  35 35 36 15	1,518  1,368 1,943 4,672 155	111 16 44 65 45 59	10,802 1,187 1,526 3,642 6,601 1,051	
5	673	16	 1,659	28	2,984	151	12,315	134	9,656	<b>3</b> 40*	24,809	
••• ••• ••• •••	· · · · · · · · · · · · · · · ·	3 2  	525  25 	2 9  1  1	8,000 5,519  250 500 14,275	5 14 17 21 5 12 7	8,776 6,337 319 776 362 381 555 (17,306	1 28 8 6  39 29 111	225 4,022 7,605 339  557 305 13,053	10 47 29 55 7 51 41 220	12,649 12,959 9,511 1,144 222 938 865 	
•••	•	5	550	18	14,275							
1 1 38  2 	4 5 9,797  88  	··· 1 ··· 3 ··· 1 ··· 1	40  74  48 	1 5 9  12 1 2 	60 226 213  536 1 40 	5 21 5 38 34 21 	92 534 10,583 70 1,139 8,632 3,127 	57 79 16 38 42 30 20 1	1,993 2,215 2,762 382 857 5,693 786 1	66 113 105 45 • 94 83 44 2	2,331 2,825 14,266 452 2,262 16,957 4,537 1	
42	9,894	. 5	162	30	1,076	207	24,177	282	14,689	552	44,031	
14 	549 			1 	5	21 	623  	5 18 19 85	43 939 644 1,237	34 18 19 35	900 939 644 1,237	
 14	 549				5	21	623	77	2,863	106*	3,720 {	`
			2,371		18,340	- 463	54,421	604	40,261	1,218	110,848	-

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Divisi	0D.	-	Closed	toa	ll animals.				wsers (camels, sheep).	Open to animals		Total are		Remarks
	•		Whole y	ear.	Part of y	/e&r.	Whole ye	ear.	Part of year.	Whole ye	ar.	TOTALAL	29.	
]		<u> </u>	2		3		4		5	. 6		7		8
NOBTHERN			Eq.m.	a.	Sq.m.	8,	Sq.m.	<b>8</b> .	Sq.m. a.	Sq.m.	8,	Eq.m.	8.	
RESERVED ]	FOREST	5.			§ .					(				
			. 81	0	13 62	0	<b>332</b> 68	0 0		12	0	<b>3</b> 32 80	0	
angs (Leased)			••	-	•••••	U		U	331 0	•••••	· •	331	0	
			. 83	0	3	0	335	0		••••		835 369	0	
		•• •	93 98	0	C		369 832	0	******	*****	1	309	ŏ	
olába .	•• •		1 44	ŏ	*****		450	ŏ	****			450	Ō	
hmedabad (Moda	isa) .	•• •			•••••				•••••	:19	0	19	0	
Total, Reserv	red For	ests ,	415	0	78	0	1,886	0	331 0		0	2,248	0	-
PROTECTED	Fores	r9 <b>.</b>		•		-			i i					
urat Dángs (Leas	ied) .					!			******	825 •	0	325	0	
orth Thana			***							146	Ŏ	146	ŏ	
J.		•••••	1		*****		4	0	******	97	0	101	0	
-1/1 -		•• •	]		••••••		9 73	0	*****	145	0	154 73	0	
Matal Dastard		2	<b></b>											
Total, Protect	ea ror	csts "	•		•••••		86	0		713	0	799	0	
Total, Nort	hern Ci	rcle .	415	. 0	78	0	1,972	0	331 0	744	0	3,047	0	
CENTRAL (	CIRCL	E.								•	,		l	
RESERVED	Forest	8.		۰		ļ								
	•• ' •	••••••	. 226	0	7	_0	464	0		37	0	<b>7</b> 9 <b>9</b>	0	
anth da			100	0		$\overline{\mathbb{C}}$	442	0		231	ŏ	773	ŏ	
		••••••	118 285	0	•••••	X	751	0			_	869	Ō Į	
outh do.			96	0	14	ົ	417 530	0 0	****	856 115	0	1,558 761	0	
1 + 1			- 23	0	44	ŏ	/1 350	ŏ	120·41	295	ŏ	701	0	
		** *	106	0		$\searrow$	4.8	0		195	Ŏ	709	ŏ	
Total, Reserve	d Fores	its ,	954	0	130		8,368	0		1,729	0	6,181	0	
PROTECTED	FORES	<b>TS.</b> .			}	-	3			, <u> </u>				
								0		0#	~			
itira .	••	•• •			*****		, , , , , , , , , , , , , , , , , , ,	<b>v</b>	******	87 1	0	98 1	0	
Total, Frotecte	d Fore	sta			[			—				·	<u> </u>	١
Total, Cer			J	0	130	0	11 3,379	0		88	0	99	0	
SOUTHERN		, T 73	·	<u> </u>						1,817	0	6,280	0	
		- <b>- E</b> - ,			ł		}		ļ			Í		
anara, Northern	•• •		- 280	0		•	468	0	******			748	0	
Do. Southern Do. Eastern	ee C		. 15 . 271	0			961	0	*****			976	0	
Do. Western			- FO	- U	******		382 797	0 0				653	0	
elgaum .	•••		. 64	Q	*****		561	0 0	******	54	0	873 679	0	
		•• •		0	•••••	-	196	0	******	152	ŏ	879 376	0	
		••••	. 8	0	3	0	207	0		59 10	0	277	0	
Total, Soutl			[		3	0	3,572			10		19	0	
N		-		<u> </u>			<u>4 ارتوں</u>			275	0	4,601		
\$IND CI	SC Li Es		1		[		(		{	·	1			
	•• •			0			217	.0		180	0	a		
المتعادية مستقدما	•• ••			0	•••••		96	0	******	J13	ŏ	445 229	0	
		••••••		0			52	0	******	177	0	236	0	
•					• • • • • • • • • • • • • • • • • • •			0	*****	110	0	• <b>2</b> 27	ŏ	•
Total, S	Sind Ci	rcle 🛏	- 77	0	•••••		480	0		580	0	<b>1</b> 7 0 m	<u>_</u>	
	_		·	-	]				·		~	1,137	0	
Gra	יייך מא	гац	2,197	0	211	0	9,403	0	331 U	8,416	0			

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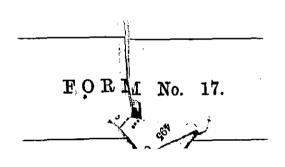
# FORM No. 16.—Area closed and open to Grazing during 1912-1913.

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# FORM No. 17.—Return of Grazing

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			<b>≜</b> ‡	full rates	i,	/ 🖌				At privi	leged mt	:08 <b>.</b>		L.	
Division.			{										Fees	received.	
	Buffa- loes.	Cows and Bul- locks.	Goats and Sheep.	Camels.	Other Ani- mals.	Fees received.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Ani- mals,	Actual	•	Value at rate	
, <u>1</u>	2	8	4	5	6	7	8	9	10	11	12	13		14	
NORTHERN CIRCLE.	·					Rs. a. p.				1		Rs.	<b>s.</b> p.	Rs.	a. p
RESERVED FORESTS.							· -			1	ł				
Panch Maháls	509	570				783 0 0	815	<b>3</b> 39	•••		•••	112	0 0	484	0
Surat	•••				·		<b>25</b> 5	701	•••			119	0 0	956	0
North Thána · ···		1's	•••			91 0 0	357	1,368				413	0 0	1,301	0
Central do	151	4,277				2,862 0 0	602	3,392				832	0 0	2,873	0
South do	145	2,676	•••			1,854 0 0	3,188	11,832		•••		8,752	0 0	11,380	0
Kolába		71				71 0 0	18,055	71,384	220	•••		12,286	0 0	89,494	0
Total, Northern Circle	805	7,739	***			5,661 0	22,772	89,016	220	·	•••	17,514	0 0	1,06,488	0
						<u>}/</u>			·}			·			
CENTRAL CIRCLE.			ł						{	ļ					
East Khåndesh		17,489	1		153 -	18,529 0 0		199,610	•••		ļ		0 0		
West do.	1	1	1		9	1,154 0 0	9,075	60,728	···· .		461	8 <b>,997</b>	0 0	70,264	0
North do.		64,583			2,178	24,806 0 0		***	•••		***	•••••••		*****	•
North Násik					84	981 0 0		162,634	125,382	]			Ó O	<b>2,03,</b> 302	0
South do		1,278	1		15	to make		114,025	9,885		1	20,193	0 0	1,39,994	0
Poona	293	202	•-•			\			86,363	•••	511	17,873	0 0	1,15,938	0
Sitéra					<u> </u>		·Ì <del>───</del>	107,598		·	***	18,033	0 0	1,40,996	0
Total, Central Circle	13,340 	85,206		/ •••	2,389	47,289 0 (	132,559	743,648	171,630		1,522	1,30,898	0 0	9,09,874	0
SOUTHERN CIRCLE.				1	1	1 N	Í			].	1	2			
Kanara, Northern Division.	2	16			· •••	216 Q Q	89,	) 991		•••		5,769	0 0	39,991	0
Do. Southern do		28				18 0 0	104,	10 <b>1</b>	78		1		0 0		
Do. Eastern do		53	•••			53 0 0	80,	584	4	•••	3	4,476	1		_
Dc. Western do		•••				••••••	61,	997					0 0	,	
Belgaum	27,4	60				11,901 (`0	30,	300	876		•••	3,842	-	80,519	
Dhárwár	1,6	01	***			1,603	63,	793		· .		_	0 0		
Bijápur	1,1	82	3,482		10	2,182 0	81,	880	•••	•••	ي. 489		0 0	)100	
Ratnágiri	•		•••			•••••	1	20					0 0	<b>82,</b> 369	0
Total, Southern Cirele	30,54	10	3,482	•••	10	35,973 0	412,	366	958		493	55,654		20	
SIND CIRCLE.					- <b></b>									4,13,394	
Sakkur	2,019	2,904	8,308	141	96	11,639 ( 0			•••						
Nausháhro	1,575	1,249	7,708	148	25	6,724 ( 0			•••						
Hyderabad	J,996	2,187	17,207		9	18,000						****		*****	•
Jerruck	1,293	1,172	2,915	311	18	6,484			1		•••	*****			
Total, Sind Circle	6,883	7,512	86,138	921	148	37,847		•••				···· · · · · · · · · · · · · · · · · ·			
GRAND TOTAL	122,0	25	39,620	921	2,547	1,06,770		,661	172,808		Ì			····•	
		1	Į	- 1	· ·				,000	***	₩JU15¦2	≤,V4,068 →	0 0	14,29,756	0 (

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# in the State Forests during 1912-1913.

		<u>.</u>	<u> </u>	•.	GRAN	ure Fars-	NUMBER O	T ÅRTHALS,								
	B	y right un	lør Settle	ment.			During pl	afure of Oc under	r Settlemer	or otherwid	ie then		{		•	
Buffaloes.	Come and Bullocke,	Gosts and Sheep.	Camels.	Other Ani- inals,	Value of Fees at full rates.	Buffaloes.	Cowa and Bullooks.	Gosts and Sheep,	Camels.	Other Animals.	- Value of st full n	Poes Ates.	Total valt Fcos at ( rates.	ના	Grand Ty value of at full n	Page 1
 	16	17	18	19	20	· 21	23	23	24	<b>3</b> 5			57			
· • •					Rs. s. p.						Rs.	s. p.	Rs.	<b>s.</b> p.	Ra,	<b>a</b> ,
	•••		•••	•=•		24,808	86,569	-	9aş	•••	67,592	0 0	67,592	0 0	68,859	0
	•••					2,784	22,148				28,028	0 0	ł	0 0		
+#0	•••	***	••••		******	9,568	61,229				50,228	0 (	60,928	0 0		
	•••	•••	1			11,782	51,372	+++	···· ·		46,833	0 0	( ·	<b>6</b> 0		
{	***	+			••••	7,044	72,281	 	•••		63,981		ł	0 0		
602	1,813	•••	•••		2,415 0 0	2,524	6,871	•••			8,895	0 0		-		
602	1,813	. ***			2,415 0 0	58,010	299,970				2,55,552	0 0	2,57,967	0 0		
					• • • • • • • • • • • • • • • • • • •					·[	<u></u>	•		_		
	4.04	•+*				3,886	13,617	•••		43	17,546	0 0	17,546	0 0	2,75,465	6 0
	•••	***			··· ·	1,038	12,827	734	· · · ·	59	14,653		14,653	0 0		
		•••	·			6,093	14,503			18	2,575			0 0		
	}	•••			· · · · · · · · · · · ·							10		- •	2,04 - *	
•••		•••			•	1,050	4,500	} ••ъ		800	5,850	0 0	۰ ۱		1	
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•••		•••		•••		12,090	45,558	734	***	415	40,761			•		
										$\left( \cdot \right)$						
	•••	•••		***	*****		028	***	***	] ]						
	•••	•••	•••		*****	· •••		***	•••	]/						
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-	<b></b> -					1	•		7							
1,188	5,019	•••		67	5,608 0 0	8,610	16,731	Y	ſ							
881	2,930	•••		1	2,821 0 0	184	201	1,083								
12	370		ŀ	•••	826 0 0	28	182	/								
506	434	61	2	11	1,571 0 0	191	<b>5</b> 30	9								
8,581	8,783	61	2	79 1	0,226 0 0	4,013	16,594	7								
,183 1	10,598	61	8	79 15	2,641 0 0	449,1		ſ								

Di-i-i -	Kind of Plantation.		Area	IN AOBE	9.	זענ	TNA THE	TOTAL EX TURE	FROM	Bevenue during the year.	Total revenue from date of	Remark
Division.	Kind of Plantation.	On 1st July 1912	110	Excluded during the year.	Area on 30thJune 1913.	Crea- tion.	Upkesp.	Creation.	Upkeep.	-	creation of plan- tation.	,
`1	2	3	4	5	6	7	8	9	10	11	- 12	13
	NORTHEBN CIRCLE.					Rs.	Rs. a. p.	Bs.	Rs.	Rs.	Rs.	
anch Maháls	Begular plantations	4,189	239	•••	4,428	352	866 0 0	9,899	10,992			* In form years c
arat	Ďo,	1,422		•=•	1,422	1,361	467 0 0 592 0 0		6,959 6,132		- + + + + + + + + + + + + + + + + + + +	tural oper tions
entral Thána outh do,	Do Do	1 00		***	9 90	***	835 0 0	1,955	8,517			coupes w included
olába	D.	1 50	7		<b>6</b> 6	376	276 0 0	1,259	1,014	51	349	the regular the re
i	Total	5,769	246	<u>.</u>	6,015	2,079	3,036 0 0	28,890	33,614	51	349	tions. Ti aro i rolegat
anch Mahála	Cultural operations		35		85	2		2				to their per plac
orth Thána	Do.	. 715	141	-48	856	137+	******	1,212		•••		†Besid this Bs.
entral do outh do	<b>b</b> .	1 207	417 3,745		417 3,745	88‡ 24	*****	88 85 85	*** ***			were si for the
	1		•	· <u> </u>				1.047			•	bam b
	Total Total, Northern Circle				5,053 11,068	251 2,330	3,036 <b>0</b> 0	1,347 24,737	33,614		849	Besid Besid this
		. 10,004		3,200		-,000					-	amount Rs, 16 Waspai
ast Khándesh	CENTRAL CIRCLE. Regular plantations											the cos plants i the Bo
/est do	. Do		***				*** *** **					cal gard Poona.
orth do uth Násik	1 h.	1 1 4 0		4		154	9== ++	•••		7	•••	
orth do	Do.						******					1
oona ···	1 Do	179		1	179	316	. '		•••	•••	•••	ł
• •		827		4	831	470				7	╺┤─────	-1
	(nitra) montions			-		233						-
•	- Do.	64 - 944	80		***	909	*****					
	- 40.040 Sen	•••••				•••	*****			•••	•••	1
	1 1		1 11		+++	287	*****			•••	***	
		•••	50 1,19		844	846 2,438	******			***	•••	
	•••	, , , , , ,	2,69			4,718	*****	711				-1
			Ţ		-			_ <del> </del> _	-		-	-
			2,70			5,183				7		-
				8 29			95 0 0	59,864	1,267	1,730	11,190	
			•••	7 <b>3</b> 3 1,053		3,246	*****	6,583 23,419	15,499		329	
		•	i.	265	10	10		1,535		293	3,213	
				3 1,374	144		164 0 0 259 0 0		2,517 19,576	-		-1
				5.		1,129	*****					-
				ž		59	*****	•••	•••	•••	***	
				»{		1,188	*****	••••				-
				374	1,000	19,917	259 0 (	94,753	19,576	2,245	22,811	-1
				۱ <u>۱</u>					,			
				5	227	1,226	4,597 0 0 246 0 0		44,291		6,128	
					- 35	81	1,494 0 0	690	1,820 6,709	841	2,548	1
					19	-	471 0 0	362	2,767	***		_
					293		6,808 0 0		55,087		8,676	
					1,236	292	224 0 0	1,634 426	828 2,683			
					7,019 833	10	1,344 0 0	1,486	6,359	••••	***	
					 600		109180	3,242	8,795	_	•••	
					3	448	J,568 0 0	6,788	18,615	***		
					4	1,806	8,376 0 0	11,236	68,702	642	8,676	
					•		11 871 0	· ] <del> </del>				_1

0 1,30,726 1,21,892

29,236 11,671 0

2,945

81,836

#### FORM No. 18 .- Statement showing Area of Plantations in the Bombay Presidency, including Sind, ٠

FORM No. 19.

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			8														
			Trad	BER IN TH	ie bou		Logs.	TIM	BER IN T			LES.	541	WN OB SC	<u> </u>		
Livision.			Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government	Purchasers.	Free grantces.	Right-holders.	Total.	Government.	Purchasera.	Free grantees.	Right-holders.	Total.
1			2	8	4	5	6	7	8	9	10	11	12	13	14	15	16
NORTHERN CIR Reserved Forest			C. ft.	C. ft.	C. ft.		0. ft.	C. ft.	C. ft.	C. ft.		C. ft.		C. ft.			C. ft.
North Thána	•••	••	***	19,219			19,219	884	<b>424,</b> 713	•••		425,597		480		•••	- •••
Central Thâna 🔐	100	••	2,705	15,382		141	18,087	184	607,881	184	***	607,759	40	10,588	34	••	10,662
South Thána	*95	•••	•••	46,268	•••	<b></b>	46,268	<b>9</b> ,139	189,237	20,446	•	218,822		<b>36,2</b> 80		•••	86,280 
Surat	**	•	<b></b> '	1,606	•••	•••	1,608	1,195	17,886	3,352	- <b>***</b> *	22,433	•••	***			•••
Panch Maháls	***	<b>4</b> ,	2,230	3,773	•••		6,008	256,135	48,370	436	***	304,941	1-0	•••			•••
Koléba 😽	***		•••	25,865	•••	•	25,865	599	107,507	2,006	***	110,112	1.0			•••	<b>8</b>
zerved	Forest	181	<b>4,93</b> 5	112,113		•••	117,048	268,136	1,895,104	26,424	•••	1,689,664	40	46,868	34	•••	46,942
				2,544	+ * *	•••	2,544	130	121,182	2,049		128,361					· · ·
				]	. ***	•••	9,928	•••	76,284	986		77,270	•••	604			604
					`, 194 `	•••	90,509	***	.83,133	•••	•••	83,183	•••	82,627			82,627
				ł	··· ۲		102,981	Ì30	280,599	3,035	•••	283,764		83,231	•••	•••	83,291
								s-+	40,164		•••	40,164			•••	•==	•••
						,		904	711			1,615				244	
							)   	•••		6,719	•••	6,713		,		•••	***
							Ŧ <b>6</b> .	904	40,875	6,718	#40	48,492	•••		•••	••••	•
									27,393		120,000	147,393	•••			•••	
									1,748,971	\$6,172	120,000	2,169,813	40	130,099	34		180,178

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

#### during the year 1912-1918 and Agency of Exploitation. 1

·	· Miso	CELLAN	EOI'S.			Тот	Tib	BER.		- <b></b>		Fue			
Government.	Furchasers.	Free grantees.	Right-holders.	l'otal.	Government.	Purchasers.	Free grantees.	Right-bolders.	Total.	Government.	Purchaser <del>a</del> .	Free grantees.	Right-holders.	Total.	Total Outtarn.
17	18	19	20	21	22	23	24	<b>2</b> 5	26	27	28	29	30	31	82
	C. ft.			C. ft.	Ċ. ít.	C. ft.	C. it.	C. ft.	C. ft.	C. ft.	C. ft.	C, ft,	-C. ft.		C. ft.
, 827	510×	- 348	1+3	1-1	88 <del>1</del>	418,932		•==	444,816	5,851	1,114,740	***	980,000	2,100,591	2,515,407
+41	2,804			2,804	2,929	636,165	218 -		639,312	9,400	1,068,252	•••	413,0(0	1,490,652	2,120,064
***		•••			9,139	271,785	20,445	+ 4 1	301,370	1,128	558,677	•••	2,439,960	2,999,165	8,300,535
424			<b>78</b>	·••	<b>1,195</b> i	19,492	3,352	•••	24,039	•••	83,780			83,780	107,810
•••	•••		•••	••	258,365	52,143	436		310,944	63,460	545,840	300	961,600	1,571,200	1,982,144
<b>400</b>				•••	599	<b>133,</b> 372	2,006	<b>48.</b>	135,977	36,090	741,566		· · <b>·</b> · · ·	777,046	913,623
<b></b>	2,804	•		2,804	273,111	1,536,880	26,458		1,856,458	1)5,919	4,112,255	300	4,794,560	9,023,034	10,870,492
	-					·									
• • •	•••		•••	•••	130	123,726	2,049	***	125,905	***	806,460	141	•	306,460	432,305
<b>4</b> **	9,824		346	9,824	9.598	87,0.2	986	- 	97,626		1,132,280		<b></b>	0د 1,132,2	1,229,906
		•==		196	•••	256,269		•••	256,269		267,050	•••		267,050	523,925
	9,824	•••	·	9,824	9,723	467,037	3,035		479,800	•••	1,706,396	••••		1,706,896	2,186,196
				· •••	•	40,164			<b>4</b> 0,164	-	20,960	•••	•••	. 20 <b>,</b> 9f	<b>61,1</b> °4
***		•••		r 	904	711		, 	1,615	40	•••	340		•	1,655
		•••	•••	••••	•	•••	6,713	•••	6,713		•=•	- 			6,713
***			•••		904	40,875	6.713		48,492	40	20,980			21,000	<b>69,4</b> 92
						82,180		120,00(	- 202,180	8,616	40,380	045	7,576,000	7,624,998	7,827,176
	12,628			12,628	283,743	2,146,981	36,206	120,000	2,586,930	124,575	5,879,991		12,370,560	18,875,428	

In all cases columns 5, 10, 15, 20, 25, 30 estimated; the other columns actuals. In all Divisions except Surat Range's sent in<sup>3</sup> Purchases estimated—Timber, one khandy per 3 people; Fuel, 2 cart-loads= 50 c. ft. per family, value 2 as, per cart-loa L Next year it is proposed to call on all Divisional Forest officers to base their estimate on the same fixed principles. . u 850—33 . · . . .

