



Annual
Forest Administration Report
of the Bombay Presidency
including Sind, 1935-36

Part II

Appendices

BOMBAY

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Appendices

ANNUAL FORM NO. 51 (PART I).—*Area of Reserved*

Division.	Civil District or Territory, subordinate to the District, to be given for each District.	Kind of Forest.	Area on 1st April 1905.	
			Acres.	Equivalent in Square Miles.
1	2	3	4	5
NORTHERN CIRCLE.				
Punch Mahals	Broach and Punch Mahals	Reserved	295,343	321
		Protected	.....	.....
North Thana ...	Thana ...	Reserved	221,636	345
	Thana ...	Protected	197	1
East Thana ...	Thana ...	Reserved	211,541	331
	Thana ...	Protected	.....	.....
	Nasik ...	Reserved	53,621	81
West Thana ...	Nasik ...	Protected	.....	.....
	Thana ...	Reserved	215,635	336
East Nasik ...	Thana ...	Protected	7,793	12
	Nasik ...	Reserved	481,263	752
West Nasik ...	Nasik ...	Protected	3,556	5
	Nasik ...	Reserved	185,540	284
	Nasik ...	Protected	76,030	88
	Thana ...	Reserved	18,996	30
	Thana ...	Protected	2,541	4
	Total, Northern Circle.	Reserved	1,596,963	2,484
		Protected	76,517	111
GENERAL CIRCLE.				
East Khandesh	East Khandesh	Reserved Forest	487,137	761
	Do.	Protected Forest	.....	.....
North Khandesh	West Khandesh	Reserved Forest	555,567	884
	Do.	Protected Forest	.....	.....
West Khandesh	Do.	Reserved Forest	395,577	620
	Do.	Protected Forest	.....	.....
	Surat	Reserved Forest	55,532	70
	Do.	Protected Forest	.....	.....

ANNUAL FORM No. 51 (PART I).—Area of Reserved and

Division.	Civil District or Territory (separate figures should be given for each District).	Kind of Forest.	Area on 1st April 1935.	
			Acres.	Equivalent in square miles.
1	2	3	4	5
CENTRAL CIRCLE —contd.				
Poonā	Poonā	Reserved Forest	236,072	369
	Do.	Protected Forest	.....	.....
	Ahmednagar	Reserved Forest	125,534*	196
	Do.	Protected Forest	7,133*	11
Kolāba	Kolāba	Reserved Forest	279,275	436
	Do.	Protected Forest	22,556	35
	Poonā	Reserved Forest	6,529	10
Sātara	Ratnagiri	Reserved Forest	2,269	4
	Sātara	Reserved Forest	329,172†	515
	Do.	Protected Forest	657	1
Total, Central Circle		Reserved Forest	2,478,984	3,874
		Protected Forest	30,352	47
SOUTHERN CIRCLE.				
Kanara, N. D.	Kanara	Reserved	574,314	897
Kanara, E. D.	Do.	Reserved	681,698	1,065
Kanara, W. D.	Kanara	Reserved	674,965	1,055
	Do.	Protected	2,366	4
Belgaum	Belgaum	Reserved	446,663	698
	Do.	Protected	12	.....
Dharwar-Bijapur	Dharwar	Reserved	159,274	249
	Bijapur	Reserved	155,350	242
Total, Southern Circle.		Reserved	2,692,203	4,206
		Protected	2,378	4

* Includes an area of 1,105 acres submerged into the Bhandardara lake and of 183 acres dated 2nd

† Includes an area of 12,936 acres

Protected Forests in charge of Forest Department, 1935-36—contd.

Added during the year.		Excluded or transferred to other heads.	Area on 31st March 1936.		Tripartite classification.			Remarks.
Acres.	Acres.	Acres.	Equivalent in square miles.	Forest proper.	Pasture reserves.	Fuel and fodder reserves.		
6	7	8	9	10	11	12	13	
				Sq. M.	Sq. M.	Sq. M.		
6	18	235,060	369	350	19	.....	
.....		
9	15	125,459*	196	196	.....	.....
(b) 69	(b) 69	7,208*	11	11	.....	.....
.....	33	279,252	436	417	15	4		
.....	5	22,551	35	35	.....	.....
.....	.....	6,529	10	10	.....	.....
.....	2	2,257	4	4	.....	.....
.....	.....	329,172†	514	514	.....	.....
.....	.....	657	1	1	.....	.....
15	89	2,478,841	3,873	3,704	34	135		
(b) 69	(b) 69 5	30,416	47	47	.....	.....
(c) 242 (d) 758	110 (d) 403	574,801	893	898	.....	.....
(d) 36	(e) 37 65	681,612	1,065	787	278	.....	
.....	84	674,871	1,055	747	308	.....	
.....	.....	2,366	4	.....	4	.....	
99	71	446,621	698	648	50	.....	
.....	.....	12	.....	.....	.....	.....
19	.....	159,293	249	241	.....	8	
.....	8	155,351	242	201	38	3		
118	358	2,692,559	4,207	3,522	674	11		
(c) 242 (d) 794	(d) 403 (e) 37	.....	.....	.....	.....	.....
.....	.....	2,378	4	.....	4	.....	