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

	Tixe	EE IN TH	B BOUG	н: Г	0 <b>G8</b> .	Тімві	R IN THE	BOUGE	r : Po	LES.	SAWS	I OB SQU	BED	TIME	ER,
Division.	Government.	Parchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantces.	Right-holders.	Total.	Government.	Purchasors.	Free grantees.	Right-holders,	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CENTRAL CIRCLE.	C. ft.	C. ít.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	   	C. ft.					
East E handesh	••	•••	•	•••	***	418	106,281	2,080		108,779	•••	•••		•••	***
West Khåndesh	•	<b>14,4</b> 40	•••	•••	14,140		113,087	10,905	•	123,992		•••	• 4 1	•	9 <b>29</b>
North Khándesh	•	3,484	1,302 -	70	4,850	308	55,9 <del>4</del> 6	6,485	1,717	6 <b>4,</b> 456			<b></b>	•••	•••
South Násik 🚥	••• •••	834,900	***	•••	834,900	8,028	1,730	5,905	2	15,680	• ••	,		•••	•••
North Násik	•••	105,624	2,974		108,596		•-•			•••	••		2.00		146
Poons	. 1,140	12,717	330	•••	14,197	8,278	167,073	1,577	7	176,928			•••	•	
• Sát 1 <b>a •••</b> •••	•		•••	••••	•••	<b>3,</b> 405	87,645	24,620	e4+	120,670	•••			••:	
Total, Central Circle	., 1,140	971,175	4,606	70	976,991	25,437	531,762	51,569	1,717	610,485	•••				•==
· · · · · · · · · · · · · · · · · · ·							1			1					1

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## during the year 1912-1913 and Agency of Exploitation-continued.

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·	Міео		SOUS.			Тот	LL TIMBE	R.				FUBL.		<b> </b>	TOTAL.
Government.	Purchasere.	Free grantees.	Right holders.	Total.	Jeveranout.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantces.	Right-holders.	Total.	Outturn.
17	18	19	20	21	22	. 23	21	25	26	27	28	29	80	81	82
	C. ft.	C. ft.		C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	0. ft.	C. ft.	C. ft.	C. ft.	C. ft.
***	1,075,510		•-•	J <b>,</b> :89,760	418	1,181,791	7,330	•••	1,189,539	12,240	705,042	780	•••	718,062	1,907,601
. 100		•••	•∳₽	•••		127,527	10,905	***	138,432	•••	356,495		100,000	457,995	596,427
•••	1	•••	•••		<b>30</b> 3	59,430	7,787	1,787	69,312	•••	537,000	1,860	72,220	611,080	680,392
<b>563</b>		•••	•••	1	8,028 <sup>.</sup>	836,630	5,902		850,560	14,061	21,533		125,000	160,594	1,011,154
•••		•••	•••		- 349	105,624	2,974		108,598	153	82,200	•••		82,353	190,951
, <b></b>	•••	••••	•••	•••	9,418	179,800	1,907		191,125	272,553	440,481			713,034	90 <b>4,1</b> 59
•••	-**		••• `	•••	8,405	87,645	24,620		120,670	42,905	2,283	•••		4 88	105,868
•••		5,250		1,080,760	26,577	2,578,447	61,425	1,787	2,668,236	.341,912	2,145,034	1,140	297,220	2,758,30 <del>6</del>	i,45 <b>6,</b> 542
					,,,										, 

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· ·	Тты	BER IN	THE R	отен : Т	065.	TIM	IBEE IN J	HE BOI	оен: Роз	LRS.
Livision.	Government.	Parchasers,	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.
1	2	3.	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE.	C. ft.	C. ft.	C. ft.	C.ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	<sup>.</sup> C. ft.
anara, Northern	<b>, 1,040,87</b> 7 ]	173,223	628	• •••	1,214,228	2,774	98,643	·	••• <b>\$</b>	101,417,
						-		• - -	· .	
Várara, Souttern	7,646	32,641	3,446	•••	43,733	•••		107		107
(álara, Eastern	•• 211,280	24,587	3,419	•••	239,286	7,816	66,073	••	-	73,889
· ·										
Tánara, Western	. 100,775	94,627	6,515	•••	201,917	4,616	397			5,013
Belgan	1,997	8,055	937	•••	5,989	<b>44</b> 6	33,986	4,012		38,444
Dhárwár	327	38,128	•		38,455	2,486	66,251	315	•••	69,052
		· .		,				1		
Bijapur			•••	***		•••	1,963	* <b>-</b> \$		1,963
Ratnágiri		•••	•••			•••	599	1,817		2,416
Total, Southern Circle .	• 1.362.402	366,261	14,94ō		1,743,608	18,138	267,912	6,251	<b></b>	
. –								(),601	***	292,301
				 		. [		-	-	
			1					-		

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

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## during the year 1912-1913 and Agency of Exploitation-continued.

SAWN	OR <sup>I</sup> SQUA	RED '	LINB	ER.		MISCELLANBOUS	•
Government,	Purchasers.	Free grantces.	Right-holders.	Total.	Government.	l'urchasers,	Freo grantces.
12	13	14	15	]6	17	18	19
. ft.	C. ft.	C.ft.	C.rt	C. fb.	·		•• <u>••</u> ••
208,675	28		••••	°08,703	Sandalwood Kh. mds. lba. I 19 10 Bark carts # Rejec t e d stumps 24 Pieces 60	******	••••
•••	• • •	•••	••	•••	Sandalwood— Kh. mds. lbs. 41 17 10	******	<b>400</b>
<b>5</b> 5,492	103		•••	56,600	Sandaiwood — Kh. mds. lbs. 12 14 27 Bark-wood 2 Chips Cart loads 2		••••
	•••		••		******	******	
9,895	19,875		•••	28,770	 Fandalwood Kh. mds. lbs. 24 13 20	******	******
<b>6,1</b> 22	4,519		•••	10 641	Sandalwood Kh. md. lbs. 102 J2 11 Chips bags No. 491		••••••
		ĺ			Roots, pieces 5,274 Bark carts 107	•	
•••			<b></b>	***		1,990 Sandalwood trees 30	******
•=•	**•	•••	**•	•45	*****	*85989 1	+1+,
281,184	24,530			305,714	Sandalwood- Treeg 30 Kh. mds. lbs. 185 17 22 Bark Carts 107 <sup>‡</sup> Rejected Stumps 24 Pieces 60 Chips Carts 2 Boots and pieces 5,274 Chips bags 491	1,990	

ar N	1			ees
નીત		nout	· sets	
it-li		, uu	hae	ů,
Right-holde:s	Total.	Gove: nmout.	Purchasers,	Free Grantees.
20	21	22	23	24
			- 	
1	PPIace	1,251,826	271,894	- 628
	Sandalwood- Kh. mds. lbs. 1 19 10	Sandalwood- Kb. mds. lbs. 1 19 10		•
	Bark cart Z	Fark cart-loads 💈	\$	
•	Rejected stumps 24	Rejected stumps, 24	· ·	•
· .	Pieces 60	Pieces 60		ł
			00.041	0.550
¥11,40	Sandalwood.	7,646 Sandalwood	32,641	3,553
	Kh. mds. lbs.	Kh. mds. lbs.		
	41 17 10	41 17 10		•
-		275,588	90,768	3,419
	Sandalwood-	Sandalwood-		•,•
	Kh. mds. lbs. 12 14 27	Kh. mds. lbs. 12 14 27		
	Bark wood 2 Chips cart	Bark wood 2 Chips cart-loads 2	ľ	
	loads 2	Compo Cat (Floado #		
	******	105,391	95,024	6,515
		· ·		
ν.				
345° **	Sandalwood	i 12,339 Sandalwood	56,916	4,949
	Kh. mds. lbs. 24 13 20	Kh. mds. lbs.		·,
		24 13 20		
P41	•••••	8,935	108,898	3.5
	Sandalwood- Kh. mds. lbs.	Eandalwood-		
	102 12 11 Chips bags	102 12 11		
	No. 491	Chips bags No. 491		
	Roots, pieces 5,274	Roots pieces 5,274		
	Bark carts 107	Bark carts 107		
		******	. <b>3,</b> 953	106
	1,990 _Sandalword		Sandalwood trees 30	
	Trees 30			-
v ,			· · ·	
*****	******	, •••	599	1,817
				l l
	1,990 Sandalwood	1,661,724	660,693	21,196
	Trees 30 Kh. mds, lbs.	Sandalwood—	Sandalwood trees 30	-
	185 17 22	185 17 22		. I
	Bark carts	Bark carts 1074		
	Rejected Stumps 24			· · · · · · · · · · · · · · · · · · ·
	Pieces 60	Ching costs 0		ĺ
	Chips Carts 2 Roots and	Roots and pieces	}	
	pieces 5,274	5,274 Chips bags 491		
	Chips bags 491	-	<b>)</b>	

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## during the year 1912-1913 and Agency of Exploitation-continued.

TOTAL TIMB	EB-continued.			FUEL.			
Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Total Outturn.
25	26	27	28	29	.80	31	32
· ·	-	C. ft.	 C. ft.			C. ft.	·
	1,524,348 Sandalwood— Kh. mds. lbs. 1 19 10 Bark cart-	621,465	550,779	C. ft.	C. ft.	1,172,244	2,696,592 Sandalwood— Kh. mds. lb 1 19 1( Bark cart-
•	loads ‡ Rejected stumps 24 Pieces 60	-	• •	,			loads Rejected stumps 2: Pieces 60
	43,840 Sanda\wood— Kh. mds. lbs. 41 17 10	222,417	805,515	1,000	•••	1,028,932	1,072,775 Sandalwood— Kh. mds. lb 41 17 10
•••••	369,775 Sandalwood— Kh. mds. lbs. 12 14 27 Bark wood 2 Chips cart loads 2	<b></b> 1	177,767	19,087	••••	196,854	566,62 Sandalwood— Kh. mds. h 12 14 2 Bark wood 2 Chips cart loads 2
••••••	206,930	15,712	1,326,710	2,547	γ	J,844,969	1,551,89
<b></b>	74,203 Sandalwood— Kh. mds. lbs, 24 13 20	2,689,976	947,300 	2,150		8,639,426	3,713.62 Sandalwood Kh. mds. 11 24 13 24
••••	118,148 Sandalwood Kh. n.ds. lbs. 102 12 11 Chips bags No. 491 Roots and pieces 5274	1,750	523,613	100		527,463	645,61 Sandalwood Kh. mds. H 102 12 1 Chips bags No. 49 Roots and piecos 5,274
• • • • • • • •	While bark cart loads 107 3,953 Sandalwood trees 30	<b>44,2</b> 50	128,428	••••	·	172,678	Bark wood carts 10 176,63 Sandalwood trees 30
· · · · · · · · · · · · · · · · · · ·	2,416	•••	64,334		•••	64,384	<b>6</b> 6,800
300,000	2,643,613 Sandalwood— Trees 30 Kh. mds. lbs. 185 17 22 Bark carts 1078 Reje c t e d stumps 24 Pieces 60 Chips carts 2 Roots and pieces 5,274 Chips bags 491	8,595,570	4,526,496	24,884	3,041,686	11,188,636	13,832,249 Sandalwood Trees 30 Kh. mds. lbs 185 17 22 Bark carts 107 Rej e c t e d stumps 24 Pieces 60 Chips carts 2 Roots and pieces 5,274 Chips bags 491

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	I I I I I I I I I I I I I I I I I I I
Franze Ma 10 /	utturn (in cubic feet, solid) of Timber and Fuel
LORW TIO TR	LLEVATO FIN CILLUC TREE ROUGH OF TIMORT AMA PURE

	TI	CBER IN	THE RO	лен:	Logs.	Тім	BER IN T	HE ROU	сн:Р	OLES.
Division.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government	Purchasers.	Free grantees.	Right-holders.	Total
1	2	8	4	5	6	7	8	9	10	11
SIND CIRCLE.	-0. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C.ft.	C. ft.
Reserved Forests.	FEO	7 009		, I						l
ukkur		1,003 42,765	84 •••	••••	1,843 43,393	173 1,590	788 27,545			1,256 30,739
Total .	. 1,384	43,768	84	•••	45,236	<b>1,763</b>	28,333	1,899	••••	81,995
							·		 	[
(Actuals .	. 4	36	66		106	•				}
ausháhro Estimate		50,150	•••	••••	50,150		3,080		•••	 8,240
Total, .	. 4	50,186	66		<b>50,2</b> 56	160	3,080		•••	3,240
(Actuals .	153	764	171		1,088		. 94			
Tyderabad Estimate		60,900	•••	•••	60,920		2,169	••• 50	•••	. 94 2,269
Total .	. 173	61,664	171		62,008	50	2,263	50	••••	2,363
Actuals		· 24	328							
erruck Estimate .	}	••••	•••		352 	23 •••	••• 55,886	 341	•••	23 55,727
Total .	.,	24	. 328	•••	852		55,386	 341	144	55,750
Total, Sind Circle .	. 1,561	155,642	649		167,852	1,996	89,062	2,290	 • •••	93,348
										-
GRAND TOTAL	1,377,936	1,753,361	20,200	70	3,153,267	314,741	2,632,707	96,282	121,717	3,165,447
• •							-		•	
	}									
			}		-		· · · ·			· ·
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during the year 1912-1913 and Agency of Exploitation-concluded.

Sawn	OR SQUA	RED	Tim	BER	M	IBCHLLANBOUS.	
Government,	Purchasers.	Free grantees.	Right-holders.	Total,	Government	Ригсђаветв.	Free grantees.
]2	13	14	15	16	. 17	18	19
C. ft.	. C. ft.	C.ft.	C.ft.	C. ft.	. C. ft.	C. ft.	C. ft.
	•••		·	~***	· • • • • • •	••••••••• , .	
						••••	
•							
***			•••	 	 	 100,571	114 814
•••			••••	•••	447	100,571	928
•••		•••	•••	•••	, ••••	******	******
•40	+++				••••••	******	
••••	 43,810	349 	••••	349 43,810		•••••••	
•••	43,810	849	·	44,159	•••••	*******	*** ***
•••	43,810	34,5	••••	44,159	447	100,571	. 928
,				•	-		· • •
281,224	198,439	893	•••	480,046	447 Sandalwood- Trees 30 Kd. mds. lbs. 185 17 22 Bark Carts 107 <sup>2</sup> 107 <sup>2</sup>	1,190,699	6,178
					107 <sup>2</sup> Rejected Stumps 24 Pieces 60 Chips Carts 2 Boots and pieces 5,274 Chips bags 491		•

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

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MISOBLLANEO	UB-continued.		TOTAL TIMBER,	· ,
Right-holders.	Total,	Government,	Purchasers.	Free Grantees.
20	21	22	23	24
	C. ft.	C. ft.	C. ft.	C. ft,
*	•• /886 '	929	1,791	. [379
40£ 18 <b>9</b>	*****	2,218	70,310	1,604
*****	•••••	3,147	72,101	1,983
*****	114	<b>4</b> .1	36	180
******	101,832	607	153,801	814
34010b	101,948	611	158,837	994
		· · ·	•	
*****	*****	153	858	171
••******	******	70	63,069	50
·····	4 8 i 8 6 6	223	63,927	221
		:	3	
*****	******	23	24	677
****** ·	prinda	*****	90,196	311
		23	99,220	1,018
. 1680e	101,946	4,004	389,085	4,216
			•	
é faites	1,197,324 S and alwood Trees 30 Kh. mds. lbs. 185 17 22 Bark carts 1073	1,976,048 Sandalwood Kh. mds. lbs. 185 17 22 Bark carts 1073 Rejected stumps	5,775,206 Eandalwood trees 30	123,043
	Rejected Stuaps 24 Pieces 60 Chips Carts 2 Boots and pieces 5,274 Chips bags 491	Pieces 60 Chips carts 2 Boots and picces 5,274 Chips bags 491		Э

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# during the year 1912-1913 and Agency of Exploitation—concluded.

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IOTAL TIMB	EB—continued.			FUBL.			TOTAL.	
Right-holders.	Total.	Government.	Ригсћазега.	Free grantees.	Right-holders.	Total,	Outturn.	
25	26	27	28	29	30	81	82	
· · · · ·	C. ft.	C. ft.	0. ft.	C. ft.	C. ft.	C. ft.	C. ft.	
145* 10	3,099	• <b>86,</b> 459	3,705,716	Jan		8,792,175	3,795,274	
*****	74,132	3,149	1,361,744	405	•••	1,365,298	1,489,430	
J 498948	77,231	89,608	5,067,460	405		5,157,473	5,234,704	
					•			
	220	100,102	915,477	•••		1,015,579	1,015,799	
******	155,222	1,053	590,274	•••	178,022	769,349	924,571	
••••	155,442	101,155	1,505,751	•••	178,022	1,784,928	1,940,370	
			· [			_		
*****	1,182	93,508	3,834,550	•••	•••	3,928,058	8,929,240	
· ···	63,189	` <b>641</b>	3,822,013	•••	5	8,322,654	3,985,843	
• * * * *	- 164,371	94,149	7,156,563		***	7,250,712	7,815,08:	
2		·	· [			-	· · · · · · · · · · · · · · · · · · ·	
	724	36,354	2,174,024	•••		2,210,378	2,211,102	
•••• <b>•</b> •	99,587	926	3,391,518	•••	•••	3,392,444	8,491,981	
1.1.4.0	100,261	37,280	5,565,542	***	***	5,602,822	5,703,083	
• • • • • •	397,305	322,192	19,295,316	405	178,022	19,795,985	20,193,240	
· · ·								
				-		-		
421,787	8,296,034 Sandalwood— Trees 30 Kh. mds. lbs. 185 17 22 Bark carts 1072 Rej e c t e d stumps 24 Pieces 60 Chips carts 2 Roots and pieces 5,274 Chips bags 491	4,384,249	31,846,837 •	29,729	15,887,488	52 <b>;</b> 148,303	<ul> <li>✓ 60,444,387</li> <li>Sandalwood—</li> <li>Troes 30</li> <li>Kd. mds. lbs</li> <li>185 17 22</li> <li>Bark carts 107</li> <li>Rej e ct e d</li> <li>stumps: 24</li> <li>Pieces 60</li> <li>Chips carts 2</li> <li>Boots and</li> <li>pieces 5,274</li> <li>Chips bags 4∂1</li> </ul>	

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				P.	RODUC	E REMOVI	BD OR UT	ILIZBD.				
Description of Produce.	By Govern Agency		Вуд	urchasers	•	By free-g	grantees.	By right	-holders.	I	'otal.	
	Quantity.	Value.	Quantity.	Value	3.	Quantity	Value.	Quantity.	Value.	Quantity.	Val	ue.
1	2	3	4	5		6	7	8	9	10	11	
NORTHERN CIRCLE.		Rs.		Rs.	а. р.		Rs.		Rs.		Rs.	a. p
State Forests.								1		[		
Palm leaves Karvi		***	•••	1,690 1,220	0 0 0 0	***	•-•			******	1,690 1,220	00
Grass and grazing Bamboo seed	****	308	•••	41,147	0 0	***	• • •	•••	2,71,528	*****	3,12,675	0 0
Bamboos	***			£8,215	0 0	•••	108	***	10,416	***	38,739	0 (
Hirda nuts	***	•••	•••	11,341 2,635	0 0 0	••••	•••	•••		******	11,841	0 (
Chilhari bark		***	•••	1,001	0 0	***	***			*****	1,001	0 (
Gum Mhowra seed	100-00	***		9,461 2,468	0 0 0 0	•••	***		•••	******	8,461	0 (
Shikekái	*** **		•••	500	0 0	•••				*****	2,468	0 (
Stones	******	•••	•••	22 62	0 0				***		22	0 0
Manganese ore		100		8,645	0 0		••••	···		******	62 3,645	0 (
Miscellaneous	***	61	••••	352	0 0		2		61,632		62,047	0 0
Total, State Forests	*****	369	+10	97,759	.0 0		110		3,43,576	•••••	4,41,814	0 0
			-			.	·		·	·	¦	
Leased Forests.												
A'pta and Tembhurni leaves.		***	•••	321	0 0	•••				*****	321	0 0
Mhowra seed Bosha oil	******	***	•••		0 0	•••	•••	•••			41	Ŭ Č
Grass and grazing	*** **	*==	444	306 1,744	0 0 0	***	***	••••	•••	******	306 306 1,744	0 0
Miscellancons	•••••	•••	•••	2,029	0 0	·•	•••	•••		******	2,029	0 0
Total, Leased Forests				4,441	0 0		••• 、		••1		4,411	0 0
Total, Northern Circle		369	•	1,02,200	·0 0	 	110		3,43,576	***	46,255	0 (
CENTRAL CIRCLE.			-					=	·	<u>_</u>		
Hirds and Shikekai	* Kh. 156	7,522		12,149	0 0							
Mhowra seed	Tons. 93-2-1-16	-				140					19,671	0 0
Rosha grass	******	11,999	•••	110 10,616	0 0	•••		•••			72,109	0 0
Leaves, pods, bark, etc	•••···		•••	8,889	0 0	•••	•••		24	*****	10,616	06
Earth, stone, murrum, etc	******	42		1,449 2,799	0 0	•••	 91e	•••		•••••	1,449	00
Grass and grazing , Famine Fodder	•••••	,	•••	3,61,116	0 0	•••	315	•••	300 31,132		3,456	0 0
Miscellaneous		2,46,289	***			***	•••			******	3,9?,248 2,46,289	0 (
Bamboos Tahal	No. 450			517 <b>14</b> ,230		19,583	231	3,200	* 32	••••••	517	0 €
					••				3,625	· ••	14,509 3,625	0 ( 0 ()
Total, Central Circle	Kh. 156 Tons. 93-2-1-16 No. 450	2,65,868	12,01,246	4,11,875	0 0	19,583	546	3,200	35,113	******	7,12,402	0 (
SOUTHERN CIRCLE.								•				
Bamboos	•		15 05					ļ .			1	
Grass and grazing Harda, Cinnamon, Shikekái Honey, Wax, Surgi Nux Vomica, Ramfal aud Rampatri.	18,938	28,448	45,05,659 	48,447 74,685 36,526	0 0 0 0 0 0	32,172	265 1,611 	····	···· ··· ***	45,37,831 18,938	48,712 1,01,744 36,526	0 0 0 0 0 0
Hulgal seeds	******	•••		1,044	0 0							
Tumri leaves	*****	•••	 	1,779	0 0	•••	***	***		*****	1,014	0 0
Kadnis	***.## **	•••	•••	309 7	$\begin{array}{cc} 0 & 0 \\ 0 & 0 \end{array}$	•••	***	***	•••	******	1,779	00
Stakes or pegs, thorns and creepers.	******	(** 194	•••	-	0 0	•••		••••	····	****** ******	7 405	0 0 0 0
Carried over						· · · · ·						
						1	•••	848	•••	******		•

## FORM No. 20.—Outturn of Minor Forest Produce during 1912-1913.

\* For its. 1,291 no quantity is shown since this revenue is of last year's hirdn.

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# FORM No. 20.—Outturn of Minor Forest Produce during 1912-1913—continued.