used for roads which has been transferred to the P. W. D., vide Commissioner, C. D.'s No. F.O.R. 0/1, September 1934.

of leased forest,

FORM No. 51 (PART I).—Area of Reserved and Protected

Division	Civil District or Territory (separate figures should be given for each district)	Kind of Forest	Area on 1st April 1935	
			Acres	Equivalent in square miles
1	2	3	4	5
SIND CIRCLE.				
Sukkur ...	Sukkur ...	Reserved ...	155,241	243
		Protected ...	9,710	15
	Upper Sind Frontier	Reserved ...	12,754	20
		Protected ...	2,080	3
Shikarpur ...	Sukkur ...	Reserved ...	115,898	181
		Protected ...	11,350	18
	Upper Sind Frontier	Reserved ...	35,811	56
		Protected ...	1,850	3
Larkana ...	Larkana ...	Reserved ...	42,482	66
		Protected ...	.....	.....
	Dadu ...	Reserved ...	20,278	32
		Protected ...	.....	.....
Hyderabad ...	Nawabshah ...	Reserved ...	50,134	78
		Protected ...	248	.....
	Hyderabad ...	Reserved ...	58,986	92
		Protected ...	4,806	8
Dadu ...	Nawabshah ...	Reserved ...	45,245	71
		Protected ...	4,653	7
	Dadu ...	Reserved ...	31,122	48
		Protected ...	2,300	4

Forests in charge of Forest Department, 1935-36—contd.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1936		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and Fodder reserves	
6	7	8	9	10	11	12	13
+240	-315 (b) 220	154,916	242	Sq. M. 242	Sq. M.	Sq. M.	
(b) 220	-230	9,700	15	15	.....	.....
+1,654	.....	14,408	23	23	.....	.....
.....	-200	1,880	3	3	.....	.....
+1,380	(b) 1,380 -445	115,453	180	180	.....	.....
(b) 1,380	-375							12,355	19	19	.....	.....
.....	(b) 210 -421	35,180	55	55	.....	.....
(b) 210	.....	2,060	3	3	.....	.....
.....	-182	42,300	66	66	.....	.....
.....	
.....	.....	20,278	32	32	.....	.....
.....	
+3,230	-967	52,497	82	82	.....	.....
.....	.....	248	.....	.....	.....	.....
+4,750	-191 (b) 5,357	61,188	96	96	.....	.....
(b) 5,357	-100	10,163	16	16	.....	.....
+2,472	-180	47,537	74	74	.....	.....
.....	.....	4,653	7	7	.....	.....
+4,294	-21 (b) 1,177	34,218	53	53	.....	.....
(b) 1,177	.....	3,477	6	6	.....	.....

FORM No. 51 (PARTS I AND II).—Area of Reserved and Protected

Division	Civil District or Territory (separate figures should be given for each district)	Kind of Forest	Area on 1st April 1935		
			Acres	Equivalent in square miles	
1	2	3	4	5	
SIND CIRCLE—contd.					
Karachi ...	Hyderabad ...	Reserved ...	9,753	15	
		Protected ...	3,267	5	
	Karachi ...	Reserved ...	115,100	180	
		Protected ...	13,013	21	
	Total, Sind Circle		Reserved ...	692,504	1,082
			Protected ...	53,367	84
Grand Total, Presidency.		Reserved ...	7,460,060	11,655	
		Protected ...	156,614	245	
PART II.					
NORTHERN CIRCLE.					
Panch Mahals ...	Broach and Panch Mahals	Reserved ...	2,384	4	
		Protected ...	.....	.....
North Thana ...	Thana ...	Reserved ...	.....	.....
		Protected ...	91,900	144	
East Thana ...	Do. ...	Reserved ...	.....	.....
		Protected ...	67,236	105	
	Nasik ...	Reserved ...	273		
		Protected ...	.....	

Forests in charge of Forest and Revenue Departments 1935-36—concl'd.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1936		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
+50	-910	8,893	14	Sq. M. 14	.....	.....
.....	.....	3,367	5	5	.....	.....
+2,470	-523 (b) 130	116,917	183	183	.....	.....
(b) 130	.....	13,143	21	21	.....	.....
+23,640	-4,185 (b) 8,474	703,785	1,100	1,100	.....	.....
(b) 8,474	-905	60,935	95	95	.....	.....
336 (a) 42,215 (c) 242 (d) 794 +23,640	493 (a) 42,215 (b) 8,543 (d) 403 (e) 37 -4,185	7,471,365	11,674	10,815	708	151	
(b) 8,543	5 -905	164,217	257	253	4	.....
.....	.....	3,384	4	.....	4	.....
.....	
.....	
.....	367	91,633	143	.....	143	.....
.....	
(a) 4,447	(b) 2	71,733	112	.....	112	.....
52	.....	273	.....	.....	.....	.....
.....	