,					PR	ODUCE REMO	VED OR UT	LIZED.			
	Description of Produce.	By Gove Agen	ernment icy.	By pur	chasers.	By free	grantees.	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
			Rs.		Rs. a. p.	·	18. a. p.		 Rs.		
	Brought forward	•••	•••	******			•••	•••		*****	Rs. a. p.
sc	OUTHERN CIRCLE— continued.		· · ·	••••••••••••••••••••••••••••••••••••••		•   •					-
Can Tap	es	•••	***		646 0 0 1,530 0 0			•••	***	******	646 0 0
Qua	rrying fees		•••	*****	8,727 0 0	***	988 0 0	***		\$49\$48 \$5\$***	1,530 0 0 9,715 0 0
Tali	palm leaves		•••	******	2,060 0 0 660 0 0	+++	***	•••			2,060 0 0
Dhu Und	li soodo	•••	•••		240 Q O	***	•••	***	***	******	660 0 0 240 0 0
Silk	cotton	•••	***	*****	20 0 0 300 0 0	+++	•••	•••	•••	••••	20 0 0
Kar Sop	N		- • •	*** • • •	56 0 0	***	***	•••		*****	300 0 U 56 0 C
	ing permit	•••	, •••	*****	900 200	•••	***	•••		*****	900200
Gur	Juler money	•••			1,418 0 0	***		***	••• •••	*****	2 0 0 1,418 0 0
Ban	durbi	•••	•-• •••		2 0 ,0 390 0 0		•••	•••	N	*****	200 39000
	vad bark cki bark			*****	5,846 0 0	***	***	***	•••	****** *** **	390 0 0 5,846 0 0
Bib	ul pods	•••	444 744	****** \******	1,995 0 0 1,193 0 0	•••	•••			*****	1,095 0 0
Báb Frui	ul and Mattal leaves	•••	***	******	36 0 0	***	***	•••	***	*****	1,198 0 0 36 0 0
	cellaneous	•••	•••	******	5 U O 149 O O		••••	· · · ·	***	*****	500 14900
					,		····				
T	otal, Southern Circle	••• <sup>•</sup>	28,448	F88498	1,88,464 0 0	• • 2	2,886 0 0	•••	•**		2,19,798 0 0
	SIND CIRCLE.								-		
ſ	Vegetables, fruits and flowers.		56	******			•••				56 0 0
Ì	Fruit		135			•					185 0 0
	Plant Mango fruit	1	1	Contra at		•••	•••		•••	1	100
ļ	Kanh grass		•••	Contract. 205 bundles.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	• • •	2 0 0	····	•••	Contract. 213 bundles.	275 0 0 15 0 0
	Bábul pods			Contract.	]	=8 bundles	. 200				577 0 0
Sakkur.	Kandi pods		•••		577 0 0 4 0 0			•••	•••	Contract.	4 0 0
31	Sur-reed grass Jow brushwood	•••	•••	Contract. 585 bundles.	986 0 0 37 0 0		***	•••		Contract. 593 bundles.	986 U O 89 0 U
<u>ا</u> "	\ \	•••	•••			4 Cart-loads =8 bundles	5 <b>2 0 C</b>	•••	•••		
	Dabh grass Bábul seed	•••	••• •	766 bundles	48 0 0 31 0 0		•••			766 bundles.	48 0 0 31 0 0
	Lopping of babul, ba-	, 	•••	643	37 0 0		•••	•••	•••	643	37 0 0
	ban and kandi bran- ches-										ł
	Sur-reed	•••		1 Cart load.	100					1	100
· l	Straws Grazing	* ***		1 do.	1 0 0 11,639 0 0		8,417 0 10	•••	5,608	1	1 0 0 23,664 0 0
	Total		192	•••••	13,649 0 0	•	6,421 0 0	••••	5,608		25,870 0 0
٢	Babul seed,	5 Mds.	• 7					 	<u> </u>	5 Mds.	700
	Kandi seed	Seers. 0 16	2				•••			16 scers.	200
21	Lye brushwood		•••	35 Cart- loads.	22 0 0	•••	***		•••	35 Cart- loads.	<b>22 ()</b> ()
Nausitabro	Sur-glass Kanh grass	•••		Contract.	578 0 0	68 bundles.	4 0 0		•••	Contract. 68 bandles.	578 0 0 4 0 0
ر الالا	Bábul pods		•••	Contract.	1,635 0 0	***	***	•••	•••	Contract.	1,635 O U
ž	Ber fruit	•••	•••	Do. 100 bundles.	600	20 bundles.	1 0 0			Do. 120 bundles	600 700
l I	Lopping of kandi and			156 No.		•••	·	•••		150 No.	10 0 0
Į	bábul, branches. Bábul seod Grazing		•••	15 Mds.	$15 \ 0 \ 0 \\ 6,724 \ 0 \ 0$		791 0 0		2,821	15 Mds.	15 0 0 10,336 0 0
Ľ	Total		9		8,996 0 0		796 0 0		2,821		12,522 O U
			01								

## FORM No. 20.- Outlarn of Minor Forest Produce during 1912-1913-concluded.

					PROI	DUCI	e removed	OR UTILIZ	BD.					
De	scription of Produce.	By Gove Agen		By parc	hasers.		By free-	grantees.	By right-	holders.	Tot	al.		
		Quantity.	Value.	Quantity.	Value.		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.		-
	1	2		4	5	 ·	6	7	8	9	10	11		_
	SIND CIRCLE- continued.	Mds. s.	Rs.		Rs. a.	p.		Rs. a. p		Rs.	Mds. B.	Rs. a.	I	p.
	Reeds	Contract. 50 bundles.	48 35 3C0 6	•===== •===== •==== •===	• • • • • • • • • • • • • • • • • • • •		 	  	 Peb 	•••• ••• •••	21 Mds. Contract. 50 bundles.	35 300 6	0 0 0 0	0000000
Hyderabad.	Sur reed grass . Chabar and Dubh gras	• • • • • • • • • •	297	Contract. Do. Do. 378 Mds.	21,749 0 4,000 0 2,100 0 24 0	0 0 0	   	····	···· ···	···· ··· ···	Contract. Do. Do. 378 Mds.	21,749 4,600 2,100 24	0 0 0 0	0 0 0 0
	Lopping of babul, kans and khabar branches		•••	733 bundles. 23,432 No. ••• ••	46 0 323 0 13,000 0	0	•••	 1,641 0	···· •··· 0	  226	733 bundles. 23,432 No. 		0 0 0	0 0 0
	Total	•••	686	· · · · · · · · ·	41,842 0	0		1,641 0	0	. 226	*****	44,395	0	0
Jerruck.	Bábul pods Bih and Paban	15 Mds		Contract. Do. Do. 27 No.	2,730 0 16 0 125 0 10 0	) 0 ) 0	•••	••••	····		15 Mds. Contract. Do. Do. 27 No.	30 2,730 16 125 10	0 0 0 0 0	0
	Mango fruit	•••• ••• •	•••	Contract	3 0 •6,484 0			2,732 0	0	 1,571	Coutract.	3 10,787	0 0	0
	Total	••••	30		9,358 0	) 0		2,732 0	0	1,571		13,701	0	-
	, Total, Sind Cinole		917	•••••	73,855 0	) 0	• •••	11,590 0	0	10,226	••••	96,588	0	
_	GRAND TOTAL	P.s	2,95,602	••••	7,76,394 0	) O		15,132 0	0	3,88,915	••••••	14,76,043	0	(

# 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 1912-1913.

·		<del>,</del>				- •				-	
Name of Division or Bange.	Balance at commence- ment of the year in Forests and Sale Depôts.	Becoived during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in Forests and Sale Depôts.	Name of Division or Bange.	Balance at commence- ment of the year in Forests and Sale DepOts.	during	Total.	Dispreed of during the year,	Balance in hand at close of the year in Forets and Sale Depôts
1	2	3	•	5	6	1	3	8	4	5	6
NORTHERN CIRCLE. Timber.	Q. 11-	Q. 16.	C. ít.	0. ft.	C. ft.	SOUTHERN CIECLE.	C. ft.	0. ft.	C. ft.	0. ft.	C. A.
North Thána		884 13,481 9,139 1,195 258,385 599	1,139 13,431 9,139 18,968 258,365 599	1,139 13,431 9,139 16,968 243,147 599	  15,218 	Timber, Kánara, Northern Division Teak Blackwood		1,146,117 55,483	I,569,381 77,021	<b>460,436</b> 32,181	],108,955 44,840
Total	19,038	283,613	801,641	286,423	15,218	Junglewood	70,702	50,274	120,978	77,754	43,229
Fuel, North Thána	550	5,851	6,401	3,651	8,750	Total	815,552	1,251,826	1,767,878	570,861	1,197,017
Contral Thána	9,680	9,440 1,128 8,616 63,460 36,080	9,410 1,128 18,296 63,460 56,762	9,440 1,128 18,296 41,6-0 43,478	21,900 18,254	Kanars, Southern Division- Teak Jungiowood	12	233 7,413	944 10,887	38 ¢_086	306 6,301
Total	80, 912	124,575	155,487	116,653	<b>88,834</b>	Total	3,085	7,646	10,731	6,124	6,607
Minor Forest Produce. North Thông	Rs.	Rs. \$08 416	Bs. 308 416	Rø. 808	Rs.	Kánára, Eastern Division — Teak — ···	71,678	193,493	265,171	185,576	79,595
Panch Mabáis		51 51	5 51	51		Blackword	2,820 60,716	6,025 76,009	8,848 142,785	7,318 98,843	1,408 <b>4</b> 3,948
Total Total, Northern Circle	C. ft. 48,940	780 C. ft, 408,188 +	780 C. ft 457,128 + Bs,	364 C. ft. 403,076 + Rs.	416 C. ft. 54,052 +	Total	141,214	275,588	416,602	291,767	125,035
gentral circle.		Rs. 780	720	364	Rs. 410	Kánara, Western Division Teck *** *** Blackwood *** Juuglewood *** **	18,207 538 53,440	81.6^1 2,2 2 71,598	49,798 2,730 125,038	99,011 2,333 87,589	10,787 897 87,149
Timben. East Khândesh North Khândesh South Násik	96 622	418 308 8,028 9,419	, 930 9,129 9,418	418 556 1,75) 7,707	96 <sup>°</sup> 374 6,278 1,711	Total 🐱	73,175	<sup>i</sup> 105, <b>3</b> 91	177,566	129,233	48,333
POUND and on or of	· · · · · · · · · · · · · · · · · · ·	8,408	8;4:5	8,405		Belgaum Division— Trok —	. 3,051	. 7.194	11,245	7.526	5,719
Total	. 718	20,577	27,295	18,636	8,459	Blackwood	5°S 624	1,692	2 175	1,920 2,824	255 1,8 <b>5</b> 8
Fuel. East Khandesh			12,240	, 12,240		Total	5,258	12,338	17,596	12,270	5,920
South Násik North Násik Poono		14,061 153 272,558 42,905	14,061 153 2,80,193 61,525	6,0%9 153 276,773 37,524	8,052 3,420 24,001	Dhárwár Division Tesk Junglewood	4.0	8,930 5	18,099 ,47	14,150 42	1,918 5
• Total •••	26,260	841,912	8,69,172	332,699	85, 473	. Total	7,210	8,935	16,145	14,192	1,953
Minor Forest Produces. West Khändesh		<b>Rs.</b> 77 713	<b>Bs.</b> 77 713	Ra, 77 713	<b>R</b> #•	Total, Southern Circle Tcak	524,479	1,347,659	1,9'2,037	708,7?7	1,205,810
South Násik •••• j ••• North Násik •••• j		13,756 4,975 42	13,756 4,975 42	13,750 4,975 43	++6 10 0	Blackwood Juuglewood	25,517	65,255 208,911	90,7*8 403,409	43, 82 271,4,18	46,990 131,971
F. F. Operations. West Khändesh		1,78,880	1,78,860	1,78,960		Total	744,494	1,661,724	2,406,218	1,021,947	1,384,271
South Násik Total		67,429 2,65,832	67,429 2,65,832	67,429 2,65,953		Fuel, Ránars, Northern Division . Kánara Sonthern do	75,215 98,601	821,495 222,417 15,712	696,990 311, 13 16,712	612,840 73,887 15,608	24,340 287,131 1/9
Total, Central Circle	0, 1t, 26,978	C. it. 38-,489 + Rs.	O. ft. 395,467 + Rs.	(). ft. \$51,535 + Rs.	C. ft. 43,932	Beigann Division Dhárwár đo Bijápur do	431,675 8,040	2,68~,076 1,750 44,259	8,111,651 4,710 44,250	2,140,198 4,510 44,50	671,456 259
		2,65,852	2,65,852	2,65,852	•	Total	588,531	8,595,670	4,184,101	3,190,786	993,315

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Name of Division	1	Balance at commence ment of the year in Forests and Sale Depôts.	Received during the year.	i Total.	Disposed of during tho year.	Balance in hand at close of the year in Forests and Sale Depôts.	Name of Division of		Balance at commence- ment of the year in Forests and Sale Depôts.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in Forests and Sale Depôts.
<b>1</b>						• <del>6</del>	· 1		. 2	3	4	5	6
SCUTHERN (	CIRCLE	 Rs.	 Re.	 Rs.	 Bs.	Rs.	SIND CIRC Timber.	LE.	C. It.	C. ft.	C. ft.	C. ft.	C. ft.
Sandalu		1					Sukkur		391	3,147	3,538	2,356	1,182
	rthern				518		Nausháhro	··· ··	121	611	732	, 705	· 27
Division	. Value.	749	516	516	510	r •••	Hyderabad		29	· 223	245	154	. 91
Kanara, So Division	uthern		7,574	7,574	7,564	- 10	Jerruck	370 14		23	23	23	· · ·
Kánara, E Division	astern		3,853	3,853	3,853	-							1,300
Belgaum Divisio	n	75	3,839	3,961	3,964			Total .	. 534	4,004	4,538	8,238	1,000
Dhsrwár do,	· · · · · · · · · · · · · · · · · · ·		<b>\$</b> \$,905	83,905	\$3,905	•••				-		· · ·	
То	talValue	75	49,737	49,812	49,802	10	Fuel	•		· ·	1	14 N	
					-	-	Sakkur		1,250	89,608	90,858		14,672.
Minor Fores		j .				ļ	Nausháhro	***	<b>61,6</b> 04	101,155	162,759		23,302
Kánara, No Division, Gras	orthern isValue		. 23	<b>`9</b> 3	93		Hyderabad	-	<b> 8,</b> 891		103,040		37,949
Beignum D Grass	ivision,		28,355	28,355	28,355		Jerruck	***	<b> 17,9</b> 0	L 37,280	55,181	L 53,479	1,702
	Total .	***	28,448	28,449	28,448	3	-	Total		8 322,192	411,83	8 340,213	71,625
Drift and wa confiscated For	if wood and rest Produce.									-	<u> </u>	-	
	orthern			r .			Minor Forest	Produce.	Rs,	Rs.	. Rs.	Bs.	B.s.
Division	Valu	0, <b></b>	42	4	3 4	2	Sukkar	Valu	10. 46	3 734	1,19	7 831	365
Kánara So Division	outhern ,.		178	170	3 17	8	Nausháhro		3	8 550	58	8 547	41
	Eastern		9				Hyderabad 9		[8	2 581	66	8 577	86
Division Kánara,	··· ' <i>ii</i> ' Western		Ì		5		Jerruck	<b>848</b> 39	6	4 247	30	1 269	32
Division	11 CSUCINI 100 g3		153	15	5 15	5					-	- <b>  </b>	-
Belgaum Divis	ion . ••• ,,	5	0 225		5 26	30 1	.5 Tot	alVal	ue. 63	37 2,115	2,74	9 2,226	525
Dhárwár do.	• •• 33		18	ļ	1 .	<sup>18</sup> -							-
Bijápur do			54	1		1	50 Total, Sit	nd Circle	90,18	30 326,19	3 416,37	6 843,451	72,925
Batnágiri do	<b>.</b>	448	18	1	8 1				+ Rs. 6		Rs.	H9 8,22	Rs. 525
	Total		0 609	74	9 6	75	- -						
Total, South	hern Circle	C. f( 1,3:3,02 Rs. 12	5 5,357,294 Re. 5 78,884	<b>B</b> 9.	Bs.	t. C. f 33 2,377,59 Rs. 25		ad Total.	1,499,1 Bs.	23 6,360,16	7 7,859 24 Rs	0 5,310,79 Ba	5 2,548,49 Rs.

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 1912-1913—concluded.

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• :	FORM No. 22.—Abstract	showing the Value of Timber and other Produce at Sale Depôt for the year 1912-1913.	8

Descripti	ion of Tim	her		D AT COMME OF THE YEAD		On han	D AT OLOSE YEAE.	OF THE	Differ in Va	LUB.	
and oth	er Produc		No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favour of the year.	Against the year.	Remarks.
· · · · · · · · · · · · · · · · · · ·	1		2	8	4	5	6	7	8	9	10
NORTHE		1.17	-	<u> </u>	Rs.			Rs.	Rs.	Bs.	
	imbe <del>r</del> .	وتلالل		•		1		i			
North Thána	··· · ···			255	60			•••		60	}
Sorat Panch Maháls			1	17,773 	13,748	•••	15,218	5,000	5,000	13,748	
	To	tal	,	18,028	13,808		15,218	5,000	5,000	13,803	
	Fuel										
North Thána	•••		• •••	550	2		8,750	75	73		
Surat Panch Maháls	••• ••		• •••	9,680	100	•••		•••		100	> Net differen
Kolába	, 		(	20,682	206	· · · ·	21,800 ]3,284	1,775 • 563	1,775 357	•••	against the year
	To	tal	•	30,912	808	- <u></u>	38,834	2,413	2,205	100	Rs. 6,287.
Minor For	rest Produ	0e.								.	
Surat	••• ••				   		•••	416	416	1	
Total, No	rthern Cir	cle		·[	14,116		54,052	7,829	7,621	13,908	
									.		<b>)</b>
CENTRA	T CIBCI	E.	<u>}</u> .		1		1 1	Į			
Ti	mbe <b>r</b> .			ļ				ļ	}		
Pieces	<b>200</b> - 100	••		623	125	1,207	536	109		16	
Posts Rafters	449 440 498	,	175	96	57	900- 2,245	812 3,753	150 415	93 415		Ì
Beams	***		J		•••	289	3,358	200	200		
]	Fotal, Tim	ber	541	718	182	4,641	8,459	874	708	16	
Firewood	••• ••	•	•••	26,260	499		35,473	1,594	<b>P</b> ,095	-+	Net difference
Mhowra seed	••• •••	•••	K. m. lbs. 29 5 11		554	K. m. lbs 459 6 12		22,647	22,093		favour of t year—Rs. 27,711
Hirda	••• •••	••	•		•••	K. m. lbs 331 14 8-	***	3,831	3,881		
Seeds			K. m. lbs. 42 17 8		× 619	K. m. lbs 14 19 20	•	4.88	•==		J
Total, (	Central Cir	cle 🗤	K. m. lbs.		1,235		43,932	28,946	27,727	16	
SOUTHE	EN CIRC	LE.	}				)				
• .	mber,			i					ļ.		. فر
 Feak			112,253	524,479	5,94,452	120,970	1,205,310	3,05,612	· ···	2,88,840	
Blackwood	<b>188</b> 411	***	1,235	25,517	24,784	2,199	46,990	18,932 90,079	***	5,8 2 50,412	1
Junglewood				1,94,498	1,40,491	6,153	131,971	4,14,623		3,45,104	1
	Cotal, Timl	)e <b>r</b>	120,762	744,194	7,50,727	129,822	1,384,271	4,14,025  69,871	82,500		
Fuel	••• •••		•••	588,531	37,371	····	993,315				Not difference against the year-
andalwood		Value.		•••	75	•••		10			Rs. 3,12,645.
-	rest Produ						} <b>{</b>		ļ	•••	1
Minor Forest l	Produce	Value.		•••							}
Confiscated	Forest Pro	duce.							_	-	}
Confiscated Fo	rest Produ	00			50	•••		74			1
<b>m</b> (.1.0	uthern Cir	Jo			7,97,2.23			4,81,578	32,524	3,45,169	<b>j</b>

		_			D AT COMME OF THE YEAR		On han	D AT CLOSE YEAR.	of the	Differe Valu	NCE IN JE.	
Description and oth	on of Ti er Produ	mber uce.		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	CIRCI	je.				Rs.		· ·	Rs.	Rs.	Rs.	
T	imber.							1		'		
Bahan logs	***	• **		10	43	11	37	147	- 24			
Bahan dasas	***	•••	***				60	60	· 12	4#3	880 -	
Bahan posts	***			47	29	. 9	. 181	183	· 45			
Bahan rafters	449	149		355	177	. 31	459	229	43			
Babul logs	400	***		9		·90	52	217	. 35			
Tali logs		•••	***	3	6	8	· 1	15	10	***	•	
Kandi logs	•••		-		-		-	1	1	+40		
≜sri lye logs		***	•••	••• 15	29	4	23	145	23		•••	
Lye props		***		10	9		. 55	21	10	•••	500. 	
Jhow rafters		***	•••	243	121	12	254	1 1			140	
Pahan Varas	***	***	<b>4 8</b> %		20			127	. 5	•••	•••	
Kandi propa	***	1	•••	. 4		1	***	•••		•••	• •••	
Babul posts	***	***	84-	6	5	1	2	3	1	**5	•••	
Ber logs	•••	•••	•••	4	7	1		***	***	•••		Net difference
Kandi rafters		•••	••	•••		•••	38	150	30		•••	year-Rs. 278.
	•••• 1	•••	•••		•••	····	. 4	2	1			
	otal, Tu		- F	706		170	1,169 	1,300	240	70	•••	
Firewood o	and Cha	fcoal.	' {	(	4						{	{
Loco-fuel	520	••1	•••	Mds.	87,971	1,465	M.'s.	70,303	1,795	•••	•••	
Firewood		44p-	***	127	275	10	222	1,322	16			]]
Firewood in pi		***	•••	225	900	]6	•••		···	***		
	Total,		•••	352	89 <b>ئ</b> 46	1,491	222	71.625	1,811	320	•••	
Minor Fo										}		
Pabul, Kandi a	and other	r seeda	••••	1,142	•••	C87	848	•••	465			
Babul bark		•••				]	80		60	•••	***	
	2	Fotal		1,142		637	928	•••	525		112	
Total	, Sind C	ircle	•••		•**	2,298	•••	•••	2,576	390	112	
Gi	BAND TO	otad-	-			8,14,872	•••	••••	5,23,529	68,262	3,59,205	J. Net difference against the <u>year-Ra</u> 2,90,943.

# FORM No. 22.—Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1912-1913—concluded.

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FORM No. 23.-Abstract showing the Value of the Live and Dead Stock for the year 1918-13.

Description of Live and Dead Stock.	ON HANI MENT	) AT COMMENCE OF THE YEAR,		HAND AT OF THE TRAR.	DIFFERENCE	IN VALUE	8.
	No.	Value.	No.	Value.	In favour of the year.	Against t year.	BEMARES.
- 1	2	3	4	5	6	7	8
NORTHERN CIRCLE. Live Stock.	• • •	Rs.		Rs.	Rs.	Rs.	
Bullocks	4	509	4	809	•••	•••	
Dead Stock.	•			-	- -	-	
Buildings	245	2,35,640	266	2,56,401	20,761	•••	
Tents	9 24  3 5 7 8 7 1	3,249 1,778 24,266 (a) 1,000 (a) (a) (a) 133 1,371	8 24  3 5 7 5 7 1	1,778 25,083 (a) 1,000 (a)	817	       	(a) Price not known.
. Total, Dead Stock	<b>3</b> 04	2,67,437	326	2,89,015	21,578		
Total, Northern Circle	<b>308</b>	2,67,746	3 <b>3</b> 0	2,89,324	21,578	••••	Nct difference in favour of the year-
CENTRAL CIRCLE. Live Stock.		-			· :		Bs. 21,576.
Nil Dead Stock.	•••	•••	•••		•••		
Buildings Tents Rahuti (Cabul Pal fan) Tools, Plant and Office furniture Remington Typewriters Copying Machines Cyclostyles	58 8 29  10 .7 	88,438 '2,232 2,079 38,934 (a) (a) 	83 8 27 10 . 6 3	115,960 1,990 1,968 37,848 (a) (a) (a)	27,522	242 111 1,036 	(a) Price not known,
Total, Dead Stock	112	1,31,683	137	1,57,766	27,522	<b>J,4</b> 39	
Total, Central Circle	112	1,31,683	137	1,57,766	27,522	1,439 F	Net difference in favour of the year

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FORM No. 23 - Abstract showing the Value of the Live and Dead Stock for the year 1913-13-concluded.