- (a) Transfer from one Division to another due to territorial changes sanctioned in Government Resolution, Revenue Department, No. 3133/33, dated 13th November 1934.
 (b) Transfer from Reserved to Protected Forest.
 (c) Protected Forest in charge of Revenue Department converted into Reserved Forest and transferred to the management of the Forest Department.
 (d) Errors corrected.
 (e) Reserved Forest in charge of Forest Department converted into Protected Forest and transferred to the Management of the Revenue Department.
 (f) Gained by accretion.
 (g) Lost by erosion.

FORM No. 51 (PART II).—Area of Reserved and

Division 1	Civil district or territory (separate figures should be given for each district) 2	Kind of forest 3	Area on 1st April 1935	
			Acres 4	Equivalent in square miles 5
NORTHERN CIRCLE <i>—contd.</i>				
West Thana	Thana	Reserved	.....	.....
	Do.	Protected	77,500	121
East Nasik	Nasik	Reserved	28,145	44
	Do.	Protected	.....	.....
	Nagar	Reserved	8,234	13
	Do.	Protected	.....	.....
West Nasik	Nasik	Reserved	3,580	6
	Do.	Protected	.....	.....
Ahmedabad	Thana	Reserved	.....	.....
	Do.	Protected	4,447	7
Ahmedabad	Ahmedabad	Reserved	9,753	15
	Do.	Protected	.....	.....
Total, Northern Circle		Reserved	52,379	82
		Protected	2,41,173	377
CENTRAL CIRCLE.				
East Khandesh	East Khandesh	Reserved	23,919	38
West Khandesh	West Khandesh	Reserved	81,064	127
	Surat	Do.	8,103	13
Poona	Poona	Do.	1,69,768	265
	Ahmednagar	Do.	64,415	101
Kolaba	Kolaba	Do.	8,488	13
	Do.	Protected	24,563	38
Satara	Satara	Reserved	119,184	186
Ahmednagar and Sholapur.	Ahmednagar and Sholapur.	Do.	413,549	646
Total, Central Circle		Reserved	859,110	1,389
		Protected	24,563	38

Protected Forests in charge of Revenue Department, 1935-36—contd.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1936		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
				Sq. M.	Sq. M.	Sq. M.	
.....	
.....	201	77,289	121	.....	121	.....
.....	(1) 4,509	22,636	37	.....	37	.....
.....	
.....	.....	8,264	13	.....	13	.....
.....	
(a) 4,509	.....	8,089	13	.....	11	2	
.....	
.....	
.....	(a) 4,447	.....	.....	.....	.....	.....
.....	.....	9,753	15	.....	.....	15	
.....	
(a) 4,509	(a) 4,509	52,399	82	.....	65	17	
52	563	2,40,655	376	.....	376	.....
(a) 4,447	(a) 4,447 (b) 2	.....	.....	.....	.....	.....
.....	.....	23,919	37	.....	37	.....
.....	200	51,461	127	.....	127	.....
.....	.....	8,103	13	.....	13	.....
.....	4,254	165,534	259	.....	259	.....
.....	.....	64,415	101	.....	101	.....
.....	.....	8,488	13	.....	13	.....
.....	7	24,575	38	.....	38	.....
.....	62	119,103	189	.....	182	4	
13	1,423	412,133	644	.....	644	.....
13	5,965	588,156	1,350	.....	1,376	4	
.....	7	24,575	38	.....	36	.....

FORM No. 51 (PART II).—*Area of Reserved and*

Division	Civil district or territory (separate figures should be given for each district)	Kind of forest	Area on 1st April 1936	
			Acres	Equivalent in square miles
1	2	3	4	5
SOUTHERN CIRCLE.				
Kanara, N. D. ...	... Kanara ...	... Protected ...	7,298	11
Kanara, E. D. ...	... Do. ...	... Do. ...	115,853	181
Kanara, W. D. ...	... { Do. ...	... Reserved ...	6,565	10
		... Protected ...	8,217	13
Belgaum ...	... Belgaum ...	... Reserved ...	985	2
Dharwar-Bijapur ...	... { Dharwar ...	... Do. ...	78,672	123
		... Bijapur ...	18,537	29
Ratnagiri ...	... Ratnagiri ...	... Do. ...	11,752	18
Total, Southern Circle ...		{ Reserved ...	116,511	182
		{ Protected ...	131,368	206
SIND CIRCLE.				
Karachi ...	... Karachi ...	... Reserved ...	24	.....
Total, Sind Circle ...		Reserved ...	24	.....
Grand Total, Presidency		{ Reserved ...	1,058,044	1,653
		{ Protected ...	397,124	620