· · · · · · · · · · · · · · · · · · ·		COMMENCE- THE YEAR.	ON HAND OF TH	AT CLOSE E YRAR.		BNCE IN LUB.	
Description of Live and Dead Stock.	No.	Value.	No	Value.	In favour of the year.	Against the year.	REMABES.
1	2	3		5	/ 6	7	8
						- <u></u> -	
SOUTHERN CIRCLE.		Rs.	• •	Rs.	Rs.	Rs.	
Live Stock.				•		· * ·	
Elephants Buffaloes	1 1.1	8,500 2,461	<b>3</b> 43	8,500 2,520	•••	•••	•
Total, Live Stock	47	10,961	46	11,020	59	•••,	
Dead Stock.	}	•}			·	- <u></u> -	
Buildings	346	2,27,827	358	2,42,376	***		-
Rahutis	14 16	3,511 996	11 19	2,922 1,255	•••		
Tools, Plant and Office furniture	ਿੰਸ	69,173 Not known.	7	87,408 Not known.	•••	•••	
Monorail materials		25,382		25,382	•••	•••	
Duplicators Carts	$\begin{vmatrix} 2\\ 11 \end{vmatrix}$	Not known. 275	5 19	Not known. 1,263	•••	•••	· ·
Gun	ł .	•••	· ~ 1	52	•••	•••	
Total, Dead Stock	<b>3</b> 94	3,27,164	420	3,60,658	33,494		
Total, Southern Circle	441	3,38,125	446	3,71,678	<b>3</b> 3,553	•••	Net difference in favou
SIND CIRCLE.							of the year—Rs. 33,553.
Live Stock.							
Bullocks Camels	1 01	143 1,218	11 29	228 1,098	••• •••	•••	
Total, Live Stock	43	1,361	40	1,326		35	•
Dead Stock.	· ·						
Buildings	101	` <b>39,7</b> 59	101	89,911	•••	•••	1.
Tents	12	2,535	13	2,888	•••	•••	
Stores, Mathematical		4,731	631	5,367	•••	•••	
Tools, Plant and Office furniture	ļ	11,758	2,416	12,553		• •••	
Remington Typewriter No. 11C	{	•••	3	•••		•••	
Empire Typewriters	5	•••	<b>8</b>	•••	***	•••	
Copying Machine		•••	1		•••	•••	• · ·
Miscellaneous		848	604	858	•*•	•••	
Total, Dead Stock		59,631	3,772	61,577	1,946		
Total, Sind Circle	3,195	60,992	3,812	62,903	1,946	35	Net difference in favou
GRAND TOTAL	4,056	7,98,546	4,725	8,81,671	84,599	1,474	of the year-Rs. 1,911 Net difference in favour of the year-Rs. 83,125

# FORM No. 24.—Summary of Revenue and Expenditure of the different Divisions for the Forest year 1912-1913.

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		<u> </u>		for the For	rest year 19.	12-1913.	uce anger	cut Divis	10 <b>418</b>	
Budget Head.	Direction	Working Plans Division.	Panch Mnháls Division,	Surat Division.	North Thán Division,		a South Thán Division.	Kolába Division,	Famino Folder Division,	Totil for the F. rost your 1912-1913,
NORTHERN CIRCLE.	Rs. a. p	. Rs. a. p	Rs. a. p.	Rs. a. p.	Rs. a. p	. Rs. a. p.	Rs. a. p.	Rs. a.	p. Rs. s.	p. Rs. s. p
REVENUE.										{
<b>Produce</b> remove from the Forests b Government Agency-		}								
a. Timber b. Firewood and charcoal	1	**,	16,039 10 4			0 599 6 0	•••••	825 1	0 4 2	0 37,967 0
c. Bamboos d. Sandalwood c. Grass and other		*****		321 1 8	197 6 307 9			5,432 10	4 0	5,936-11 311 9
minor produce	******		4 12 10	5 '0 0	1			51 4	0 1,42,167 6 1	***
Total, I		-		20,363 11 11	1,108 2 1	644 6 0		5,808 13	3 1,42,195 8 1	1 1,86,468 13
II.—Timber and other Produce removed from the Forests by Consumers or Pur- chasers—								Ť		
a. Timber b. Firewood and charcoal			34,859 6 10	69,526 3 11			[	90,704 13 1		12,00,051 4
c. Bamboos d. Grazing and fod-		•===== •====	2,589 14 7 2,913 3 6	429 0 0 8,405 8 2		8 1,257 7 3 8 5,936 5 6	842 11 -9 479 12 10	5:011 ( 22 9 (		5,595 3 28,215 11
der grass c. Other minor pro- duce	·····		4,407 1 9 7,198 14 3	1,751 13 0 8,762 13 0			7,214 5 0		•	42,899 13
f. Other items g. Commutation fees			*****	******	*****	5,856 6 0	10,027 2 0		• • • • • • • • • • • • • • • • • • •	81,103 1 
Total, II			51,968 8 11	7 19 0 53,837 10 1	~ [	3 2,79,261 4 3	2,46,094 11 11	1,C9,365 5 5	 	-7 19
III Drift and Waif Wood and Confiscat- ed Forest Produce			340	68 10 5	317 11 6	292 8 9	36 14 0			
Total, III			340	68 10 5	317 11 4		86 14 0			1,814 9 1
IV.—Revenue from Forests not managed by Government— a. Duty on foreign										
timber and other forest produce b. Revenue from	<b></b>	, <b></b>	•••••					••••	•••	
shared and pri- vate Forests		ass ##a		39 4 4	479,100	752 9 7	584 15 4	812 0		1,380 9 :
Total, IV				39 4 4		752 9 7	584 15 4	3 12 0		1,380 9
<b>F.</b> —Miscellaneous— a. Fines and forfei- tures b. Refunds	2 13 0	20 10 8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	199 5 0 692 7 5	375 2 0 85 14 8	1,733 4 0 95 1 8	325 0 0 13 12 1	420 12 0 9, 5 4	1,279 14 11 - 159 1 8	4,358 5 1 703 10
c. Other sources Total, V	875 0 0 377 13 0	20 10 8	3,006 4 2 3,033 15 7	2,31 × 10 9 3,210 7 2	3,409 14 3	8,452 2 2 5,290 7 10	2,328 4 9	6,725 1 1 7,155 2 5	2,789 7 0	24,403 12
Grand Total, Bevenue.	377 13 0	20 10 8	71,050 12 8	1,07,849 11 11	5,48,524 8 7	·		1,22,928 12 2	1,46,104 18 2	16,82,472 0
EXPENDITURE. AComburvance		(	 .	,						
AND WORKS. I.—Timber and other Produce removed from the Forests by	-		、							
Government Agency - a. Timber b. Firewood and		***	402 2 6	43,921 6 10	124 0 0	118 11 8	••••	1 14 0		44,566 3
charcoal	*****	975 - 198 1 - 10 - 11	196	4,036 7 7	156 13 0	47 8 0	*** ***	3,559 1 11	·····	7,790·14 1 9
d. Sandalwood e. Grass and other minor produce	*****	*****	256	 1,098 13 6	······ 3 0 0	*****	******	•10.110	 1,13,175 1 10	 1,14,279 4 1
Total, A.I			404 1 6	49,056 11 11	283 18 0	163 '3 8	· · / / / /	8,560 15 11	1,13,176 1 10	1,66,646 15 1
11.—Timber and other Produce removed from the Forests by Consumers or Pur-	ŀ			,	ĺ		,			
chasere Total, A-II			5,970 4 5 5,970 4 5	3,687 0 1 3,687 0 1	6,153 10 7 6,153 10 7	5,217 7 2	2,0.0 10 0	4,648 8 7	19 3 4 16 8 4	30,014 12 1 30,014 12 1
-					-					سينگم ده دو
III - Drift and Waif Wood and Confiscat- ed Forest Produce		734 646	2 1 6	100	5 10 0			16 9 6		25 5
Total, A-III			2 1 6	100	5 10 0		·	16 9 6		25 5
IVRevenue from Forests not managed by Government- d. Duty on foreign	∧  ·	.		·						
timber and other forest produce b. Bevenue from shared and pri-			tor			<b>501 - 10</b>			\$**	84+ 946 21-110
Total, A-IV	······					944 944				****
	l		ļ	1	- 1	· .			·	

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FORM No. 24.—Summary of Revenue and Expenditure of the different Divisions for the Forest year 1912-1913—contd.

			JUT 1/10 1		- 1916-191	.0			· · · · · · · · · · · · · · · · · · ·	
Budget Heads.	Direction.	Working Plans Division,	Panch Mabils Division.	Surat Division,	North Thâna Division,	Central Thána Divisiou.	South Thána Division.	Kolába Division.	Famire Fodder Division.	Total for the Forest year 1912–1913,
EXPENDITURE-con- tinued. ACONSERVANCY AND WORES-continued. VRent of leaged Forests	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	<b>Es. a.</b> P.	Bs, a. p.	Rs. a. p.	Rs, a, p.	Re. a. p.
and Payments to Share- holders in Forests manag- ed by Government	******		841444	17,954 6 8	******		279 11 8	6,967 0 1		25,201 2 5
Total, A-V		448.254	·	17,954 6 8	•••••		279 11 8	6,967 0 1	11· +4-	25,201 2 5
VI.—Live-Stock, Stores, Toole and Plant.			· ,							
s. Purchase of cattle b, Feed and keep of	upusto		- 			******	-	41104		
cattle	575 <b>57</b> 0	<b>a</b> at	459 0 8	265 6 6	*****	*****	3.0.588	198,	letter	614 6 9
tools and plant	113 6 0	1980	215 14 11	272 12 3	215 4 0	813 12 5	265 8 0	67 13 8	238 10 0	1,752 8 10
Total, A-VI "	113 6 0	1980	704 15 2	428 2 9	215 4 0	313 12 6	265 8 0	67 13 8	238 10 0	2,366 16 7
VIICommunications and Buildings.						}				
a. Roads and bridges	• <b>*</b>			8,037 4 2	607 8 0	3,068 1 8		1,458 6 8		13,215 4 1
b. Buildings	*****	- 40 - 40 - 40 - 40	2,510 12 8 1,350 8 5	13,084 8 10 2,494 11 9	4,791 5 0	5,091 13 0 76 11 0		1,811 2 10	586 1 0 -*	28,090 8 5 8,943 15 5
Total, A-VII	1		3,651 4 8	23,556 8 9	5,388 13 0	8,236 9 6	650 8 9	3,269 9 1	580 1 0	45,249 6 11
VIIIOrganization, Im- provement and Extension of Forest.										· -
a. Demarcation b. Cost of Forest Scttle- ments and Compen- sation for land and			37 11	726 10 4	572 8 0	783 12 (	219 7 4	2,607 14 8		4,947 9 11
rights c. Surveys	1,750 0 0	<b>410 33 5</b>	49 11 10	372 10 7	449 8 8	1005010 001.940	dia aja	1,518 0 0	424944	2,889 9 8 1,750 0 0
d. Working-plans e. Sowing and planting	ł	1,925 15 6	672 12 3 1,220 3 8	8,825 14 2 1,818 8 0	1,791 9 9 240 6 8	2,114 1 8 606 0 2	1 751 15 11 853 18 4	413 4 0 853 8 0	*** 24	12,740 16 9 5,446 7 5
f. Protection from fire g. Other works		448 140 820 144	4,405 2 0 22 6 0	6,348 8 0 235 10 9	3,344 8 0 570 0 0	4,525 11 4	8,392 5 4	2,541 8 0 229 14 0	416194 448694	24,558 5 8 1,089 14 9
Total, A-VIII	1,996 6 5	1,925 15 6	6,407 14 9	12,827 13 10	6,967 9 3	8,152 9	6,223 9 11	7,962 0 8	424144	52,962 15 2
1X.—Miscellancous.	}	'  <del></del>			·		•			
a. Law charges	-666		1,123 10 6 103 8 9	1,115 11 6 178 9 1	1,657 6 0 100 9 10	1,652 10 91 7		2,251 1 9 161 4 5	49 8 0	8,849 8 11
Total, A-IX	-6 6 6	32 0 10	· · · · · · · · · · · · · · · · · · ·	1,293 13 7		1,744 1	92 2 4	2,412 6 2	2 4 0	761 7 7
TOTAL, A CONSERVANCE								2,912 U Z	51 7 0	9,610 0 6
AND WORKS	2,103 5 1T	1,977 8 4	18 267 13 3	1,09,315 9 7	20,782 11 8	23,830 11	12,885 18 1	26,904 9 10	J,14,069 7 2	3,82,077 10 4
BESTABLISHMENTE.	}	•				ļ				
a. Conservators 5. Superior Officers c. Subordinate Forest and Depôt Establish		•1• •47 ••1•	13,423 13 11	16,049 5 4	12,090 0 0	9,319 1 4	16,474 2 7	13,531 4 7	3,850 0 0	17,110 0 <b>8</b> 88,901 13 11
d. Office Establishments.	850 0 0 9,158 13 5	798 0 0	20,597 9 7 6,059 5 10	17,633 0 3		22,432 2 1 5,907 0 1		39,155 9 6	942 2 0	1,51,051 3 6
e. Deputation and Special Allowances	756 1 8	235 8 5	150 6 7	4,862 11 -1	1,253 1 0	810 4 1		7,374 7 7	225 8 6	
<ul> <li>Licobango Compensa- tion Allowance—</li> <li>Conservators</li> <li>Dopty</li> </ul>	PGL #86		632111	4 110	******	(105116		10000	22 15 2	8,741 7 2
<ul> <li>2. Deputy Conserva- tor</li> <li>3. Assistant Conser-</li> </ul>		4144918	*****	110 sat -			******	499.00	******	200.000
vators 4. Extra Assistant		******	948,25	•••••			******	*****	*******	
Conservators			*4							-
Total, B-I		1,033 8 5	8 8 0 40,239 11 11	44,692 3 4	4 0 0	5 8 0 89,534 0 0		******	******	33 0 0
IITravelling Allow						89,534 0 (	5 49,564 2 5	60,323 6 9	5,040 9 8	3,12,885 14 5
ances a. Conservators b. Superior Officers a. Subordinate Forest and Depôt Estab-	279 14 2	2000 p	2,729 15 0	3,126 15 0	2,485 2 9	2,835 11	1,979 12 8	1,979 10 2	703 12 0	2,383 15 4 16,070 13 3
lishments d Office Establishments, e, Forest School (Dehra-	76 11 6	16 1 11	2,198 15 0 603 14 5	2,141 2 0 850 0 10	1,513 7 6 640 9 1	1,864 9 660 4	1,195 13 6 694 10 1	2,126 5 1 616 11 2	F39 11 0 190 12 9	11,396 10 11
Jun)	364 7 8 103 5 4	57 2 5	1,157 1 0	88 5 4	 	88 5 6 13 13 11 1,797 8 6		211 0 0	523-61 523-61	5,535 5 0 853 6 6 224 13 11
Total, B-II		53 4 4	6,751 13 8	7,374 18 10	6,253 8 5	7,060 4 10		3,912 7 4	11 0 10	11,269 2 1
IIIContingencies-		<del></del>						8,226 1 9	1.415 4 7	47,785 8 0
<b>c.</b> Stationery <b>b.</b> Carriage of Tents and	<b>30 12</b> 0	-91, 11 6	416 10 1	241 7 3	328 11 2	877 9 10	844 0 10	480 10 6	<b>PT 6</b> 0	
Records	369 9 0	Plant	483 14 4	403 3 10	226 13 11	853 10 1	• • •	480 10 6 283 9 6	<b>37 2 8</b>	2,276 11 10
c. Rents, rates and taxes d. Pay of Police Guards.	1,749 9 10	128 0 0	<b>3</b> 76 <b>8 0</b>	14 0 0	884 0 0	388 8 (		4500	93 13 0	2,360 15 8
c. Official postage f. Sundries Payments to Officers of	406 6 6 772 5 9	10 0 0 103 2 0	1,035 15 0 709 11 6	613 3 0 674 8 4	1,083 3 0 449 31 9	971 1 ( 492 12 10	1 209 7 0	1,149 2 6 316 11 0	109 3 0 57 14 9	8,083 9 19 6,689 8 0 8,769 12 5
other Provinces Total, B-III .	3,418 11 1	272 13 6	2,932'10 11	 7,849 5 5	2,468 6 10	2,521 9 8	1,984 14 4	2,275 1 6	288 0 5	
Torat, B-Establish Mests	39,741 7 1	1,359 10 3	40,984 4 3	51018 0 P	E0 304 0 0	49 115 18	••••	• • •		18,179 9 9
GEAND TOTAL OF Ex-	41,844 13 0	8,337 2 7		54,016 6 7 1,63,322 0 2	50,194 2 3 70,976 13 11	48,115 15 0 71,946 10 e		70,824 9 p	6,773 14 8	8,78,800 11 2
	· .			]			10,000 8 2	99,729 2 10	1,20,843 5 10	7,10,878 5 6
		•		-					· · · · · · · · · · · · · · · · · · ·	

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· · FORM No. 24.—(contd.). • \_\_\_\_

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FORM No. 24.—Summary of Revenue and Expenditure of the

		FORM 3	<u>_</u>		Famine Fodder.	West
Badget Head.	Direction.	Pamine Fodder Poona Division.	Working Plans Division.	Famine Fodder West Khindesh Division.	South Násik Division.	Khéndesh Division.
CENTRAL CIBCLE.	Rs. a. p.	Bs, à. p.	R8. 8. P.	Rs. a, p.	Rs. a. P.	Rs. a. p.
REVENUE.				1		
-Timber and other Produce removed from the Foresta by Govern-						
ment Agency— a, Timber			636 196			
b. Firewood and char-	\$98 x x x		615 · 104	46 9 0	******	*****
c, Bamboos		619 758 681		*****	· · · · •	
e. Grass, and other minor produce	******			1,78,880 5 4	67,429 8 8	77 0 0
Total, I		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	41 <sup>43</sup> 434	1,78,906 5 4	67,438 8 8	
I.—Timber and other Produce removed from the Forests by Consum- ers or Purchasers—		1				
a. Timber		******		84-174	•••••	1,02,403 11 9
b. Firewood and char- coal	***		****	*****	930-119 168 sta	9,288 0 0 160 0 0
d. Bamboos d. Grazing and fodder- grass		*****				26,511 9 0
c. Other minor pro- duce			194.000	,	A+# +++	4,964 9 0
f. Other items	0-5400	005478 1111986	192959 192959		******	•••••
Total, II		·····		····	·····	1,43,823 13 9
IIF. Drift and Waij Wood and Confiscated						155 13 0
Forest Produce Total, III	• <b>• • • • • • • •</b>		+ + + 100,150			155 13 0
IVRevenue from For ests not managed by Government-	, /					
a. Duty on foreign timber and othe		ł		}	•	
forest produce			******	<b></b>	644	*****
and private Forest	s					·····s <sup>1</sup>
` Total, IV	·					******
<b>T</b> Miscellaneous- a. Fines and forfet tures	1					1,834 14 0
1 10 - A	. 450 13 4	*****	24 3 1 0 10 6	*****	*****	11,106 12 7
Total, V .	. 904 1 4		24 13 7		<b>4</b> er	12,441 10 7
Grand Total, Revenue .	- 901 1 4		24 13 7	1,78,906 5	67,428 8 8	1,58,000 5 4
EXPENDITURE.			╺━╼╴			
А.—Сонзевуляст Алі Wobes.	• · · ·					
I_Timber and other Pr duce removed from ti Forests by Governme	te					
Agency— a Timber		\$ \$7.5× ==				
The 1		*****	*****			
	111 020116 151 048110	•#• <sup>#+#</sup>			***	#90 ptg 
	er 	Pár 610	****	35,169 3	0 79,711 11	1
Total, A-I	444		****	35,169 3	0 79,711 11	3 3,704 9 5
IITimber and oth Produce removed fr the Forests by Co	979) 974			<i>i</i>		
mmers or Purchaser Total,A-II						1,882 14 1
11-A( 1997 1	····					],832 14 1
III.—Drift and Wa Wood and Confiscal Forest Produce	uif ed		to gives			
Total, A-III		·····				
IV — Revenue from F ests not managed Government—						·····
a. Duty on fore timber and ot forest produce b. Revenue from sha and private F		•• •	•••• •••	******		485.00
este	***		\			
	an \			[		
Tetal, A-IV						******

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		[			·····		
	Poona Division.	Sátára Division.	North Khándesh Division,	East Khándesh Division.	South Násik Division.	North Násik Division.	Total for Forest year 1012-13.
	Rs, a. p.	· Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p
		· · · ·		,			
			, .			)	} · ·
	501 0 9	50 <u>4</u> 0	16 8 0	17 0 0	330 13 0	*****	915 9 9
	9,7 <del>04</del> 12 8	2,047 12 8 16 2 0	*** 140	<b>΄400 0 U</b>	271 6 0	22 8 0	12,582 6 11
	1681649 764 <b>649</b>	******	dodata todata				16 2 0
		42 0 0	713 6 0		13,756 2 2	4,975 3 10	2,65,852 10 0
	10,295 13 0	2,156 2 8	729 14 0	417 0 0	14,359 5 2	4,997 11 10	2,79,366 12 8
,			· <b> </b>				2,10,000 12 0
						ĺ	[
	15,188 6 8	10,123 15 3	20,701 15 8	27 639 13 0	42,171 15 8	13,953 3 0	2,32,183 0 2
	29,158 6 0 130 14 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13,562 9 0 316 4 6	20,331 4 2 7,862 15 6	181 7 3 5,166 2 3	5,200 12 3 331 10 6	77,965 8 7
	44,486 2 0	80,853 13 6	47,631 15 0	}	}	1	
	3,839 14 8	11,754 0 8	. 5,080 2 0	1,34,059 15 8	82,010 11 8	45,561 12 0	8,61,115 14 5
			******	2,288 3 3	3,612 9 0	4,969 14 1	36,529 <b>4</b> 3
	*****			******			
	92,803 10 11	53,239 ] 4	87,292 13 9	1,92,182 3 2	83,142 18 5	70,037 3 10	7,22,023 12 2
	630 14 6	496 13 3	997 1 6	824 0 0	472 12 8	590 13 9	3,668 4 6
	630 14 6	496 13 8	997 1 6	824 0 0	472 12 6	590 13 9	3,668 4 6
-				·		-	
		l		,, ,			ł
			١	1	Į		
	498.000		2,024 12 0	2,841 13 6			4,863 9 6
	*****						******
			2,024 12 0	2,841 13 6			4,866 9 6
_	<u> </u>	,	•		· · · · · · · · · · · · · · · · · · ·		
	171 0 0	- 245 0 0	418 8 0	1,385 5 3	4,092 7 6	540 8 0	8,182 10 9
	0 0 1 7,021 13 3	236 8 8 4,544 8 0	43 3 0 6,531 8 8	0 14 0 6,742 13 2	47 0 2 8,082 3 11	3 14 0 7,929 14 11	806 8 4 52,413 9 0
	7,192 13 4	5,026 0 8	6,989 3 8	8,129 0 5	12,221 11 7	8,474 4 11	61,402 12 3
	1,10,923 3 9	60,918 1 11	98,032 12 11	2,03,894 1 1	1,10,195 10 8	84,100 2 4	10,71,328 2 11
· <del>-</del>							
í.			, i				
	98 14 0 <sup>7</sup>	19 4 0		120 5 6	998 8 9	*****	1,237 0 3
	1,540 15 9	796 12 3		9380	258 8 6	1 8 0	2,691 6 6
	444 1 pe	380			*****	******	3 8 0
			2,540 9 11		4,701 13 7	5,608 6 6	1,81,436 5 6
	1,639 18 9	819 8 3	2,510 9 11	213 13 6	5,958 14 10	5,609 14 0	1,35,368 2 3
-		······			·		
	355 12 0	780	5,403 14 . 3	1,957 11 5	1,785 7 9	579 9 9	11,989 14 0
	335 12 0	74 8 0	5,408 14 3	1,957 11 б	1,785 7 9	579 9 9	11,959 14 0
•							,
	314 0	160	3 2 0		080	680	24 6 0
-	3 14 0	1 6 0	320		980	6 6 0	21 6 0
	•			-			
	402100	*****	- • <b>3</b> +99	pa-+++	add 2000	<b>F</b> \$4 \$44	<b>901</b> a 24
_				······	<b>******</b>	******	
		· •••		1	******	*** *	· ···•
	,	1	, ,	<b>```</b>			

# different Divisions for the Forest year 1912-1913-contd.

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FORM No. 24.—Summary of Revenue and Expenditure of the

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Budget. Head.	Direction.	Famine Fodder Poona Division.	Working Plans Division.	Famine Fodder West Khándesh Division.	Famine Fodder South Násik Division.	West Khándesh - Division.
EXPENDITURE -	Bs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
CONSEEVANCY AND WORES-continued.		· · ·		,		
-Rent of loased Forests and Payments	,					
to Shareholders in Forests managed by				-		•
Government				****	698 or p	
Total, A-V	479 479	******	******	******	*****	
Live-stock, Stores,						
Tools and Plant- a. Purchase of		. ·	ĺ			
b. Feed and keep of	****** * `	· • • • • • • •	· •===	941 869	*** ***	
cattle		*****		e12540		
tools and plant	/ 39 1 0	••••••••••••••••••••••••••••••••••••••	45 12 3	*****	ebs100	442 10
Total, A-VI	39 1 0	*****	45 12 3			442 10
11.—Communications and Buildings—			-			}
Bridges	·	475,77			415 774	1,567 14
. Buildings				***,		4,676 10
Total, A-VII			+=====		******	
11Organization	,,,,,,,			******		6,244 9
Improvement and Extension of Forest-		}	)	-		ļ
a. Demarcation b. Cost of Forest	· · · · · · · · · · · · · · · · · · ·	-	*** • • •	480.30a	1	233 8
Settlements and		) ·				ł
Compensationfor land and rights .	*** 119	******	••••			630 0
d. Working Plans	84-289 888 664	*****	3,669 15 6	500 100		1 107 14
e. Sowing and Plant- ing		*** 5**	*****		*****	908 13
f. Protection from Fire		845.000				j i
g. Other works				******	110 per	4,015 8 117 9
Total, A-VIII	+*****		8,669 15 6	******	(******	7,013 6
Miscellaneous- a. Law charges			· · · · · · · · · · · · · · · · · · ·			
b. Other charges c. Grain Compensa-	85 11 0	ده التي محمد ١٩٩	*****	****** ***	-3 11 2	J,261 0
tion	<b>~</b>		44 12 9			91 15 1
Total, A-IX	35 11 0	·······	44 12 9		-3 11 2	1,858 0
NAL ACONSER-	- <u></u>					
-ESTABLISHMENTS.	74 12 0	••••••••	3,760 8 6	85,169 3 0	79,708 0 1	20,591 2
-Salaries-		· ·	t		{	
a. Conservators b. Superior Officers .	23,273 5 4	******	4,600 0 0			11,445 11
c. Subordinate Forestand Depôt						11,990 11
Establishments . d. Office Establish-	******	******	1,108 5 10	******	4.00174	20,019 0
s. Deputation and	10,309 1 1		367 0 0	40 <u>8</u> 0 <b>7</b> 0	- P981.va	6,198 1
Special Allow-	5,937 3 10	*****			1 I	
f.Exchange Com- pensation Allow-			-		••••••	1,503 14
ance 1. Conservators	·		]	}		-
2. Deputy Conser- vators		·····	******	895, 03 <del>0</del>	******	-14 - 14
S. Assistant Con- servators		*** ***	*** ***	6 yrs 1940	+1++++	***
L Extra Assistant Conservators		*****	<b>***</b> ***		***	***
g. Royal Bonus	*****	+ ++++++++++++++++++++++++++++++++++++	*****	******		
Total, B-I	39,519 10 3		8,075 5 10		*****	******
Travelling Allow-		· ·	·			39,166 11
ances-	3,164 14 0		487 06 a		}	1
Superior Officers . Subordinato	· ·····	*****	1,366 14 1	*****	******	2,690 11
Forest and Depôt Establishments	444774	· · · · · · · ·		{	ł	
. Office Establish- ments	727 8 8	]	465 3 0	******	******	2,018 2
Forest School, Dehra Dun	- 161 9 0			*****	******	629 10
7. Grain Compensa	15 0 <b>0</b>		449789 896789			
tion Allowance .	83 8 9		67 1 0	470 gas		******
Total, B-II	4,151 3 5		1,899 2 1			1,010 8 3
Contingencies	15 7 6	]				6,348 0
and Records	172 13 1	4	17 12 6			216 14
Bents, rates and taxes	1,980 0 0		259 14 3	***- 04.6	******	149 0
t. Pay of Police			e 1 6 99 6	•••••		120 0
guards	458 9 0		110 0 0	075.75 <b>4</b>		
f. Sundries Payments to Officers	445 14 6		82 14 5	*** 520	******	661 9 564 10
of other Provinces.	\$03424 ×	·····	#10 +	****		
Total, B-III	9,072 12 1		470 9 2	*****		1,712 2
TAL, BESTABLISH-	46,743 9 9	\	8,445 1 1		-)	
GRAND TOTAL OF	······································		0,990 1 1	<u></u>		47,228 13
EXPENDITURE	46,818 5 9	a diama di	2,205 9 7	85,169 8 0	79,708 0 1	1
					1 78.70N D T	67,818 0

# different Divisions for the Forest year 1912-1913-contd.

Poona Division,	Sátára Division.	North Khandesh Division.	East Khándesh Division.	South Násik Division.	North Násik Division.	Total for the Forest year 1912-1913
Rs. a. p.	Bs, a, p,		Rs. a. p.	Rs. a. p.	Вз. в. р.	Re, a, p
		· ·	· .			
196 10 3	8,489 14 5				4,508 8 0	8,175 0 (
196 10 8	8,489 14 5				4,508 8 0	8,175 0 0
	·	~ <u></u>				
	-					
	******		****	646 FRB	991 000 944 994	1
177 5 7	108 4 0	614 15 0	111 0 0	155 8 9	42 9 0	1,736 13
177 5 7	108 4 0	614 15 0	111 0 0 •	155 3 9	42 9 0	1,736 13
			· ·			
2,593 10 8 1,684 15 3	6,323 2 6 4,690 8 8	2,939 0 6 9,215 15 2	955 12 0	840 12 0		15,220 4
	426 18 11	••••••	4,512 9 11 100 12 0	1,503 9 6	1,975 12 3	28,260 0 527 9 1
4,278 9 9	11,440 8 8	12,154 15 8	5,589 1 11	2,344 5 6	1,975 12 3	44,007 14 1
	;					
<b>637 4 5</b>	498 2 3	189 0 0	73 9 0	560 0 6	. 659 7 3	8,051 0
	· .			ł	1	
535 0 0	50 0 0	500	1=1,,,, 141,,,,	10 0 0	994 <b>58</b> 4	1,230 0
1,081 11 9	437 14 9	1,350 5 7	2,051 14 9	1,598 10 1	469 3 3	11,767 9 1
845 1 9 159 8 0	2,754 8 4 251 4 0	8,917 8 4	233 4 0	151 0 6	287 2 0	5,182 14
425 10 6	830 11 0	178 2 0	8,399 9 9 165 2 0	1,118 9 20 618 14 0	683 15 6 1,347 1 6	18,645 10 8,183 2
8,884 4 5	4,322 8 4	10,639 10 11	5,923 7 6	4,060 2 1	3,446 13 6	42,960 6
2,817 15 0	5 8 6 2,157 3 8	8,566 1 0	1,960 4 10	1,853 8 4	2,744 13 8	5 8 15,892 14
83 0 0	- 87 0 0	222 14 0	1,500 9 10	87 0 0	13 0 0	620 5
2,350 15 0	2,199 12 2	3,788 15 0	2,100 15 9	1,890 8 4	2,767 13 3	16,518 12 (
12,887 4 9	22,436 5 10	35,146 2 9	15,876 2 1	16,204 2 3	18,927 8 8	2,60,781 3 1
, \						
15,958 1 10	5,878 5 3	16,832 9 3	13,678 4 10	20,249 5 8	7,700 0 0	23,273 5 4 96,372 6 3
28,383 15 4	22,636 8 0	19,810 3 4	29,204 12 10	28,378 10 6	21,670 14 10	1,70,104 0 11
6,490 10 10	6,231 15 2	5,697 4 9	6,699 14 1	7,430 11 7	5,820 1 6	55,936 2 4
3 4 7	310 15 8	2,071 0 4	2 2 8	664 12 5	12 1 9	10,878 0 8
					۔ بر	
*****		******				
* *****	A*0 ) 1 4	414-488		******	414104	B14 478
764 896						******
4 88 c24	400	9 8 .0	4 8 0	2000+1 	, 2001.0 011.000	18 0 0
50,866 0 7	35,061 12 1	44,420 9 8	49,589 10 5	56,723 8 2	35,203 11 1	8,56,626 15 1
· · · ·						3,164 14 0
2,149 0 9	1,091 9 3	3,088 13 0	2,818 2 0	8,668 1 9	1,203 5 4	17,606 9 5
2,283 6 8	<b>2</b> ,216 9 0	2,874 9 0	2,416 3 6	2,609 11	1,784 11 8	15,653 4 8
744 0 9	447 8 8	734 6 4	830 10 10	783 10 5	444 6 1	5,905 13 1
	******	89 9 4			500	251 <b>2 4</b> 60 0 0
******	- ****** 1 205 31 10	40 <sub>.</sub> 00 1,13009		1,857 8 9	1,287 11 9	11,254 8 9
2,269 15 6	1,795 11 10 5,551 6 9	7,457 6 5	7,398 0 10	8,919 0 6	4,625 2 5	53,795 14 8
					253 15 8	2,303 10 5
395 5 6	301 1 10 274 7 8	332 15 3 227 8 0	413 5 4 232 5 0	356 12 9 237 4 0	79 1 0'	1,843 6 5
211 1 4 545 5 4	273 7 8 8 12 0	227 8 0 225 0 0	254 0 0	28 8 0	55 0 0	2,957 9 4
·	*** ***		ا } هورونو	1,085 1 0	721 6 6	6,724 7 B
1,040 8 0 327 4 6	1,009 11 2 297 5 6	681 8 6 815 2 11	956 2 6 414 5 2	1,085 1 0 457 12 2	165 0 6	3,570 6 8
*** , **		HIIII	2,016 2 0	2,165 6 6	1,274 7 8	17,899 8 6
·	1,886 5 9	2,282 2 8	2,010 0 0			
2,519 8 8				47 con 17 c	AT 102 E 9 5	4.97.922 K 10
2,519 8 8 · 60,832 0 6	42,499 8 7	54,160 2 9	59,003 13 8	67,807 15 2 84,012 1 5	<b>61,103 5 2</b> <b>60,030 13 5</b>	4,27,822 5 10 6,88,603 9 9

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FORM No. 24.-Summary of Revenue and Expenditure of the different Divisions for the Forest year 1912-1913-contd.

Budget Head.	Direction.	Belgaum Division.	Kánara, Northern Division.	Kánora, Eastern Division.	Kánara, Southera Division,	Kánara, Western Division.	Dhárwár Division,	Bijáp <b>ar</b> Division.	Ratnøgiri Division.	Working Plans Division.	Total for the Forest year 1912-1913.
SOUTHERN CIBCLE.	39. <b>•</b> . p.	Rs. a. p.	Rs. a. p.	.Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. P.	Rs, a. p.	Rs. a. p.	Rs. a. p.
REVENUE. -Timber and other Pro-					ξ						
duce removed from the Porests by Government Agency—											
a. Timber b. Firewood and char-	,19 <b>000</b>	- 1		2,86,046 7	<b>1</b>		1		-14 (19)	505.885 501.965	10,94,628 1 2 9,28,919 1 5
coal ···		1,69,589 0 9	41,644 11 8		6,789 1 9 0 11,241 15 11		******	0 9,679 7 4  1		419 (64	49,802 13
d. Sandaiwood c. Grass and other minor	•••••	3,964 7 5 28,355 3 5	616 3 10 92 13		U 11,231 10 11	0+4 v88			******	*****	28,448 0
produce		28,338 3 0	6,91,206 3			·	1 44,597 12		5	++= 4 g B	14,01,798 0
I.—Timber and other Pro duce removed from the Forests by Consumers o Purchasers—											
a. Timber		40,759 2 8	1,08,476 10	4 8,441 8	0 7,192 10	1,814 1 1	142,230 9	6 240 4	9 165 8 8	6,ad	2,07,819 18
A Bamboos		17,932 11 9 8,245 14 0		6 465 1 4 11,112 4	6 0,853 15 2 533 5	7.85,855 8 1 ) 1.480 6	1 1,163 3 4 3,629 10	7 5,815 7 6 23 10	9 647 2 1 0 36 5 (		72,952 5 48,447 5
d. Grazing and fodde		16,070 11	6,056 10	6 4,537 14	0 12 934 12	8.268 12	012.583 2	3 14,458 8 7 18,628 4	0 76 9 ( 6 11 14 )		74,6P4 14 65,831 14
. Other minor produce.	····	21,420 8					1 2,215 2	7 18,026	6 11 14 (	U	00,531 19 
A. Commutation fees . Total, II		1,04,428 10	1.47.894 15	2 27,134 18	3 87,111 10 1	1 49,941 3		5 39,166 3	0 937 1	· }	4,68,136 5
rr _ Twill and Wa	i/		1,11,000						-	• ] <u></u>	
Wood and Confiscal Forest Produce	**	259 11	6 43 6	3	177 8 1	0 154 9	4 17 15	9 3 12	0 18 6	0	674 5
Total, III		259 11	42 0	8	177 8 1	0 154 9	4 17 15	9 3 12	0 18 6	0	674 5
IF - Revenue from Fores not managed by Gover ment-	78-										
a. Duty on foreign tin ber and other fore produce							`	-			1 
b. Revenue from shar and private Forest	ed		********	41=14 41=144	*******				13 9	8	13 6
Total, IV	1								13 8		13 8
<b>V.</b> —Miscellaneous—							_	_	-		-
<ul> <li>a. Fines and forfeitur</li> <li>b. Rafands</li> <li>c. Other sources</li> </ul>	es. 	284 0 115 12 0 11,408 5	lo] <b>08</b>	3 101 11	8 8 2	10 4,719 13 0 88 8 8 2,595 4	8 88 4	0		() 	8,754 10 • 352 10 0 29,465 8
7. Other sources Total, V	2,166 18	6 11,806 2				6 7,658 5					~
Grand Total, Revenue		0 3,34,915 7	-	0 3,16,688		71,83,851 1	8 1 1,09,134 1	0 2 50,283 15		1) 18 12	
EXPENDITURE.		╾╎╌╌╌	•			╸┝╼╼╼╼		- [	-	• ]	~
A CONSERVANCY AND WORES.				-					-		
J.—Timber and other I duce removed from Forests by Governm Agency—	(AC)										
a Timber 6. Firewood and ch	81-	1 .	4 1,68,797 10		1	1	11 1,282 8		284114		8,53,250 13
coal c. Bamboos d. Sandalwood	2000 ppp0100 2000 cm1000	82,610 11 222 1	6 30,480 2 6 13 14	1	1,699 14						1,17,414 1
e. Grass and other mis produce	100 TO	222 1		0 209	6 11)	4	1,443	1		*****	2,266 9
Total, A-I		90,600 4	2 1,94,291 10		╍╼╍╎╼╾╌╾		10 2,628 4	┉┉	╼╌╎┍╌╕┈┲╌╼		4,75,691 8
11.—Timber and other P duce removed from Forests by Consumers	the				~						
Purchasors	***	949 6	9 191 ( 9 191 (			~_ <u>]</u>					2,590 5
Total, A-II	***	949 6	9 191 1	3 9 373 1	1 9 86 14	8 667 3		<b>1 3 146 6</b>	3 9 16 1		2,590 5
111.—Drift and W Wood and Confuse Forest Produce		55 4	0 9 0	0 0 8	0 0 10 8	0 10 15	3 11 4	6 0 3 1	2 0	44+ 8+6	90 12
· Total, A-III		55 4	0 3	0 0 3	0 0 10 9	0 10 1	3 11 4	6 0 8 1	2 0		90 1
IV,—Revenue from For not managed by Good ment—	rətə TM-										
o. Duty on foreign t ber and other for		{			•	1	}			L.	
produce b. Revenue from sha	red ana			****	***				*** +1+		*****
and private Fores Total, A-IV					6/1 4/4						
		3	414444	******	100-00	220544	1 00-000		*****		·******

······································			1		1				· · · · · · · · · · · · · · · · · · ·	<u>_</u>	<del>,</del>
Budget Head.	Direction.	Belgaum Division,	Kánara, Northern Division.	Kánara, Eastern Division.	Kánara, Southern Division,	Kánara, ' Western Division,	Dhárwár Division,	Bijápur Division.	Ratnágirí Division,	Working Plans Division.	Total for the Forest year 1912-1913.
EXPENDITURE —contd.	Rs. a. p.	Rs. a. p.	Rs. s. p.	Re. a. p.	Rs. B. p.	Rs. a. p.	Rs. S. p.	Rs. a. p.	Rs. a. p.	Ra. a. p.	Ba. a. p
A,-CONSERVANCY AND WORKS-contd.	1		ļ	1					1	ĺ	f .
P.—Rest of leased Forests and Payments to Share- holders in Foresis man- aged by Government				•							
Total, A-V	+64144 				*****		••••••	B149944			
TI Tinestock Stores.					·			414 808			••••••••
Tools and Plant- a. Purchase of cattle b. Feed and keep of	-	\$++++##	855 0 0	470 0 0	D		644 (MA)	4 4 4 <b>8 5 9</b>			825 0
cattle c. Purchase of stores,	******	e 14000	0,458 7 8	649 1 1	102 12 1	5	++1110	emut			7,110 6
tools and plant Total, A-VI	61 8 6	1,156 9 6 1,156 9 6	1,795 0 8 8,608 8 4	444 7 (				50 14 0	80 0 0		4,195 4
Total, A-V - M			0,000 8 4	1,463 8 1	486 8	8 211 8 0	62 14 0	50 14 0	80 0 0		12,180 9
and Buildings- a. Roads and bridges . b. Buildings c. Other works	400-556 440-50 444570	3,759 7 5 4,319 2 11 104 14 0	19,757 6 1 2,166 5 8 638 6 11		554 10 10 2,345 6 5 23 14	9,306 7 7 0 19,306 7 7 0 190 8 9			10 8 0	143 114 114	42,730 16 1 21,833 6 2,587 15
Total, A-VII		9,176 8 4	22,562 1 5	9,681 4	2,923 15	2 20,598 8 10	3,185 9 1	20 0 0	10 8 (		67,159 5
VIII.—Organization, Improvement and Ex- tension of Forest- a, Demarcation b, Cost of Forest Settle- ments and Compensa-	\$187×18	686 12 2	142 0 6	546 0 (	1,007 5	1 81 6 0	67 6 8	29 1 D			2,500 14
tion for land and rights c. Surveys d. Working-plans	0100,	919 15 8 . 12 7 0	eurese erses erses	49 7 1	<b>1,871 1</b>	1 8 5 2 0	971 446 499 493 - 499 493	84 8 1 	510 717 418	 4,107 <sup>°°</sup> 9 (	9,383 5 4,163 12
<ul> <li>c. Sowing and plant- ing</li> <li>f. Protection from fire.</li> <li>g. Other works</li> </ul>	P+22.55 818459 - P+22.00	591 2 1 4,672 6 1 190 7 6	1,528 15 0 0,483 14 3	1,129 1 6 6,718 14 11 - 1,122 1 6	898 0	8,246 6 5 3,877 10 7	2,783 6 5	69 <b>4</b> 0 73 18 0	518 15 5 80 0 0	6 646 618 174	23,296 11 32,041 1 1,313 15
Total, A-VIII		6,973 2 6	8,164 13 9	9,565 9 4	18,022 8	6,163 12 2	2,855 11 1	206 10 10	648 15 2	4,107 9 6	55,698 12
IX.—Miscellaneous— a Law charges b Other charges c. Grain Compensation Allowance	280	6,639 <b>6</b> 0 9 13 11	4,528 12 10 6 13 11	ſ	485 12 11 2,465 6 4 12 0 0	1 2,803 6 0		~51 8 1	159 <sup>°°</sup> 10 2 48 9 0	62 <sup></sup> 9 6	496 12 1 20,229 5 1 114 13
Total, A-IX	2 8 0		4,585 10 9	·	·	2,313 6 0	743 13 10	651 8 1	/ <u></u>	8) 9 6	
TOTAL, ACONSER- VANCY AND WORKS	63 6 6	1,14,559 5 2	2,33,317 5 5	1.59 597 4 4	97108 1 9	77,232 1 11	9.639 8 11	3,624 6 8	613 12 1	4,188 8 0	6,84,101 6
-ESTABLISHMENTS.											
Salariee #. Conservators b. Superior Officers c. Subordinato Forest and Depôt Estab	23,941 15 1 	17,250 5 2	20,400 5 2	12,847 1 7	10,047 14 8	7,430 0 0	7,964 4 7	4,569 S 2		8,816 2 0	23,941 16 89,806 6
lishments d. Office Establishments	250 0 0 7,785 3 5	29,775 7 9 5,536 9 0	31,815 9 10 6,450 7 0			20,846 5 3 5,208 6 9	16,840 15 11 4,616 4 2	9,877 14 9 8,163 12 5		648 3 7 1,120 7 9	
<ul> <li>Deputation and Special Allowances.</li> <li>Fachange Com- pensation Allow-</li> </ul>	******	340 15 0	1,018 19 4	834 8 8 ,	- 400	3 85 8 9	286 7 10	. a4a469		901 11 6	3,519 1
ance 1. Conservators 2. Deputy Conserva-	*****	*84+14		†aj res		141114		*8***8		-11	-6814
tors 8. Assistant Conser-		*18798	******	******			*****	*****	, <b></b>	***	
4. Extra Assistant Conservators		749 so4 -45 *46	414+1P 534 m3	442 494 440 498				249484 24918			****
g. Royal Bonus				<b>10 0</b> 0	500	as-44	13 8 0 29.701 8 6	4 8 0	2.101 8 6	11.496 8 4	77 0
Total, B-I ITravelling Allow-	31,977 2 6	52,893 5 5	<u> </u>	40,974 10 2	\$5,833 2 I	33,571 4 9	29,701 8 6	1,000 0 -			
a. Conservators b. Superior Officers c. Subordinate Forest	2,343 10 3	2,42) 7 0	3,514 12 0	1,936 <b>4</b> 5	2,897 0 B	2,010 0 0	1,819 0 0	1,310 6 8	••• •••	1,856 7 0	2,343 10 17,263 14
and Depôt Estab- lishments d. Office Establish-	,	2,506 5 8	2,812 0 1	1,863 4 4	1,945 12 5	1,943 11 8	1,690 13 5			109 8 0 417 1 8	13,133 0 9 5,36 5 9
monts	1,015 5 6	814 10 7	604 3 4	462 6	800 7 4	567 8 2	216 15 6	535 9 2 19 8 0	69 4 0 		2=0 12 4
(Dehra Dun) f. Piague allowanses g. Grain Compensation	75 0 0	27 10 8	75 0 0 	186 4 9	780	*****	85 0 0	410499		15 0 0 20 10 5	160 2 5 8,715 1 2
Allowance	78 15 6	925 8 5	2,015 15 5	1,575 5 7	1,336 11 7		811 13 7 8,444 8 6			607 10 B	47,259 16
Total, B-II	8,512 15 3	6,524 10 4	8,521 14 10	6,022 7 7	7,037 7 7	6,590 0 7			70 1 6		1,55) 7 1
a. Stationery b. Carriage of Tents	8 8 6	232 10 11	238 9 8	238 6 11	208 5 5	239 7 8 111 2 0	206 1 0 97 <b>4</b> 6		70 1 6 19 6 6		2,214 15 6
o. Ronts, Rates and Taxes	477 7 10 372 8 0	225 12 9 116 4 0	453 1 0	841 1 4	885 0 0	120 0 0	14 0 0				628 12 0
d. Pay of Police- guards e. Official Postage f. Sundries	545 4 9 441 10' 7	1,220 2 9 670 8 9	611 3 6 299 9 6	638 S 0 192 9 0	769 8 0 287 12 7	412 5 3 811 11 6	584 5 0 91 7 9		69 0 0 16 9 8	85 o	5.475 16 6 2,434 12
other Provinces								781 12 1 2	74 1 0		12,329 14 6
	1,845 7 8	2,515 7 2	1,602 7 5	1,405 4 3	1,670 10 0		975 2 3	╧╼╼┤╼		╶╼╼╾╽╼	
TOTAL, B-ESTABLISH- MENTS 3 GRAND TOTAL OF EXPENDITURE 3	7,835 9 5 6	- In the second s	69,853 9 10	and the second se					1		0,20,616 3 0
		74 409 49 1 79	08200 14 9 9	06,929 10 0	<b>XI'03X E II</b> II	19'0TO T DI	10,100 1 -1				

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# FORM No. 24.—Summary of Revenue and Expenditure of the different Divisions for the Forest year 1912-1913—contd.