Protected Forests in charge of Revenue Department, 1935-36—concl'd.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1936		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and Fodder reserves	
6	7	8	9	10	11	12	13
.....	(c) 242	7,056	11	Sq. M.	11	.....
(d) 37	3	115,887	181	.....	181	.....
.....	.....	6,565	10	.....	10	.....
.....	.....	8,217	13	.....	13	.....
.....	.....	985	2	.....	2	.....
.....	61	78,611	123	.....	123	.....
.....	26	18,511	29	.....	29	.....
.....	2	11,750	18	13	.....	5	
.....	89	116,422	182	13	164	5	
(d) 37	3 (c) 242	131,160	205	.....	205	.....
.....	.....	24	.....	.....	.....	.....
.....	.....	24	.....	.....	.....	.....
13 (a) 4,509	6,054 (a) 4,509	1,052,003	1,644	13	1,606	25	
52 (a) 4,447 (d) 37	578 (a) 4,447 (b) 2 (c) 242	396,391	619	.....	619	.....

(a) Transfer from one Division to another due to territorial changes sanctioned in Government Resolution, Revenue Department, No. 3199/33, dated 13th November 1934.

(b) Rectification by resurvey.

(c) Protected Forest in charge of Revenue Department converted into Reserved Forest and transferred to the management of the Forest Department.

(d) Reserved Forest in charge of Forest Department converted into Protected Forest and transferred to the management of the Revenue Department.

FORM No. 52.—*Progress made in Forest*

Forest Division	Civil District or Territory	Name of Forest	Area in Square Miles		
			Finally settled during year	In hand at commencement of year	Taken in hand during year
1	2	3	4	5	6
Northern Circle	Panch Mahala Thana and Nsik.	Reserved Forests	163	409	69
			640	640	640
	Thana	Protected Forest	52	.....	52
			640		640
		Total, Northern Circle	215 640	409 640	121 640
Central Circle	Surat, Poona, Ahmednagar, Satara and Kolaba.	Reserved Forest	28 640	479 640	79 640
Southern Circle	Kanara	Reserved	.....	.....	5 640
	Belgaum	Do.	99 640	99 640	214 640
	Bijapur	Do.	.....	7 640	95 640
	Dharwar	Do.	19 640	19 640	87 640
			Total, Southern Circle	118 640	125 640	411 640
Sind Circle	Sukkur Upper Sind Frontier, Dadu, Nawabshah and Hyderabad.	Reserved Forest	.....	501 640	400 640
	Sukkur, Upper Sind Frontier, Nawabshah, Dadu, Hyderabad and Karachi.	Protected Forest	13 640	.....	13 640
			Total, Sind Circle	13 640	501 640	554 640
		Grand Total, Presidency	13 640	324 640	525 640

Settlements during the year 1935-36

Cost during year		Entire cost per square mile of areas finally settled	Remarks.
In Forest Accounts	In other Accounts		
7	8	9	10
Rs.	Bs.	Rs.	
.....	
.....	
.....	
.....	
.....	
115	
.....	
.....	
.....	
.....	
115	
.....	
.....	
.....	
.....	
.....	
115	

FORM No. 53.—Record of Demarcation

Circle	Length of boundaries artificially demarcated during the year	Length of previously existing boundaries repaired	Length of previously existing boundaries not repaired	Total length of artificially marked boundaries at the close of the year	Length of boundaries still to be demarcated at the close of the year	Length of natural boundaries not requiring artificial marks
1	2	3	4	5	6	7
	Miles	Miles	Miles	Miles	Miles	Miles
Northern Circle ...	8	7,842*	129	7,973	3	640
Central Circle ...	5	13,816	.....	13,821	.....	839
Southern Circle ...	4	1,473	12,752	14,220	38	457
Sind Circle ...	10	2,137	.....	2,147	.....	672
Grand Total, Presidency ...	27	25,268	12,881	38,176	41	2,628

and Maintenance of Boundaries, 1935-36

Total length of boundaries at the close of the year	Expenditure on Demarcation during the year		Remarks
	On new work	On repairs	
8	9	10	11
Miles	Rs.	Rs.	*Owing to afforestation the length of existing boundary was reduced by 4 miles in the East Thana Division.
8,622	152	1,529	
14,680	291	674	
14,724	.....	1,618
3,819	.....	.....
40,846	443	3,821	

FORM No. 54.—Statement showing Forest Areas
Department during

Circle	Topographical Surveys					
	Special Surveys paid for by Forest Department					
	Previous		Of the year		Cost	
	4"=1 mile	8"=1 mile	4"=1 mile	8"=1 mile	Incurred during year	Total to the end of year
1	2	3	4	5	6	7
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	Rs.
<i>Reserved Forests</i>						
Northern Circle	2,43,083
<i>Protected Forests</i>						
Northern Circle	24,416
Total, Northern Circle	2,67,499
<i>Reserved Forests</i>						
Central Circle	3,56,796
<i>Protected Forests</i>						
Central Circle	7,085
Total, Central Circle	3,63,881
<i>Reserved Forests</i>						
Southern Circle	4,63,184
<i>Protected Forests</i>						
Southern Circle
Total, Southern Circle	4,63,184
<i>Reserved Forests</i>						
Sind Circle
<i>Protected Forests</i>						
Sind Circle
Total Sind Circle
Grand Total, Presidency	10,54,564