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Budget Head.	Direction.	Working Plans Division.	Sukkur Division,	Jerruck Division.	Nausháhro Division.	Hyderabad Division,	Thar and Párkar Di vision.	Total for the Forest year 1912-13.
SIND CIRCLE. BEVENUE.	Rs. a. p.	Rs. a. p.	R5. 8. P.	Rs. a. p.	Rs. 8. P.	Rs. a. p.	Rs. a. p	Rs. a. p.
1.—Timber and other Pro- duce removed from the Forests by Government Agency—		· · · ·		•				· · · ·
a. Timber J. Firewood and char-	<b>754496</b>	*****	144 15 8 : 2,890 <sup>/</sup> 2 11	1,592 2 6	8 0 1,911 15 2	13 0 0 1,977 4 3		199 7 8 8,361 8 10
c. Bamboos d. Sandalwood	88629 <b>8</b> 8869 <b>86</b> 8869 <b>86</b>	444 984 930	2 000 0 11 20000 0 11	*****	······	19946 T. O		****** ******
•. Grass and other minor produce Total, I	<u>,,,,,,,</u>		192 6 0 3,217 8 7	30 0 0 1,622 2 6	8 15 10	685 15 2 2,676 3 5		917 5 0 9,478 5 6
1000, 1		·			·	[		
11.—Timber and other Pro- duce removed from the Forests by Consumers or Purchasers—	· · · · · · · · · · · · · · · · · · ·	•	•					, , 1 <u>1</u>
<ul> <li>a. Timber</li> <li>b. Firewood and charcoal.</li> <li>c. Bamboos</li> <li>d. Grazing and fodder</li> </ul>	204000 	001050 000559 00050	19,203 1 1 83,504 1 4	21,268 12 2 73,995 9 11 	4,880 3 1 19,558 0 4	43,361 2 5 69,489 9 8	197 9 0 168 6 0 	87,910 11 9 2,46,735 11 3
grass . Other minor produce .	401+40 - 41147b	<b>800</b> 030 891 994	11,638 8 2 2,010 1 8	6,484 7 8 2,884 8 0	6,723 14 9 2,272 6 0	13,000 4 6 28,842 2 4	2,317 8 0 26 2 0	40,164 11 1 36,034 15 0
f. Other items g. Commutation fees	****** *** . **	***** ******	++++++ 594 ++u	*****	******	+18161 +28442 	******	551 ***
Total, II 🚥	•••••	014.460	1,15,355 12 8	1,04,633 0 9	33,434 8 2	1,54,693 2 11	2,729 9 0	4,10,816 1 1
III. Drift and Waif Wood and Confiscated Forest Produce	1 		88 14 0	210	2690	29 15 9	******	147 7 9
Total, III			88 14 0	210	26 9 0	29 15 9	*****	147 7 9
2VRevenue from Forsets not managed by Govern- ment-				•			- -	
a. Duty on foreign tim- ber and other forest		· · ·						
b. Bevenue from shared and private Forests	464 928	) *****	******	*****	******	*****	******	******
Total, IV		110-140 		******		••••••	******	
VMiscellaneous-						· ·		}
a. Fines and forfeitures . b. Refunds		92 2 2	17300 19684	730 7 0 218 3 7	74 0 0 72 0 0	820 5 5 142 14 1	040	1,797 12 5 722 0 2
c. Other sources	270	0 15 0	12,293 8 2	3,399 0 6	9,412 15 1	7,599 0 10	******	32,707 9 7
Total,V Grand Total, Revenue	270	93 1 2	12,662 11 6 7,31,324 14 4	4,347 11 1	9,558 15 1	8,562 4 4	040 2,729130	35,227 6 3 4,55,699 4 6
EXPENDITURE. ACONSERVANCY AND WORES.								
I.—Timber and other Pro- duce removed from the Rorents by Government Agency—	[	· ·						
a. Timber	******	***	340	•••••	******		588.058	340
coal	******	966.976 957.039	2,745 9 2	1,122 4 7	1,330 7 8	2,524 15 9	634 938 833 123	7,723 5 2
d. Sandalwood e. Grass and other minor produce	******	677 549 68, 579	- 102404 T4044	*****	4 5 4 4 5 E	 1,102 12 9	******	•••••• 1,102 12 9
Total, A-I	+75×48	******	2,748 13 2	1,122 4 7	1,830 7 8	8,627 12 6		8,629 5 11
11.—Timber and other Produce removed from the Porests by Consumers								
or Purchasers Total, A-II	******		85 14 0 85 14 0	161 14 0	103 2 0	119 10 0 119 10 0	******	470 8 0
III.—Drift and Waif Wood	·							470 8 0
and Conjucated Forest Produce				·····				
Total, A-III			******		·	40g/rs		******
IVBevenue from Poresta not managed by Govern- ment-					•			
e. Duty on foreign tim- ber and other forest produce								
produce 5. Revenue from shared and private Forests	******	346 yay	******	*****		******	868.000 484.64	
Total, A-IV					*****		******	
) 		1	l <u> </u>	(	۱			t

# FORM No. 24.—Summary of Revenue and Expenditure of the different Divisions for the Forest year 1912-1913—concld.

Budget Head.	Direction	Working Plans Division.	Sukkur Division.	Jerruck Division,	Nausháhro Division.	Hyderabad Division.	Ther and Párkar Division,	Total for the Forest year 1913-13.
EXPENDITURE—concid. A.—Conservanoy and Works—concluded.	. Rs. a. p.	Bs. a. p.	Rs. s. p.	Bs. B. P.	Re. a. p	. Rs. a. p.	Rs. a. p.	
YRent of leased Forest and Payments to Share- Molders in Forests managed by Government	-				ł		1	
Total, A-V	• ••••••		****** 					*******
VILive-Stock, Stores, Toole and Plant-			•	·			·	-
a. Purchase of cattle b. Feed and keep of cattle	1		155 0 0			80 0 0		235 0 0
c. Purchase of stores, tools and plant		441 0 0	190 12 9 434 10 0		***	726	*54 ***	207 15 3
Total, A-VI		441 0 0	780 6 9		53 0	₋ ╎─────	******* 	3,182 1 3
<b>VII.</b> —Communications and Buildings—			·	•	•			-
a. Roads and bridges b. Buildings		obrosą				*****	******	
o. Other works		******	2,251 10 11 1,622 13 3		325 9 10 1,375 2		110.11	3,657 6 3 8,301 10 7
Total, <b>A-VII</b>		·····	4,074 8 2	4,251 6 9	1,700 12	5 1,932 5 5		11,959 0 9
VIII.—Organization, Im- provement and Extension of Forest—								
a. Demarcation b. Cost of Forest Settle- ments and Compen- sation for land and rights		******		601 <sup>118</sup>		1+++++++	*****	*****
. Surveys		1,550 10 9	451 4 7	605 8 6	428 12 (	895 3 0	808198 <b>8</b> 8911988	3,431 6 10
<ul> <li>Sowing and planting.</li> <li>f. Protection from fire</li> <li>g. Other works</li> </ul>	504104	-444444 -644444	3,052 10 10	562 0 8	404 15		400 age 100 age	5,169 0 11 1,504 3 11
Total, A-VIII		1,550 10 9	8,503 15 5	2,678 13 1	2,002 9 2	1,631 13 0	******	2,807 11 0
ISMiscellancous-					2,002 9 2			
a. Law charges				· .				
b. Other charges c. Grain Compensation .		29 4 0	1,291 11 0 252 18 11	1,383 9 0 11 13 9	547 12 0 98 0 0		696868 202200 202200	5,421 14 7 472 1 11
Total, A-IX 🐽	1,353 3 3	29 4 0	1,474 8 11	1,395 6 0	645 12	3 993 13 1		5,697 0 6
TOTAL, A-CONSERVANCY AND WORKS		2,030 14 9	12,068 2 5	9,921 13 2	5,835 11 6	10,013 1 9	*#1294	42,140 7 1
BESTABLISHMENTS.				-				
1.—Salaries. a. Conservators								
<ul> <li>b. Superior Officers</li> <li>c. Subordinate Forest and Depôt Establish-</li> </ul>		700 0 0	9,754 6 6	9,900 0 0	5,400 0 0	6,960 0 0	448 226 844 778	47,716 6 6
d. Office Establishments. 	6,170 7 8	1,034 5 10	22,129 15 7 5,635 7 5	13,997 5 11 4,694 1 3	9,710 0 8 4,394 5 2	12,082 12 6 4,672 1 0	1,595 9 4	59,814 11 9 26,500 12 4
Allowances 🤤 f. Exchange Compensa- tion Allowance-	1,950 12 9	339 610 '	1,069 5 8	479 8 0	12 0 0	16 13 3	*****	5,867 9 6
1. Conservators		641.10 -				\$ \$45***	*	
8. Assistant Conserva-	******	400 p.01	999724		++=*** <b>*</b>	<b>P1111111111111</b>	*****	
tors 4. Extra Assistant Conservators		*****	******		******			400 me
	······	•••••••	***** <b>*</b>				****** ******	
Total, B-I	23,121 4 5	2,078 12 8	88,558 8 2	29,070 10 2	19,516 5 7	. 23,631 10 9	1,595 9 4	1,37,597 8 1
IITravelling Allow-							· .	****
a. Conservators b. Superior Officers c. Suborvinate Forest and	2,974 1 4	200 0 0	3,035 11 11	1,812 11 0	1,224 15 4	1,869 14 0	984-148 888-18	11,117 8 7
Depôt Establishments. d. Office Establishments.	959 11 5	170 8 8	1,599 8 4 1,471 10 7.	900 15 11 1,262 10 3	866 <b>2</b> 5 952 7 0	872 12 3 1,116 5 11	888	4,329 4 11 5,933 5 10
c. Forest Schools (D.D.). f. Plaque allowance g. Grain Compensation .	75 15 6	30 8 10	83 1 0 1,602 0 4	1,197 1 9	  635 6 8	1,013 5 9	201 9 10	- 83 1 0 4,7:0 0 8
Total, B-II	4,009 12 -8	401 1 6	7,791 14 2	5,263 6 11	3,678 15 5	4,872 5 11	201 9 10	26,919 2 0
II.—Contingencios –	•							
a. Stationery b. Carriage of Tents and	24 8 0	11 12 0	174 10 9	152 3 7	9959	123 15 0	Par 162	586 \$ 1 1.291 13 2
c. Rents, Rates and Taxes	374 7 4	1000	800 11 11 61 8 11	245 3 8 1,636 0 0	174 4 8 338 0 6	197 1 7 258 0 0		2,293 9 5
d. Pay of Police guards. c. Official Postage f. Sunstries	261 9 0 271 7 8	25 0 0 212 12 11	868 11 6 567 14 6	496 9 6 976 10 6	592 18 0 243 14 9	440 10 6 327 11 6	500,000 500,000	2,641 14 0 1,900 7 5
ayments to Officers of other Provinces		******		######################################	dat ju e			
Total, B-III •••-	931 3 7	349 8 11	1,973 9 7	2,706 11 8	1,448 6 8	1.347 6 7	*****	8,756 14 7.
TOTAL, B - ESTABLISH- MENTS	28,062 4 3	2,824 7 1	48,353 10 11	87,04) 12 4	24,643 11 8	29,851 7 8	1,797 3 2	1,72,579, 8 8
GRAND TOTAL OF EXPENDITURE	29,742 15 6	4,845 5 10	61,021 13 4	46,962 9 6	30,479 7 5	39,864 9 0	1,797 3 2	3,14,718 15 9
	L	· ·						

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FORM No. 25.—Annual	Account	Current for the	Forest year	1912-1913.
			•	

NORTHERN CIRCLE.	Rs. a. p.	Rs. s. p.		Rs. a. p.	Rs. a. p
)pening Balance	***	418 0 6	By 1. Refunds and Drawbacks— Refunds—		
VIII.—Assessed Taxes—In- come Tax—	·· •	•	Divided Heads, Forests	• • • • •	4,313 3 9
Deductions by Gov- eroment from Sala-			. 11. Forest (as per Annual		7,10,878 5 (
ries and Pensions Tax on other sources of Income, recoveries	4 <b>4 4 160</b>	2,944 3 10	Summary, Form No. 24). Savings Bank Deposits—	*****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
by Revenue Author- ities	*****	· ••••	General Provident		6,069 2 (
XForest (as per Annual		,	Fund " 32. Miscellaneous—Miscella-		6,069 2 (
Summary, Form No. 24)		15,32,472 0 8	neous Refunds—		
XIIInterest- Interest on Advances			Lapsed Deposits Miscellaneous and un-	<b>25 0</b> 0	
to cultivators XXVMiscollaneous	•=•••	62 13 1	foreseen charges (Pro- vincial) other unfore- seen charges	240 7 11	
Sale-proceeds of Stores			" Civil Deposits—		
and Materials (Pro- vincial)	<b>487</b>	• • • • • • •	Forest Deposits		90,216 5 2
Unclaimed Deposits— Other Deposits		64444B .	"Advances Recoverable—	110,000 0 0	, , ,
Bombay Uncovenanted Service Family Pension Fund	****		Forest Advances	4,13,220 0 3	•••••
Widows' Branch Life Assurance Branch	*** ***	73 6 6	Officers for the purchase of conveyances, tents, etc	300 O O	]
ivil Deposits— Forest Deposits		1,03,193 7 <b>3</b>	Tentage Advances to Gazet- ted Officers Objection Book Advances	16 9 4 2,759 <b>0</b> 0	4,16,295 9
Advances Recoverable— Forest Advances	4,33,734 7 9		" Cash Recoveries	• • • • <b>•</b> • •	753 4 1(
Advances to Non-Gazetted Officers for the purchase			" Cheques and Bills—Depart- mental Cheques—	•	
of conveyances, tents, etc. Tentage Advances to Gazet- ted Officers	252 9 4 116 11 6	<b>}4,36,904 4 6</b>	Forests		43,923 11 10
Objection Book Advances .	2,800 7 11		" Forest Remittances—		ц 
Cash Recoveries Cheques and Bills (Depart-	******	753 4 10	Remittances to Treasuries.	14,88,186 10 7	
mental Cheques), Forests .	464 486	7,92,658 6 0	Inter-departmental Trans- fers • ••• ••• •••	289 13 9	<b>}14,88,810</b> 7
Forest Remittances— Remittances to Treasuries.	2,045 6 9		Inter-divisional Transfers	333 15 2	5
Inter-divisional Transfers Inter-departmental Trans- fers	483 15 2 13,755 6 0	> 16,284 11 11	" 33—Famine Relief— VI. Miscellaneous grass		
ounts Current—	:		operations •••	*****	1,37,132 5
Account between Bombay and Post Office—			Accounts Current-		
Postal Fund Deductions	*****	311 3 4	By Account between Bombay and Military, Bombay- (Western Circle)	•	·
Provincial Advance and Loan Account— Advances to Cultivators	•		IV. Itoms adjustable by Military	· ••••	4,434 10
under Land Improve- ment and Agriculturists			" P. W. D. Remittances—		
Loans Acts	******	336 12 0	" III.—Other Remittances—		
P. W. D. Remittances— III.—Other Remittances—			Miscellaneous	*****	340 6
Bents of P. W. D. Buildings Miscellaneous	1,405 10 10 61 8 0	} 1,467 2 10	" Provincial Advance and Loan Account—		
Forest Officers' Provident	61 8 0	J	Advances to cultivators under Land Improvement and Agriculturists Acts		802 0
Fund General Provident Fund		574 14 6 16,063 5 6	Closing Balance	••••	603 8 446 8
Total, Northern Circle	•••••	29,04,518 1 3	Total, Northern Circle		29,04,518 1

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:			•	,	-continued.	
CENTRAL CIRCLE.	Rs. a	. p. Rs.	a. p.		B. a. p	
To Opening Balance	*****	1 400		By 1. Refunds and Drawbacks-Re		Rs. B.
"VIII. Assessed Taxes—Income Tax— Deductions by Government from		1,468	818	iunas		
Salaries and Pensions	*****	· 3,46	3158		******	9,019 2
Tax on other sources of Income, Recoveries by Revenue Author- itics	•			mary, Form No. 24)	** ****	6,88,603 9
*** ***	*****		***	", 14. Interest on other Obligations-		
" 1X. Forest (as per Annual Summary, Form No. 24)	•••	10,71,32	8 2 11	Savings Bank Deposits- Interest on Forest Officer Frovident Fund	B <sup>2</sup>	
"XII. Interest— Interest on Advances to land holders	-4 - 4 - 64	989	260	" 32. Miscellaneous-Miscellaneou unforeseen charges (Provincial other unforeseen charges	りょ	64 6
"XXV. Miscellaneous— Sale-proceeds of Stores and Materials (Provincial) Judi Unclaimed Deposits—Other	*******	67	737	" 32. Miscellaneous-Miscellane ou Refunds-(Provincial)		
Deposits	, =+ ++ =+	****		Lapsed Deposits	••••••	15 0
Provincial Advance and Loan Account	******			" 33. Famine Relief- VI. Miscellaneous, Grass Opera	J .	
, Bombay Uncovenanted Service Family Pension Fund-				tions	*****	\$,09,336 11
Widows' Branch Life Assurance Branch		570	81		••••••	43,326 6
"Civil Deposits—	******	****	**	"Advances Recoverable— Forest Advances	5,82,872 5 1	10
Forest Deposits		55,818	878	Tentage Advances to Gazetted Officers	620 K	4
Advances Recoverable-				Objection Book Advances	2,879 0	0 5,86,560 11
Forest Advances	5,18,077 0	0		Advances to Non-Gazetted	t i	
Tentage Advances to Gazetted Officers Objection Book Advances	490 14	6 5,23,575	5 10		1 6552 ()	0
Advances to Non-Gazetted	5,007 7	4 J		" Cash Recoveries	1	1,352 9
Officers for the putchase of tents, etc.	******	582	14	" Cheques and Bills—Departmenta Cheques—		
Cash Becoveries		1,352	95	Forests	•••	9,576 14
Cheques and Bills (Departmental Cheques), Forests	******	7,25,541	71	"Forest Remittances— Remittances to Treasuries …		9,14,253 2
Forest Remittances—		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• •	Inter-departmental Transfers	******	14,818 11
Remittances to Treasuries	••••	14,719	6 10	Inter-divisional Transfers	•••	680 0
Inter-departmental Transfers	1	27,350		Accounts Current-		
Inter-divisional Transfers		845		By Account between Bombay and Mili- tary, Bombay—(Western Circle.)		
ounts Current—				IV. Items adjustable by Military, Miscellaneous		16,647 0
o Account between Bombay and Post Office Postal Fund Deductions	*****	835 1		"Account between Bombay and Millitary Supply Circle— IV. Items adjustable by Mili-	· · ·	
ccount between India and Bombay-			- 1	tary Miscellaneous	** * * * *	962 8 0
L Items adjustable by India-			,	(Ordinary Brenches)- , Accounts between Bombay and		
Account between Bombay and P. W. D., Bombay-				Public Works Department, Bombay- P. W. D Remittances-		1
7. Items adjustable by P. W. D				Inter-departmental Transfers	*** **	******
Payments into Treasuries by Civil Officers on account of P. W. D	2,663 7 11	b ·	.	III-Other Remittances, Miscel- lancous Account between Bombay and	·	188 11 3
W. D. Remittances-		9,700 9		Public Works Department-		
III. Other Remittances— Rents of Public Buildings— Miscellaneous ••• ••• •••	44 11 1	2,708 8	Ĭ	IVItems adjustable by Public		
rest Officers' Provident Fund	·····*	ر 371 7	1	General Provident Fund	••••	**************************************
General Provident Fund	•••••	12,462 4		Closing Balance	•••	1,291 12 7
· · · · · · · · · · · · · · · · · · ·					· =	4,46,548 1 11

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# FORM No. 25.-Annual Account Current for the Forest year 1912-1313-continued.