*Surveyed and under survey by the Survey of India
the year 1935-36*

Ordinary Surveys not paid for by Forest Department				Boundary Surveys		Total area surveyed	Area remain- ing to be surveyed	Total area as per Forms Nos. 51 Paris I & II.	Remarks
Previous		Of the year		Pre- vious	Of the year				
2"=1 mile	Smaller scales	2"=1 mile	Smaller scales						
5	9	10	11	12	13	14	15	16	17
Sq. m.	Sq. m.	Sq. m.	Sq. m.	L. m.	L. m.	Sq. m.	Sq. m.	Sq. m.	
...	...	...	...	...	...	2,576	...	2,576	
...	...	...	...	...	...	474	13	467	
...	...	...	...	...	...	3,050	13	3,063	
...	...	...	...	...	...	5,253	...	5,253	
...	...	...	...	...	...	85	...	85	
...	...	...	...	...	...	5,338	...	5,338	
...	...	...	...	...	...	4,113	276	4,389	
...	...	...	...	...	...	209	...	209	
...	...	...	...	...	...	4,322	276	4,598	
...	209	...	...	...	...	209	891	1,100	
...	19	...	...	...	...	19	76	95	
...	228	...	...	...	...	228	967	1,195	
...	228	...	...	...	...	12,938	1,256	14,194	

FORM No. 55.—Progress made in Working

Division	Area under sanctioned Working Plans					Area Work
	At commencement of year	Added during year	Deducted during year	At close of year		Plans under preparation
				Actual area	Percentage of total forest area (as shown in column 10)	
1	2	3	4	5	6	7
NORTHERN CIRCLE	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Per cent.	Sq. m.
<i>Reserved Forests in charge of Forest Department.</i>						
Panch Mahals	317	...	...	317	99	4
North Thana	346	...	...	346	100	...
East Thana	412	16 (a)	...	431	100	...
West Thana	384	2	...	386	100	...
East Nasik	581	...	6 (a)	575	82	127
West Nasik	324	6 (a)	16 (a)	314	88	44
Total ...	2,314	27	22	2,319	93	175
<i>Protected Forests in charge of Forest Department.</i>						
North Thana	1	...	...	1	100	...
West Thana	9	...	...	9	75	...
East Nasik ... ..	...	...	...	...	...	...
West Nasik	92	...	...	92	100	...
Total ...	102	...	...	102	92	...
<i>Protected Forests in charge of Revenue Department.</i>						
North Thana ... ..	...	...	...	...	...	143
East Thana ... ..	...	...	...	...	...	112
West Thana ... ..	...	...	...	...	...	121
Total ...	...	...	...	...	...	376
Total, Northern Circle ...	2,416	27	22	2,421	91	551

Plans during the year 1935-36

not under ing Plans		Total forest area in Form No. 51 Part I (Total of columns 5, 7, 8 and 9)	Revision			Expenditure on Working Plans during the year	Remarks
Plans not under preparation			Due or required	In progress at end of year	Revised plans sanctioned during year		
Required at pre- sent	Not required at present						
8	9	10	11	12	13	14	15
Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	
...	...	321	...	...	...	.....	(a) Due to territorial changes sanctioned in G. R., R. D., No. 3139,33, dated 13th Novem- ber 1934.
...	...	346	...	...	346	.....
...	...	431	...	84	323	.....
...	...	336	...	...	334	.....
...	...	702	...	554	...	.....
...	...	355	...	119	...	.....
...	...	2,494	...	757	1,008	.....
...	...	1	...	...	...	.....
...	3	12	...	...	...	.....
6	...	6	...	...	...	.....
...	...	92	...	...	...	.....
6	3	111	...	...	...	.....
...	...	143	...	...	...	.....	Gurcharani area for which a Working Plan is being drawn up.
...	...	112	...	...	...	.....
...	...	121	...	...	...	.....
...	...	376	...	...	...	.....
6	3	2,921	...	757	1,008	.....

FORM No. 55.—Progress made in Working

Division	Area under sanctioned Working Plans					Area Work Plans under preparation
	At commencement of year	Added during year	Deducted during year	At close of year		
				Actual area	Percentage of total forest area (as shown in column 6)	
1	2	3	4	5	6	7
CENTRAL CIRCLE						
<i>Reserved Forests</i>						
East Khandesh ...	750	...	...	760	100	...
North Khandesh ...	883	...	...	883	100	...
West Khandesh ...	351	...	...	351	87	...
Mandvi Sub-Division ...	77	107	...	78	99	...
Poona ...	564	...	...	564	100	...
Kolaba ...	434	...	...	434	97	...
Satara ...	78	...	...	78	16	416
Total ...	3,146	1	...	3,147	81	416
<i>Protected Forests</i>						
Poona ...	...	...	...	...	...	...
Kolaba ...	...	...	...	...	...	...
Satara ...	1	...	...	1	100	...
Total ...	1	...	...	1	2	...
<i>Leased Forest</i>						
Satara ...	11	...	...	11	55	9
Total, Central Circle ...	3,158	1	...	3,159	80	425
SOUTHERN CIRCLE						
Kanara, Northern Division ...	398	2,000	...	400	45	...
Do. Eastern do. ...	326	...	1(k)	385	36	...
Do. Western do. ...	407	...	...	407	38	...
Belgaum do. ...	367	...	1(l)	366	53	...
Dharwar-Bijapur do. ...	429	...	...	429	58	...
Total, Southern Circle ...	1,987 (m)+19	2	2	1,987 (m)+19	47	...