	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. 8. 1
SOUTHERN CIRCLE.		573 7 2	By 1. Refunds and Drawbacks- Refunds-	· ·	
Fo Opening Balance	*****		Divided Heads, Forest	*****	1,837 5
,, VIII. Assessed Taxes-Income Tax- Deductions by Government			" 11. Forest (as per Annual Sum- mary, Form No. 24)	*****	10,10,546 1
from Salaries and Pensions. Tax on other sources of	*44	2,997 9 2	" 14. Interest on other Obliga-		• -•
Income, Recoveries by Revenue Authorities	****	••••	tions		
"IX. Forest (as per Annual Summary, Form No. 24)	*****	19,08,194 12 7	Provident Fund	*****	-74 8
» XII. Interest-			" 32. Miscellaneous—M i scellaneous Refunds—		
Interest on Arrears of Revenue.	*****	1,495 15 4	Lapsed Deposits Miscellaneous Irrecoverable	******	2,046 4 3
"XXV. Miscellaneous-			Temporary Loans written	8 43 <sup>9</sup> 4 8	<u>64</u> 0
Materials (Provincial) Unclaimed Deposits—Other	*****	*****	" Civil Deposits—Forest Deposits .	+a#1	70,022 13
Deposits	••• <b>•</b> ••	******	" Advances Recoverable— Forest Advances	6,03,444 0 11	
" Bombay Uncovenanted Service Family Pension Fund—			Advances to Gazetted Officers	0,03,444 0 11	
Widows' Branch Life Assurance Branch	/ 96 11 6 64 1 3	160 12 9	for motor	250 0 0	
"Civil Deposits—Forest Deposits	*=***#	79,145 9 5	Tentage Advances	203 4 0	6,07,639 15
Advances Recoverable- Forest Advances	6,05,197 9 3		Objection Book Advances Advances to Non-Gazetted Officers for purchase of	2,506 5 4	
"Advances to Gazetted Officers for motor	1,500 0 0		conveyances, etc.	1,237 5 4	J
Tentage Advances	282 11 2	6,10,580 15 9	" Cash Recoveries	******	],175 10
Objection Book Advances	2,258 3 4		", Cheques and Bills-Departmental Cheques- Forests		9044-0
Advances to Non-Gazetted Officers for purchase of conveyances	1,342 8 0		"Forest Remittances—	•••	, <b>2,</b> 844, 2
" Cash Recoveries	*****	1,175 10 5	Remittances to Treasuries	14,94,959 9 9	} }14,95,688≐0
"Cheques and Bills (Departmental Cheques), Forests		10,12,181 3 4	Inter-departmental Transfers Inter-divisional Transfers	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	,00,008 V
"Forest Remittances-	*****	10,12,101 3 4	" Savings Bank Deposits— General Provident Fund		2,963 2
Remittances to Treasuries	1,284 13 0	h	Accounts Current- By Account between Bombay and		
Inter-departmental Transfers	<b>2,928 4 0</b>	4,634 1 0	Military, Supply Circle- IV. Items adjustable by		
Inter-divisional Transfers	426 0 0	J	Military, Miscellan ous , Account between Bombay and Military (W. C. Bombay)-		4,409 7
Accounts Current— I'o Account between Bombay and			IV. Items adjustable by Military	*=*,e*	<b>346</b> 8
Post Office-		150 0 0	" P. W. D. Remittances—		
Postal Fund Deductions	**!\$*8	452 9 3	"III. Other Remittances-Rent of Public Buildings	131	9,589 9
III-Items adjustable by India- Miscellaneous	,3009ap	50 0 0	Miscellaneous	9,588 6 1	5,008 5
" P. W. D Remittances—			Bombay- III. Items adjustable by India		
III. Other B mittances- 1V. Rents of Buildings	1,926 5 4		Miscellaneous , Account between Bombay and Public Works Department—	*****	50 0
Do. Miscellaneous	1,830 1 3	\$ 3,756 6 7 )	(Railway Branch, M. & S. M. Railway)-		
General Provident Fund		15,644 10 2	IV. Items adjustable by Pub- lic Works Department		4,03,310 1
, Account between Bombay and Public, Works Department, Bailway Branch,			"Account between Bombay and Telegraphs	4491 <b>4</b> 4	22 6
M. & S. M. Railway- IV. Items adjustable by Public			Works Department, Railway Branch, Oudh kohikhund Ry.		
Works Department	, \$30×43	J57 8 O	IV. It ins adjustable by Public Works Department	******	157 8
s, Account between Bombay and Public Works Department, Sailway Branch Oudh & Rohilkhand Railway-			"33. Famine Reliet— VI. Miscellaneous—Grass Op-		00 DEE - 5
IV. Items adjustable by Public Works Department		J57 8 0	erations Closing Balance	*****	28,355 3 364 15
Total, Southern Circle	*****	36,41,358 10 11	Total, Southern Circle	******	36,41,358 10 1

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SIND CIRCLE.	Rs. a. p.	Be a p.		Rs. s. p.	Rs. s. 1
To Opening Balance		214 5 7			
, VIII. Assessed Taxes-Income Tax- Deductions by Government			By 1. Refunds and Drawbacks- Refunds		
from Salaries and Pensions, " Tax on other sources of Income,	**- <b>100</b> 5	1,322 10 1	Divided Heads, Forest	*****	913 15
recoveries by Bevenue Authorities IX. Forest (as per Annual Summary,	• • • • • •		,, 11. Forest (as per Annual Sum- mary, Form No. 24)	*** ***	2,14,713 15
Form No. 24)	******	4,55,699 4 6	, 14. Interest on other Obliga-		ļ
» XII. Interest- Interest on arrears of Revenue , III. Other Remittances-		••••	tions		
Miscellaneous		******	Savings Bank Deposits Interest on Forest Officers' Provident Fund		***
"XXV. Miscellaneous				*****	
Materials (Provincial) Unclaimed Deposits-Other	*****	*****	,, 32. Miscellaneous-Miscellaneous Refunds-		
Deposits	<b>786 1</b>	<b>540</b> · · ·	Lapsed Doposits	**]***	
"Bombay Uncovenanted Service Family Pension Fund—			Civil Donasite Format Donasite		
Widows' Branch	*****	••••	,, Civil Deposits-Forest Deposits	84816 <b>8</b>	20,837 7
Life Assurance Branch		28,565 3 6	,, Advances Recoverable-		
"Advances Recoverable—	***	28,565 3 6	Forest Advances Tentage Advances	*****	1,17,100 1
Forest Advances		1,13,277 13 1	Objection Book Advances	* - 56 94 42 <b>4</b> 0 94	265 0
Officers Objection Book Advances	****** <i>*</i>	27 11 7 781 10 8	,, Cash Recoveries		119 8
u Cash Repoveries	******	119 8 0	" Cheques and Bills (Departmental	*** • • •	
, Cheques and Bills (Departmental Cheques), Forest		2,30,658 11 5	Cheques) Forests		04
Forest Remittances-				* 67, 58	
Remittances to Treasuries Inter-departmental Transfers	*****	140 8 6 182 8 3	" Forest Bemittances— Remittances to Treasuries		4,71,724 18
Inter-divisional Transfers	••••• - • • • • <b>• • •</b>	182 8 3	Inter-departmental Transfers.	****	80 8
ccounts Current-		•			
o Account between Bombay and Post			Accounts Current- By Account between Bombay and		
Postal Fund Deductions		30 14 0	Military, Bombay-	, · · ·	
,, Account between India and Bombay			IV. Items adjustable by Mili- tary	*****	E44749
"P. W. D Remittances-			"Account between Bombay and Public Works Department,		1
III. Other Remittances- Rents for public buildings		860 11 10	Bombay (Railway Branch)	*****	20 0
Account between Bombay and Public Works Department, Bombay-			" IV. Items adjustable by P. W. Department-	•	
IV. Items adjustable by Public	•		" Public Works Department Remit-		
Works Department	•		tances IIL Other Remittances Miscellaneous ***	east - e	12,261 10
Civil Officers on account of Public Works Department	******	• 100-00	General Provident Fund		. 87 8
Miscellaneous	499- <b>74</b>	640	Closing Balance	*****	154 0
, Forest Officers' Provident Fund		•••••		[	8,87,778 8 1
General Provident Fund	• • • • • •	6,441 0 10 8,97,778 8 10	Total, Sind Circle 🧰		
Total, blud Circle		0,01,170 0 10	GBAND TOTAL		98,80,198 6 1

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FORM No. 26. - Revenue received and Outstandings on account of Revenue during 1912-1913.

<u> </u>		0 h-h - <sup>3</sup> / <sub>2</sub>	Talas of Salas and			Balance due to the	
Division.	Particulars.	Outstandings at commencement of year.	Value of Sales and other Revenue during year.	Total.	Amount realized during year.	Department at eud of year.	Kemarks.
1	2	3	4	5 (	6	7	8
	NORTHERN CIRCLE. Various sources Timber and other Forest Produce.	R3. a. p.	Rs. a. p.	Rs. a. p. 377 13 0 94,033 12 8	Rs. a. p. 377 13 0 71,050 12 8	Rs. a. p. 22,988 0 0	
Surat North Thána . Central Thána. South Thána . Kolába Direction (Famine	Do Do Do Do Do Do Do	7,875 0 0 18,999 8 0 	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1,07,849 11 11 5,48,524 8 7 2,86,231 4 5 2,49,383 10 1 1,22,928 12 2 1,46,104 13 2	1,529 8 5  834 2 0	
Fodder). Working Plans	Various sources	469788	20 10 8	20 10 8	20 10 8	•••	
	Total, Northern Circle . CENTRAL CIRCLE.	26,874 8 0	15,30,949 3 1	15,57,823 11 1	15,32,472 0 8	25,851 10 5	
East Khán-	Timber and other Forest	3,119 0 0	2,00,775 1 1	2,03,894 1 1	2,03,894 1 1	, ••••	:
desh. West Khán- desh.	Produce. Do	10,897 0 0	1,58,606 5 4	1,69,503 5 4	1,56,000 5 4	13,503 O O	
North Khán- desh.		******	98,032 12 11	98,032 12 11	98,032 12 11		
North Násik South Násik Sátára Working Plans, Central Circle Famine Fod	Do Do Do Do	253 0 0	85,635 2 4 1,10,495 10 8 1,10,923 3 9 63,322 9 11 24 13 7	85,635 2 4 1,10,495 10 8 1,10,923 3 9 63,575 9 11 24 13 7	84,100 2 4 1,10,195 10 8 1,10,923 3 9 60,918 1 11 24 13 7	1,535 0 0 300 0 0 2,657 8 0	
der— West Khán-	_	*****	1,78,906 5 4	1,78,906 5 4	1,78,906 5 4	*=>*=>	
desh. South Násik. Direction	Do Do,	*****	67,428 8 8 904 1 4	67,428 8 8 904 1 4	67,428 8 8 904 1 4	******	
	Total, Central Circle		10,75,054 10 11	10,89,323 10 11	10,71,328 2 11	17,995 8 0	
Ň	SOUTHERN CIRCLE.						
Kánara, North ern. Kánara, South	- Timber and other Forest Produce. Do.	1,20,401 7 10 120 10 7	9,37,425 6 4 63,630 5 8	10,57,826 14 2 63,751 0 3	8,41,480 2 0 63,732 0 7	2,16,346 12 2	
ern. Kádara, East	1	99.000 0 0	<b>3,75,947 11 9</b>	4,09,047 5 5	<b>3,17,603 11 3</b>	18 15 8 91,443 10 2	
ern. Kánara, West ern.	. Do	14,288 0 11	2,09,682 2 2	2,23,970 8 1	1,88,851 12 1	35,118 7 0	7
Belganm Dhárwár Bijápar Ratnágiri Direction Working Plans	Do. Do. Do. Various sources Do.	27,006 0 0 3,212 4 0	4,05,549 5 1 1,17,513 10 2 49,098 3 6 2,913 12 1 2,166 13 0 18 12 0	4,27,033 1 4 1,44,519 10 2 52,310 7 6 2,913 12 1 2,166 13 0 18 12 0	3,34,946 7 10 1,09,134 10 2 50,293 15 6 1,071 0 1 2,166 13 0 18 12 0	92,086 9 6 85,385 0 0 2,016 8 0 1,842 12 0	<b>,</b> , ,
	Total, Southern Circle . SIND CIRCLE.	2,19,611 13 8	21,63,946 1 9	23,83,557 15 0	*19,09,299 4 6	4,74,258 10 6	* Includes Rs. 1,104-7-1 written off.
Sukk <b>ur</b>	I. Timber and other produce removed from the Forests by Govern- ment Agency-	•				~.	
	(b) Firewood and char- coal.		144 15 8 2,348 3 2	144 15 8 3,567 12 4	144 15 8 2,880 2 11	687 9 5	
, ' -	(e) Grass and other minor produce. II. Grass and other minor produce removed from the Forests by consumers or pur- chasers—		192 6 0	192 6 0	192 G Q	•••• <b>4</b>	
	(a) Timber (b) Firewood and char- coal.	8,599 10 1 34,312 7 3	17,252 3 2 81,244 0 5	25,851 13 3 1,15,556 7 8	18,203 1 1 83,504 1 4	7,648 12 2 32,052 6 4	
	(d) Grazing and fodder grass,	*****	11,638 8 2	11,638 8 2	11,638 8 2	*****	
	(e) Other minor pro- duce. III. Drift and waifwood and confiscated Forest produce.	•••• <b>a</b> y	2,010 1 8 88 14 0	2,010 1 8 88 14 0	2,010 1 8 88 14 0	•*****	The outstanding against Vc. at the close of the yes
	Total	44,131 10 6	1,14,919 4 8	1,59,050 14 9	1,18,662 2 10	40,388 11 11	amonnt to R

FORM No. 26.-Revenue received and Outstandings on account of Revenue during 1913-1913-continued.

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 oud of year.	Remarks,
1	2	8	4	5	· 6	7	8
	SIND CIRCLE-contd.	Rs. a. p.	Rs. a, p.	Re. a. p.	Rs. a. p.	Rs. a. p.	
Nausháhro	I. Timber and other produce removed from the Forests by Govern- ment Agency- (a) Timber		41 8 0	41 8 0	41 8 0		
	(b) Firewood and char- coal.	*****	1,911 15 2	1,911 15 2	1,911 15 2	• • • • • • • • • • • • • • • • • • •	•
	(e) Grass and other minor produce. II. Timber and other produce removed from the Forests by consum- ers or purchasers—		8 15 10	8 15 10	8 15 10		
	<ul> <li>(a) Timber</li> <li>(b) Firewood and char-</li> </ul>	2,102	4,602 11 8 18,448 0 1	6,704 14 5 26,856 13 0	4,890 8 1 19,558 0 4	1,824 11 4 7,298 12 8	•
	coal. (d) Grazing and fodder	••••	6,723 14 9	6,723 14 9	6,723 14 9	••••	
	grass. (e) Other minor pro- duce.	*****	2,272 6 0	2,272 6 0	2,272 6 0	*****	The outstanding under Vo. at the close
	III. Drift and waifwood and confiscated Forest produce.		26 9 0 ,	26 9 0	26 9 0		l' tho year amonnts to Rs. 99-0-8,
	Total	10,511 0 1	34,036 0 1	44,547 0 2	8,5423 8 2	9,123 8 0	•
Hyderabad 🚥	the Forests by Govern- ment Agency-		. 13 0 0	13 0 0	13 0 0		
	(d) Timber (b) Firewood and char- coal.	***	13 0 0 1,977 4 3	1,977 4 3	1,977 4 8	******	
	(e) Grass and other minor produce. II. Timber and other produce removed from the Forests by consum- ers or purchasers—	•	585 16 2	685 <b>15 2</b>	685 ]5 2	1	
	<ul> <li>(a) Timber</li> <li>(b) Firewood and charcola</li> </ul>	12,811 11 0 19,217 9 0	47,179 9 5 75,217 6 8	59,991 4 5 94,431 15 8	43,361 2 5 69,489 9 8	16,630 2 0 24,945 6 0	
	(d) Grazing (e) Other minor pro- duce.	4,741 0 0	13,000 4 6 24,767 13 0	13,000 4 6 29,508 13 0	13,000 4 6 28,842 2 4	666 10 8	
	III. Drift and waifwood and confiscated Forest produce.		29 15 9	29 15 9	29 15 9		The outstanding under Vc. at the close of the year amounts t Rs. 13-10-9,
	Total	36,870 4 0	1,62,771 4 9	1,99,641 8 9	1,57,399 6 1	42,242 2 8	- ·
Jerruck	I. Timber and other produce removed from the Forests by Government Agency-				1 709 8 8		
	(b) Firewood and char- coal.	·	1,592 2 6	1,592 2 6	1,592 2 6 30 0 0	8 6 8 1 <del>6 8</del>	
	(e) Grass and other minor produce. IL Timber and other produce removed from the Forests by consum-		30 O O	30 0 0	,		1
	ers or purchasers- (a) Timber (b) Firewood and char- coal.	8,893 3 10 35,212 15 11	21,238 14 8 77,276 3 8	30,182 <b>2</b> 6 1,12,489 8 7	21,268 12 2 78,995 9 11	8,863 6 4 38,493 9 8	
~	(d) Grazing (c) Other minor pro- duce.	6,500 0 0	6,484 7 8 5,009 0 0	6,484 7 8 11,509 0 0	6,484 7 8 2,884 3 0	8,624 13 0	
	III. Drift and waifwood and confiscated Forest produce.		210	2 1 0	210		The outstanding under V-0. at the close of the war amounts to Re. Nil.
	Total	50,606 3 9	1,11,632 13 6	1,62,239 1 3	1,06,257 4 8	65,931 13 0	

Value of Sales and other Revenue during year. Balance due to the Department at end of year. Outstandings Amount realized during year. Division. Particulars, Total. Remarks. at commencement of year. 1 6 7 2 5 8 4 8 SIND CIRCLE-Rs. a. p. Rs. a. p. Rs. a. p. Rs. a. p. Rs. a. p. continued. Thar and Par- I. Timber and other kar. produce removed from the Forests by consumers or purchas-0**78** (a) Timber .... (b) Firewood and char-197 9 188 6 9 6 197 197 9 0 0 0 ..... 188 0 188 6 0 0 ..... \*\*\*\*\*\* coal. (d) Grazing and fodder 2,317 8 0 2,317 8 0 2,317 8 0 ..... ..... grass. (e) Other minor pro-The outstanding under V.-o. at close of the year amounts to Rs. Nil. 26 2 0 26 2 0 26 20 ..... \*\*\*\*\*\* duce. 2,729 9 0 Total ... 2,729 9 0 2.729 9 0 ..... ..... Total of Sind I. Timber and other Circle. produce removed from the Forests by Govern-1 ment Agency-(a) Timber 199 7 8 7,829 9 1 199 7 8 8,361 8 10 199 7 8 9,049 2 3 1,219 9 2 687 9 (b) Firewood and char-5 coal. (e) Grass and other 100 0 0 817 5 0 917 5 0 917 5 0 ..... minor produce. II. Timber and other produce removed from the Forests by consum-(a) Timber
(b) Firewood and char-32,406 12 1 97,151 18 1 90,470 15 6 1,22,877 11 7 87,910 11 9 34,966 15 10 2,52,374 0 10 3,49,525 13 11 2,46,735 11 3 1,02,790 2 8 coal. (d) Grazing and fodder 40,164 11 1 40,164 11 1 40,164 11 1 \*\*\*\*\* ..... grass. (e) Other minor pro-11,241 0 0 84,085 6 8 45,326 6 8 36,034 15 0 9,291 7 8 duce. III. Drift and waifwood ..... 147 7 9 147 7 9 147 7 9 The outstanding under V.-o. at the close of the year amounts to-Rs. 250-1-4. ..... and confiscated Forest produce. Total, Sind Circle ... 1,42,119 2 4 4,26,088 15 7 5,68,208 1 11 4,20,471 14 4 1,47,736 3 7 GRAND TOTAL ... 4,02,874 7 7 51,96,038 15 4 55,98,913 6 11 49,33,571 6 5 6,65,842 0 6

FORM No. 26.—Revenue received and Outstandings on account of Revenue during 1912-1913-concluded.

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		DEPARTMENT DES	STOR.	Dı	PARTMENT CREDITO	) <b>2.</b> .	BALANCE	<b>7</b> 0 <b>7</b>	
Division.	At com- meucement of year.	Recoveries in cash and value of sup- plies and work done during the year.	At close of year.	At commence- ment of year.	Payments made during year.	At close of year,	To Department (Outstandings).	By Depart- mont (Liabilities),	Romark
1	2	8		5	6	7	8	9	10
NORTHERN OIRCLE.	Bs. a. p.	Rs. a. p.	R5. 8. p.	Rs. a. p.	Rs. 2. p.	Rs. a. p.	Rs. a. p.	Rs. e. p.	-
Contractors.	•								}
North Thána		2,400 0 0	2,400 0 0		2,400 0 0	2,400 0 0			
Central Thána	<b>a</b> -•	_ 141-14		****	15 8 0	15 8 0	15 8 0		
Famine Fodder	•••	7,421 8 11	7,421 8 11	5,983 11 6	1,437 13 5	7,421 8 11			1
Total, Contractors	***	9,821 8 11	9,821 8 11	5,983 11 6	8,853 5 5	9,837 0 11	15 8 0		-)
Disbursers.	 		/		 	•			
		750 0 0	750 0 0		750 0 0	750 0 0	1054=5		
	184	189 15 8	189 15 8	177 10 9	12 4 11	189 15 8			ſ
- 	<b>b65</b>	45,824 7 3	45,824 7 3	621 6 7	45,927 4 9	46,548 11 4	724 4 1	1	1
•		81,838 9 6	81,838 9 6	3,542 8 1	83,225 15 1	86,768 7 2	4,929 18 8		
Surat	488	49,746 10 0	49,746 10 0	789 7 8	49,774 1 0	50,513 8 8	766 14 8	1	
North Tháns		1		1,253 10 8	52,397 1 8	53,650 12 4	732 15 10		
Central Thána	***	52,917 12 6	52,917 12 6			54,537 12 1	1,018 2 6		
South Théna		53,519 9 7	53,519 9 7	639 13 2	53,897 14 11				
Kolába	•••	69,217 1 5	69,217 1 5	1,054 2 9	69,103 14 7	70,158 1 4			
Famine Fodder		69,908 12 11	69,908 12 11	15,804 0 4	54,278 1 11	70,082 2 3			- `
Total, Disbursers	• • • •	4,23,912 14 10	4,23,912 14 10	23,832 12 0	-│	╺┝─────────	9,286 8 0		
Total, N. C	•••	<b>1,83,734</b> 7 9	4,33,734 7 9	29,816 7 6	4,13,220 0 8	4,43,036 7 9	9,302 0 0	· · · ·	_
CENTRAL CIRCLE.				-					
Contractors.	1								
Poona	***	++1546			*****	•••••		-40	
South Násik	• • •	800 0 0	800 0 0	· · · · · · ·	800 0 0	800 0 0		•••	
		2,197 0 0	2,197 0 0		2,197 0 0	2,197 0 0			
Sátára		500 0 0	500 0 0	e a - 540	500 0 0	500 0 0	414.700	•••	
South Násik Famine		51,283 8 0	51,283 8 0		51,283 8 0	51,283 8 0			1
Fodder. West Khándesh	•••	15,784 11 2	15,784 11 2	2,034 11 2	13,750 0 0	15,784 11 2			
Total, Contractors		70,565 3 2	70,565 3 2	2,034 11 2	68,530 8 0	70,565 3 2	/ 111100		
				<u></u>					
Disbursers.	,			1,313 9 11	54,727 14 0	56,041 7 11	770 3 8		}
Poona North Khándesh	•••	55,271 4 8 94,224 11 7	55,271 4 8 94,224 11 7	1,230 0 1 2,791 5 8	1,01,304 7 5 62,952 14 8	1,02,534 7 6 65,744 8 6	8,309 11 11 3,310 6 4		Ì
South Násik	14 <b>0</b> 140	62,433 13 2 62,034 12 5	62,438 18 2 62,034 12 5	-1,790 15 2	69,937 8 4 49,476 13 4	71,728 2 6 51,966 4 11	9,69 <b>8 6 1</b> 4,520 11 0	•••	1
North Násik East Khándesh	<b>***</b>	47,445 9 11 62,928 11 3	47,445 9 11 62,928 11 3	2,489 7 7 1,059 13 0	62,916 10 6	63,976 7 6 51,102 7 8	1,047 12 8 1,440 6 10		
Sátárs	•••	49,662 0 10 1,847 12 8	49,662 0 10 1,847 12 3	767 9 8 192 11 1	50,334 14 0 1,655 1 2	1,847 12 8	****** *****	***	ĺ
Circle.	100	10,839 12 3	10,839 12 8		11,034 15 10	11,034 15 10	695 8 7	+4+	
South Nasik Famine Fodder. West Rhandesh	•#*	1,828 4 6	1,328 4 6	1,322 4 6	100	1,323 4 6	<b>.</b>	•••	
Famine Fodder.				10.057 10 0	4,64,341 13 10	4,77,299 10 1	29,787 18 3	·	
Total, Disbursers			1,47,511 12 10		5,32,872 5 10		29,787 13 8	+++	
TOTAL, C. C.		5,18,077 0 0	5,18,077 0 0	14,892 7 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				l