Plans during the year 1935-36—contd.

not under ing Plans		Total forest area in Form No. 51 Part I (Total of Columns 5, 7, 8 and 9)	Revision			Expenditure on Working Plans during the year	Remarks
Plans not under preparation			Due or required	In progress at end of year	Revised plans sanctioned during year		
Required at present	Not required at present							11	12	13
9	10	11	12	13	14	15	
Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	
...	1	761	409(a)	51(b)	...	.....	(a) East and North Khandesh Saurpda Working Plan.
...	2(c)	884	797(a)	...	...	.....	(b) Satmalla Forests.
...	269(d)	620	...	223(e)	...	.....	(c) Shirpur and Taloda newly afforested area.
...	1	79	...	...	...	247	(d) Sakri, Pimpalner and Dhulia pt. scrub jungles.
..	1(f)	865	...	...	...	.....	(e) 171 Nawapur, Nandurbar. 52 Deomogra. 223
...	16(h)	450	...	...	...	.....	(f) Newly* afforested area brought under working Plan (vide Chief Conservator's No. 37-1333, dated 23rd August 1935).
...	...	494	...	78(i)	...	.....	(g) Bahul areas set apart for giving out for cultivation.
...	290	3,533	1,206	382	...	247	(h) Areas taken over from the Revenue Department.
...	11	11	...	...	...	.....	(i) 45 Karad, Patan and Shirala.
...	35	35	...	...	...	.....	23 Mahabaleshwar.
...	...	1	...	1	...	.....	78 Total.
...	46	47	...	1	...	.....	(j) Area of Revised Working Plan for the Nagzari Valley sanctioned in G.R. R.D. No. 2556/33 of 23rd April 1935.
...	...	20	...	11	...	.....	(k) Rectification of errors in previous return.
...	336	3,920	1,206	364	...	247	(l) Area excluded from sanctioned Working Plans as per Chief Conservator's No. 37/3362 of 4th/6th March 1935. (Areas less than half a square mile have been ignored and those half square mile and above have been taken as one square mile.)
...	498	598	...	28	13(m)	1,505	(m) In charge of Revenue Department but included in Sandal Wood Working Plan for working sandalwood trees.
...	680	1,065	57	251	...	.....	(n) Difference between the revised Working Plan for Bahul Teak Pole Forest sanctioned in G.R. R.D. No. 757-21 of 22nd September 1934 and the area of the original Working Plan.
...	652	1,039	...	49	...	2,850	
90	212	688	...	...	...	.....
...	62	491	51	...	...	.....
90	2,134	4,211 (n) + 15	138	328	13	4,664	

FORM No. 55.—Progress made in Working

Division	Area under sanctioned Working Plans				At close of year	Percentage of total forest area in (as shown in column 10)	Area Work Plans under preparation
	1	2	3	4				5	6	7
	At commencement year	Added during year	Deducted during year	Actual area	of year		
SIND CIRCLE							
<i>Reserved Forests</i>							
Sukkur	294	..	..	294	83	31
Shikarpur	206	..	..	206	85	29
Larkana	171	..	..	171	95	3
Hyderabad	145	..	..	145	65	63
Karachi	157	..	..	157	80	40
Total	913	..	..	913	83	166
<i>Protected Forests</i>							
Sukkur	..	..	..	..	.....	..
Shikarpur	..	..	..	..	.....	..
Larkana	..	..	..	..	.....	..
Hyderabad	..	..	..	..	.....	19
Karachi	..	..	..	..	.....	25
Total	1	..	..	1	4	44
Total, Sind Circle	914	..	..	914	81	210
Grand Total, Presidency	8494	30	24	8509	70	1,186	

Plans during the year 1935-36—concl'd.

not under working Plans	Plans not under preparation		Total forest area in Form No. 51, Part I (Total of columns 5, 7, 8 and 9)	Revision			Expenditure on Working Plans during the year	Remarks
	8 Required at present	9 Not required at present		11 Due or required	12 In progress at end of year	13 Revised plans sanctioned during year			14 Brs.
...	...	21	1,100	...	743	...	.....
...	...	16	333	...	145	...	.....
...	...	6	190	...	...	...	.....
...	235	...	206	...	.....
...	365	...	234	...	.....
...	...	18	18	...	...	...	.....
...	...	22	32	...	...	...	.....
...	
...	...	10	29	...	...	...	.....
...	36	...	1	...	.....
...	...	50	95	...	1	...	.....
...	72	...	1,195	...	743	...	.....
96	2,544	12,326	1,344	2,192	1,021	4,911		