# FORM No. 27.-Outstandings and Liabilities on account of Contractors and Disbursers for the Forest year 1912-1913.

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	{ - •	DEPARTMENT DEE	IOR.	E	BPARTMENT CREDIT	0B.	BALANCE	DUB :	ΓC.
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 (Ontstandings).	By Depart- ment (Liabilities).	Rema
1	2	8	4	5	6	. 7	8	9	 10
SOUTHERN CIRCLE.	Rs. a. p	. Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	1 2
Contractors.									
Working Plana	•			\$29·08 ·			# <sup>2</sup>		
Tánara, W. D.		36,891 8 9	36,891 8 9	9,890 9 7	47,521 11 4	57,412 4 11	20,520 12 2	•••	
anars, N. D.		43,252 15 3	43,252 15 3	46,230 14 2	51,280 0 0	97,460 14 2	54,207 14 11	•••	
lánara, S. D.		1,153 3 7	1,153 3 7	750 0 0	4,500 0 0	5,250 0 0	4,096 12 5		
		65,488 2 0	65,488 2 0	52,371 14 0	30,133 0 0	82,504 14 0	17,016,12 0	•••	
	.			r				•••	
·	4	***740	*****	••• <b>**</b> •	*****	******	*****	••• /	
tatnágiri Dhá <del>r</del> wár		344194	••••••		******	•••••	******		
	• •••	·····	******	01 77 7 0	07.650 0.0	1.70.007 7 0		•••	
Belgaum	•	80,714 7 2	80,714 7 2	21,715 1 2	97,650 0 0	1,19,365 1 2	38,650 10 0	•••	
Total, Contractors.	••••	2,27,500 4 9	2,27,590 4 9	1,30,958 6 11	2,31,034 11 4	3,61,993 2 3	1,34,492 13 6	•••	
					·				
Disbursers.									•
•	**	1,913 13 6	1,913 13 6	•••••	1,985 0 0	1,985 0 0	71 2 6	•••	
•	•••	64,198 5 6	64,198 5 6	11,386 8 9	56,866 5 6	68,252 14 3	4,054 8 9	•••	•
		96,519 1 0	96,519 <b>1</b> 0	12,902 1 4	(	1,06,911 13 10	10,392 12 10	•••	
	•••	47,748 8 5	47,748 3 5	2,333 6 10	48,067 0 0	50,400 6 10	2,652 3 5	` <b></b>	•
lánara, E. D	•• •••	49,659 15 3	49,659 15 3	4,700 12 6	49,002 8 3	53,703 4 9	4,043 5 6	···· › ·	
ijápur	•	16,526 0 8	16,526 0 8	276 14 11	16,631 8 1	16,908 7 0	382 6 4	•••	
atnágiri	•••	4,319 5 3	4,319 5 3	50 14 0	4,304 11 3	4,355 9 8	36 4 0	, •••	
)hárwar	•••	29,340 13 11	29,340 13 11	965 12 10	29,126 8 0	30,092 4 10	751 611		
elgaum	•	67,471 10 0	67,471 10 0	3,256 9 10	72,416 0 0	75,672 9 10	8,200 15 10	•••	
Total, Disbursers		3,77,697 4 6	3,77,697 4 6	35,873 1 0	3,72,409 5 7	4,08,282 6 7	80,585 2 1	•••	
TOTAL, S. C,	***	6,05,197 9 8	6,05,197 9 3	1,66,831 7 11	6,03,444 0 11	7,70,275 8 10	1,65,077 15 7	· ···	
, SIND CIRCLE.						·			
Contractors.							•		3
yderabad		20 0 0	2000		20 0 0	20 0 0			at.
		40 0 0	40 0 0		2,040 0 0	2,040 0 0	*****	•••	, C.Y.
n Izlema		20 0 0	•	******	2,010 0 0		2,000 0 0	•••	•
·			20 0 0		100 0 0	20 0 0	*****	•••	
Total, Contractors	- <u></u>			*****			******		
LUIM, CONTRCLOPS.	•	180 0 0	180 0 0	***	2,180 0 0	2,180 0 0	2,000 0 0	•••	
Disbursers.				) l			N N		
Tyderabad		23,674 2 4.	23,674 2 4	566 5 8	23,465 10 4	24,032 0. 0	357 13 8		
erruck Jaushahro		25,106 1 7 18,354 <b>1</b> 6	25,106 1 7 18,354 1 6	147 11 2 475 4 5	27,185 0 0 .18,235 9 4	27,332 11 2 18,710 13 9	2,226 9 7 856 12 3		
nkkur	1	45,805 15 8 157 8 0	45,805 15 8 157 8 0	378 11 3	45,876 5 9 157 8 0	46,255 1 0 157 8 0	449 1 4	•••	. <b>•</b>
Total, Disbursers			1,13,097 13 1			1,16,488 1 11	8,890 4 10	•••	<b>-</b> .
FOTAL, SIND CIRCLE		+	1,13,277 13 1		<u>_</u>	1,18,668 1 11			2
GBAND TOTAL .	·			1	16,66,636 8 5		5,890 4 10		
			· · · · · · · · · · · · · · · · · · ·		0 0 000 000 0	15 9 15 9	z,09,558 1 8		

FOBM No. 27.-Outstandings and Liabilities on account of Contractors and Disbursers for the Forest year 1912-1913-concla

Administration Reports.

Administration Report of the Forest Circles in the Bombay Presidency, including Sind, for the year 1912-13.

No. 4737.

### REVENUE DEPARTMENT.

Bombay Castle, 21st May 1914.

No. 2196, dated 22nd September 1913.	
Letters from the Deputy Conservator of Forests in charge Sind Circle, Nos, 1065 and 1002 dated	

1065 and 1092, dated Forwarding the Forest Administration Reports of their respective Circles for the year 1912-13.

Letter from the Conservator of Forests, C. C., No. 2216, dated 3rd October 1913.

25th and 30th September 1913.

- Letter from the Conservator of Forests, S. C., No. D.—82, dated 10th October 1913.
- Memorandum from the Commissioner, N. D., No. 3776, dated 26th September 1913— Submitting his remarks on the Forest Administration Report of the Northern Circle for the year 1912-13.

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Memorandum from the Commissioner, S. D., No. 3387, dated 14th October 1913-Submitting his remarks on the Forest Administration Report of the Northern Circle for the year 1912-13 so far as it concerns the Kolába Division.

- Memorandum from the Commissioner, C. D., No. 4280, dated 8th November 1913-Submitting his remarks on the Forest Administration Report of the Central Circle for the year 1012-13.
- Memorandum from the Commissioner, S. D., No. 3488, dated 20th October 1913-Submitting his remarks on the Forest Administration Report of the Southern Circle for the year 1912-13.

Memorandum from the Commissioner in Sind, No. 4043, dated 5th December 1913-Submitting his remarks on the Forest Administration Report of the Sind Circle for the year 1912-13.

- Government memorandum \* to the Conservator of Forests, N. C., No. 1636, dated 19th February 1914.
- Government memorandum \* to the Deputy Conservator of Forests in charge Sind Circle, No. 1637, dated 19th February 1914.

Letter \* from the Conservator of Forests, N. C., No. 3437, dated 21st February 1914.

Letter \* from the Deputy Conservator of Forests in charge Sind Circle, No. T.-127, dated 23rd February 1914.

RESOLUTION.—During the year 1912-13 the total forest area increased by 8 square miles and at the close of the year stood at 15,065 square miles, of which 14,022 were reserved and 1,043 square miles protected forest. The increase is due to additions to forest area in the Sátára, Dhárwár and Kánara Southern Divisions rendered possible by the relinquishment of assessed cultivable land in the immediate vicinity of forests and by 35 square miles of alluvial accretions in Sind, counterbalanced to some extent by the disforestment of 11 square miles in East Khándesh and the erosion of 31 square miles of forest in Sind. The total area includes 2,602 square miles which were under the management of Revenue officers; of this area 1,817 square miles were in the Central Division. It appears from the report that the transfers of land from forest proper to pasture in the Poona District sanctioned by Government in 1910 and 1911 have not yet been effected. The Commissioner, C. D., is requested to report, after consulting the Collector and Conservator, the reason why these transfers have been delayed, and to complete them as soon as possible. In the Presidency proper forest settlement is practically complete. In Sind 10 square miles awaited settlement at the beginning of the year, and 50 square miles were notified under section 4 of the Forest Act during the year: of this area only a small portion was settled. From

\* Not printed.

an examination of the detailed figures given in Form No. 8 it appears that the settlements of certain areas in the Ghotki Táluka of the Sukkur District, the Labdraya and Sehwan Tálukas of Nausháhro Division and the Kotri Táluka of Hyderabad Division have been pending for over two years. The Commissioner in Sind is requested to see that in these cases the outstanding proceedings are brought to a close as soon as possible and that in future delay in the completion of settlements is avoided. As regards the demarcation of forest boundaries a length of 443 miles was marked out during the year; a length of 1,817 miles still remains to be done, of which more than half is in the South Násik Division. Work in this division and in the Southern Circle is stated to have been hindered owing to a lack of surveyors; it is hoped that the recent orders improving the conditions of surveyors' service will facilitate recruitment and render speedier progress possible.

2. During the year one Working Plan in the Northern Circle, two in the Central Circle, and five in the Southern Circle were under preparation, while three plans, namely, the Igatpuri Teak and Fuel Plan, the Ankola-Kumta Coast Fuel Plan, and the Soppinhosalli High Forest Plan received the approval of Government. Government notice with interest that two plans in the Kánara Northern Division were recommended for revision owing to the change in condition due to improved fire protection; it is reported that in consequence of this the yield has increased six times. The Conservator, C. C., again lays stress on the urgent need for revising the working plans in some of his divisions, more particularly parts of North and East Khandesh, and Poona, where the plans now in use are unsuited to the conditions of the present day and urges the necessity of appointing a trained officer to the Working Plans Division. The Senior Conservator when submitting to Government recommendations reporting the posting of Forest Officers should bear this point in mind. The prescriptions of the Working Plans were adhered to with a fair degree of success in the Northern and Southern Circles; but in the Central Circle dearth of labour and scarcity of fodder and water necessitated numerous deviations. The road trains which were purchased during the year for use in the Northern and Southern Circles appear to have been disappointing; the cost of working was heavier than was expected, and the weight of the train proved too great for the ordinary Indian road. The question of providing other mechanical means of conveying timber from the forest to the railway in Kánara is receiving consideration.

3. The total expenditure on new works, roads and buildings amounted to Rs. 94,276, a much larger sum than in the previous year, when it amounted to Rs. 41,121 only. The expenditure on repairs, Rs. 53,176, was also larger than in 1911-12, when it was only Rs. 40,913. The works were mainly of a minor nature, the most noticeable perhaps being the extension of the Vang Valley and Koina Valley Roads in the Sátára Division which, when completed, will open up a large area of valuable forest on the Western Gháts. With regard to the construction of the Charnmal-Borzár section of the Pimpalner-Navápur road, the Collector of West Khándesh should consider in consultation with the Superintending Engineer, C. D., whether the work should be taken up by the Public Works Department as a provincial civil work. The Khándesh Nizám Frontier road is in course of extension to Pimpalner and a further extension to the railway at Navápur might be advisable.

4. The number of offences reported during the year was 19,955, a decrease of exactly 2,000 from the total of 1911-12 (21,955). Taking the Presidency proper by itself, there was an increase, the total for the year being 18,994 compared with 19,789 for 1911-12. The chief cause of the rise was shortage of rains in the Central Circle and the resulting scarcity of fodder, which led to a good deal of trespassing in closed forest in Sátára and North Násik and to illicit cutting of anjan trees in Khándesh. Added to this the steps taken to check the abuse of the dead-wood privilege in the Mahábaleshwar and Jávli ranges of the Sátára Division and the more efficient administration in Poona increased the number of cases of unauthorized fellings. Cases of injury to forest by fire once more show a gratifying decline, the total being 1,243, or not much more than half the number reported in 1910-11. Crime of a serious nature was as a rule absent; but there was a serious case discovered in Sangamner and Akola, in which the villagers had combined to commit systematic thefts of timber

and terrorize informants. It was found necessary in this case to station additional police in the villages concerned at the villagers' cost. In his report for 1911-12 the Conservator, N. C., expressed the opinion that communal punishment had been far too little used in coping with bad fire protection and other forest offences and that a wider recourse to this form of punishment would yield satisfactory results. In his report for the current year he has furnished a list of villages in which the prevalence of forest crime has led to a suspension of privileges for periods of varying lengths, while at the same time in those cases where forest protection has been good, the villagers have been rewarded by the full or partial remission of grazing fees. The policy followed by the Conservator, which, it is noted, was also applied with great success in Belgaum, has the full approval of Government and they consider that it should be adopted generally. In the Sind Circle the total number of offences reported was 961, the corresponding total for 1911-12 being 4,166; the main cause of this very large decrease being the omission by the Deputy Conservator from his register of 2,533 cases in which owners of cattle were found grazing in open or closed forest without a pass, and allowed to go on payment of the grazing and pound fees. In adopting this procedure the Deputy Conservator does not appear to be wholly correct and separate instructions will be issued on the point. Apart from cases of illicit grazing, offences in Sind showed a gratifying decline, particularly those of injuring forest by fire.

The results of the year as regards fire protection were extremely favourable. Except in two districts, the Panch Mahals and Sátára, both the number of fires and the area burnt were very much smaller than in 1911-12, the figures for which year again were a great improvement on those of 1910-11. In the Northern Circle the system of rewarding the villagers in cash for good fire protection continued to work well in Bassein; and it is being extended experimentally to other villages in the Thána District. In the Central Circle the figures are very striking indeed, the area burnt in the three Khandesh Divisions amounting to 35,119 acres only, or little more than one-tenth of that burnt in 1908-09. This favourable result was no doubt due in some measure to the peculiar circumstances of the year, to the scanty supply of grass, and to the fact that large quantities were cut and removed; but making every allowance for this there is good reason to believe that the improvement secured during the past four years will prove to be permanent. The success which has attended the efforts of Forest officers in these divisions to ensure protection from fire and secure the co-operation and assistance of the people is, in the opinion of Government, deserving of high praise. In the Southern Circle, the system of communal punishment and reward continued to be extensively applied, 243 villages being rewarded for good protection by concession in the matter of grazing fees, while 200 were punished by the reduction of privileges for indifference in this respect. Taking the circle as a whole the results are extremely good, the area burnt being roughly two-fifths of that burnt in 1911-12. A complaint is made by the Conservator that the sentences imposed in the cases detected were in every case inadequate, and judging from the figures given by the Conservator his complaint seems to be not without justification. Where circumstances justify it, the Conservator should consider the desirability of moving Government to file an application for enhance-ment of punishment. In the Sind Circle a good inundation coupled with the fact that there was a good supply of grass outside the forest reduced the number of cattle resorting to the forests for grazing, and there were far fewer fires started with the object of keeping down the coarse grass. The good results secured in the clearance of fire tracts and the maintenance of patrols are satisfactory.

6. The number of cattle impounded increased from 1,38,496 to 1,58,988. In the Northern Circle there was a decline due essentially to the adoption of a lenient policy in the Panch Maháls after the famine. Sind owing to causes already mentioned, viz., a good inundation and the existence of abundant grass outside the forest, showed a decrease of 3,645 or 20 per cent.; while in the Southern Circle, though the total is a little larger than in 1912-13, the figures may be considered to be satisfactory. The Circle which was almost entirely responsible for the increase was the Central where the total rose from 76,682 to 1,02,269 or by 33 per cent. After the decrease which has been so marked during the past three years, the results now reported are at first sight disappointing. So much has been done since 1910, in the transfer of large areas from forest proper to pasture forest, in the reduction of grazing fees and in endeavouring to meet the requirements of the people in the matter of grazing wherever this is possible,. that it had been hoped that the reduction in the number of impoundings would be permanent. A closer examination, however, of the figures supplied by the Conservator as well as of the circumstances of the year shows that there is littlereal reason for despondency. In the first place the number of browsers (goatsand sheep) impounded amounted to no less than 55,412 or 58 per cent. of the whole. This total is 7,153 in excess of that for the previous year. As it is now the accepted policy of Government that these animals are not to be allowed in the forest proper but should graze in the very large areas of pasture forest made available for them, it is difficult to avoid the conclusion suggested by the Conservator that this trespass was in great measure deliberate. Secondly, it is impossible to ignore the fact that the circumstances of the year were peculiar. The rains were very late in coming, the supply of grass outside the forest proper was short for the second year in succession, and the people were to some extent demoralized by the concessions of the previous year. If these facts are borne in mind, the increase in bovines impounded—18,107—is not larger than might have been expected. With regard to the grazing of goats and sheep it is noted that the impoundings were particularly large in North Násik and Sátára. The Conservator is requested to consider whether the time has not come to raise the fees for goats and sheep in these divisions and whether it would not be possible to enlist the co-operation of the villagers in keeping down trespass. The amount of grazing available is strictly limited, and it is obviously to the interest of thecultivators to secure it as far as possible for their own cattle and not allow theprofessional graziers who own most of the goats and sheep to take it from them.

7. The forests provided grazing for 15,22,686 bovines, 2,12,428 sheep and goats, 921 camels, 4,562 other animals on payment of fees amounting to Rs. 3,10,836 and to 4,62,856 bovines, 2,204 goats and sheep, 698 camels and 5,178 other animals free of charge. The value of the grazing supplied is calculated to have been Rs. 18,69,955 at full rate.

Natural reproduction is stated to have been good in the Southern Circle 8. and in Sind, but reports from the Northern and Central Circles were less favourable, shortness of rainfall and excessive grazing having damaged the seedlings. On the other hand, reproduction by coppice shoots is stated to have been good. The experience of the year in the Northern Circle shows that teak seedlings need light to stimulate their growth and the Conservator consequently has formed the opinion that the future of the Dángs teak forest largely depends on the opening up of the canopy by the removal of species other than teak; he contends that these species properly treated would make excellent railway sleepers and urges that the Companies should make experiment in this direction. In the Central Division reproduction is stated to have been stimulated by the improved arrangements for fire protection. Artificial reproduction was carried on in all Circles on the usual lines. Government note with satisfaction that negotiations are in progress for the acquisition of land for nine new casuarina plantations. in the Thána District with the object of supplying wood at cheap rates to the seaside towns. In the Central Circle the experiments in agriculture-cum-forestry were continued, but the results were disappointing; in Khandesh, in particular, the Bhil has not taken as kindly to the system as was hoped. In the Southern Circle considerable additions were made to the casuarina plantations which are reported to be doing well. The experimental rubber plantations which are received a good deal of attention. Trees of the Ficus elastica variety are reported to be healthy and some of the Ceara and Para variety will be shortly tapped. But it is feared that the heaviness of the rainfall coupled with the comparatively short duration of the rainy season is not suited to the growth of the rubber plant. Experiments with lác were continued in both East and West Khandesh. Lac of excellent quality was secured and it was shown that it is possible to infect fresh trees artificially and so increase the supply; but the risk of damage from the ravages of black ants is great and so far the measures taken to counteract them have failed. Experiments in Sind on the same lines were less. successful than in the Presidency, owing, it is thought, to an exceptionally hot Further trials, however, will be made both in this Province and in. year. Khándesh.

The gross revenue received amounted to Rs. 49,67,694, an advance of Rs. 4,74,363 over the total of 1911-12; the totals on the expenditure side for the two years were Rs. 26,24,741 and Rs. 28,91,465. These figures, however, include items on both sides of the account due to famine fodder operations; on the revenue side of the account for 1912-13 Rs. 3,92,439 and on the expenditure side Rs. 2,35,700, as compared with Rs. 3,85,668 and Rs. 5,10,788 for 1911-12. Excluding these figures the receipts amounted to Rs. 45,75,255, as compared with Rs. 41,07,663 for the previous year, while the charges come to Rs. 23,89,041 as against Rs. 23,80,677, the surplus being Rs. 21,86,214 or Rs. 4,59,227 in excess of last year. In the Northern Circle notwithstanding a rise of half a lakh on the expenditure side due mainly to the purchase of  $\bar{a}$ road train and saw-mill plant in Surat, the surplus rose from Rs. 6,58,909 to Rs. 7,96,332, better prices being realised for both timber and charcoal. In the Southern Circle the improvement in the surplus was even more marked, the figures for the two years 1911-12 and 1912-13 being Rs. 5,26,409 and Rs. 8,97,649. Here as in the Northern Circle the prices obtained for produce ruled very high. In the Central Circle the results of the year were not so favourable and the net surplus declined by no less than Rs. 85,233; in two divisions, North Khandesh and South Násik, the fall was Rs. 55,361 and Rs. 61,562, respectively. Taking the circle as a whole, the outstanding cause of the decline in receipts was the complete failure of the mhowra seed crop which yielded only Rs. 12,000 compared with Rs. 73,000 in 1911-12. It is satisfactory to notice that of the three divisions which in 1911-12 worked at a loss, two, Kolába and the Panch Maháls, showed a profit during 1912-13; while in the third, Sátára, the deficit was reduced from Rs. 17,131 to Rs. 3,898. In the last mentioned district, the policy of improving communications and thereby opening up forests, considered hitherto unworkable, has yielded good results and it is hoped that, if it is persisted in, the deficit will disappear. The Sind Circle showed a satisfactory increase of Rs. 35,498 in the net surplus owing to high prices. The reports of the year show that the administration of the Department has been maintained at a high level of efficiency. The acknowledgments of Government are due to the Conservators and the Deputy Conservator of Circles and the staff subordinate to them for the zeal and devotion which they have displayed in the discharge of their duties.

#### C. W. A. TURNER,

#### Under Secretary to Government.

Τo

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, The Commissioner in Sind, The Commissioner, N. D., The Commissioner, C. D., The Commissioner, S. D., All Collectors, including the Collectors in Sind and the Deputy Commissioner, Upper Sind Frontier, With copies of The Accountant General, the Report. The Director of Agriculture and of Co-operative Societies, The Settlement Commissioner and Director of Land Records, The Public Works Department of the Secretariat, The Oriental Translator to Government, The Editors' Tables and Editors of Newspapers, The Non-official Members of the Legislative Council, The Government of India, The Under Secretary of State for India. By letter. A Rev 1094-2

No. of 1914.

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