FORM No. 56.—Statement showing Communications

Division	New works				
	Buildings				Total expenditure incurred
	Expenditure on				
	Head quarter houses	Rest houses	Houses for subordinate establishment	Others	
1	2(a)	2(b)	2(c)	2(d)	3
	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle	1,379	4,187	.....	5,536
Central Circle	1,366	15,572	48	16,986
Southern Circle	199	6,504	.....	7,103
Siad Circle	6,180	.....	6,180
Forest Engineering Division
Grand Total, Presidency	2,914	33,843	48	35,806

and Buildings during the year 1935-36.

undertaken during the year

Roads and paths								Other works	Total expenditure on new works
Cart roads		Bridle paths		Others		Total length of paths or roads	Total expenditure incurred	Expenditure incurred	
Length	Cost	Length	Cost	Length	Cost				7	8
4(a)	4(b)	4(c)	4(d)	4(e)	4(f)	5	6	7	8
Miles	Rs.	Miles	Rs.	Miles	Rs.	Miles	Rs.	Rs.	Rs.
2	5,670	...	...	...	...	2	5,670	363	11,569
3½	4,700	...	..	...	...	3½	4,700	345	22,031
4	7,187	...	...	...	...	4	7,187	...	14,390
.....	...	...	...	...	...	.....	...	40	6,320
.....
9½	17,557	...	...	...	...	9½	17,557	748	54,110

* Includes Rs. 223 on account of cost of land acquisition and Rs. 34 on account of cost of surveying new roads.

FORM No. 56.—Statement showing Communications

Division	Repairs				
	Buildings				Total expenditure incurred
	Expenditure on				
	Head quarter houses	Rest houses	Houses for subordinate establishment	Others	
1	9(a)	9(b)	9(c)	9(d)	10
	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle ...	350	2,545	3,782	129	6,836
Central Circle ...	.....	3,341	*2,653	227	6,251
Southern Circle ...	1,122	2,645	4,939	669	9,278
Sind Circle ...	1,292	596	1,445	33	3,365
Forest Engineering Division ...	.....	.....	113	5	118
Grand Total, Presidency ...	2,794	9,129	12,962	965	25,848

* Includes Rs. 236 pay of bungalow watchers.

and Buildings during the year 1935-36—contd.

executed during the year										Remarks
Roads and paths								Other works		
Cart roads		Bridle paths		Others		Total length of paths or roads	Total expenditure incurred	Expenditure incurred	Total expenditure incurred	
Length	Cost	Length	Cost	Length	Cost					
11(a)	11(b)	11(c)	11(d)	11(e)	11(f)	13	13	14	15	16
Miles	Rs.	Miles	Rs.	Miles	Rs.	Miles	Rs.	Rs.	Rs.	
280	12,926	...	...	1	38	281	12,964	334	90,134
407	7,586	104	545	...	13	511	8,144	35	14,430	
350	21,874	...	...	19	45,629	369	67,503	2,689	79,470
...	...	...	...	...	...	...	...	11,063	4,428
...	...	...	...	...	...	...	...	...	118
1,037	42,386	104	545	20	45,680	1,161	88,611	4,121	1,18,580	

† Includes Rs. 532 paid to the P. W. D. for regular water supply.

FORM No. 57.—Statement showing register of Breaches

Forest Division	Cases pending from previous year			Net Injury to forest by fire		
	A.	B.	All.	A.	B.	C.
	2	3	4	5	6	7
NORTHERN CIRCLE						
Panch Mahals	4	9 (c)	13	...	7	245
North Thana	1	122 (e)	123	...	...	110
East Thana	8	27	35	3	15	80
West Thana	2	159	161	1	9	147
East Nasik	4	*156	*160	...	...	19
West Nasik	20	165	185	...	37	33
Total, Northern Circle ...	39	638	677	4	72	634
CENTRAL CIRCLE						
East Khandesh	20 (b)	92 (b) (c)	112	...	17	94
North Khandesh	3 (a) (b)	120 (a) (b) (c)	123	6	15	125
West Khandesh	17 (b)	162 (b) (c) (d)	179	7	11	56
Poona	6 (b)	125 (b) (c) (d)	132	...	22	53
Kolaba	5 (b)	125 (b)	131	1	35	59
Satara	7 (b)	83 (b)	90	...	19	110
Total, Central Circle ...	58	703	737	14	120	497

of Forest Rules during the year 1935-36.

cases of the year

Unauthorised felling			Unauthorized grazing			Other offences			Total		
A.	B.	C.	A.	B.	C.	A.	B.	C.	A.	B.	C.
8	9	10	11	12	13	14	15	16	17	18	19
15	1,154	215	7	798	2	2	108	7	24	2,067	469
3	486	160	1	342	3	...	69	1	4	897	274
8	676	64	1	197	2	7	334	11	19	1,216	157
19	833	219	5	284	...	6	149	4	31	1,275	370
2	304	31	3	561	7	5	124	19	10	989	76
48	1,180	105	16	333	...	20	393	...	84	1,952	138
95	4,642	794	33	2,505	14	40	1,177	42	172	8,396	1,484
3	453	49	1	352	2	...	197	...	4	1,019	145
4	295	26	1	148	...	2	65	...	13	526	154
10	830	100	3	265	1	1	173	1	21	1,279	155
10	950	71	9	587	2	1	309	...	20	1,668	126
9	844	232	...	276	3	2	166	1	12	1,322	295
...	715	45	...	505	...	3	153	1	3	1,122	156
36	4,087	623	14	1,833	8	9	1,095	3	73	7,126	1,031

FORM No. 57.—Statement showing register of Breaches

Forest Division	Total cases				Disposed of					
					Convictions				Acquit	
	Cases		Persons		Cases					
	A.	B.	C.	All.	A.	B.	A.	B.	A.	B.
1	20	21	22	23	24	25	26	27	28	29
NORTHERN CIRCLE										
Panch Mahale ...	28	2,076	478	2,582	20	2,061	39	5,233	4	...
North Thana ...	5	1,019	278	1,302	5	883	10	1,775	...	...
East Thana ...	27	1,243	157	1,427	11	1,187	23	2,633	3	...
West Thana ...	33	1,434	370	1,837	26	1,838	48	2,727	...	...
East Nasik ...	14	1,145	76	1,235	10	1,023	36	2,826	1	...
West Nasik ...	104	2,117	138	2,359	21	1,730	76	2,575	1	...
Total, Northern Circle ...	211	9,034	1,497	10,742	93	8,122	232	17,759	9	...
CENTRAL CIRCLE										
East Khandesh ...	94	1,111	156	1,291	20	945	39	4,506	1	...
North Khandesh ...	16	646	178	840	12	596	17	1,587	...	...
West Khandesh ...	38	1,441	131	1,660	23	1,079	38	2,751	3	...
Poona ...	26	1,994	126	2,146	23	1,805	47	4,616	...	...
Kolsaba ...	17	1,448	295	1,760	10	1,202	16	2,918	1	...
Satara ...	10	1,205	169	1,373	8	1,140	23	2,470	1	...
Total, Central Circle ...	131	7,845	1,091	9,073	95	6,768	180	18,848	6	...

of Forest Rules during the year 1935-36—contd.

during the year											Remarks
Total								Cases pending at close of year			
Persons		Cases			Persons						
A.	B.	A.	B.	All.	A.	B.	All.	A.	B.	All.	
30	31	32	33	34	35	36	37	38	39	40	41
14	...	24	2,061	2,085	53	5,223	5,276	4	15	19	
...	...	5	883	883	10	1,775	1,785	...	136	136	
13	...	14	1,187	1,201	36	2,633	2,669	13	56	69	
...	...	26	1,333	1,364	48	2,727	2,775	7	196	203	
1	...	11	1,023	1,034	37	2,826	2,863	3	122	125	*16 cases transferred from the East Nasik Division to the West Nasik Division.
17	...	22	1,730	1,752	93	2,575	2,668	82	387	469	
46	...	102	8,122	8,224	277	17,759	18,036	109	912	1,021	
1	...	21	945	966	40	4,506	4,546	3	166	169	
...	...	12	596	608	17	1,587	1,604	4	50	54	
8	...	26	1,079	1,105	46	2,751	2,797	12	362	374	
...	...	22	1,806	1,828	47	4,616	4,663	4	188	192	
4	...	11	1,202	1,213	20	2,918	2,938	6	246	252	
2	...	9	1,140	1,149	25	2,470	2,495	1	65	66	
35	...	101	6,768	6,869	195	18,848	19,043	30	1,077	1,107	

FORM No. 57.—Statement showing register of Breaches

Forest Division	Cases pending from previous year			New		
				Injury to forest by fire		
	A.	B.	All.	A.	B.	C.
1	2	3	4	5	6	7
SOUTHERN CIRCLE						
Kanara, N. D. ... ..	.....	7	7	...	1	52
Do. E. D.	3	(b) 35	41	1	...	86
Do. W. D.	5	16	21	...	1	85
Belgaum Division ...	1	34	35	4	11	107
Dharwar-Bijapur Division ..	4	5	9	...	...	43
Total, Southern Circle ...	13	100	113	5	13	373
SIND CIRCLE						
Sukkur	(a) 10	25	35	...	...	70
Shikarpur	5	8	13	1	...	88
Larkana	(a) 6	32	39	...	...	57
Hyderabad	14	141	155	...	...	60
Karachi	9	.....	9	...	...	34
Total, Sind Circle ...	44	210	254	1	...	309
Grand Total, Presidency ...	154	1,657	1,811	24	205	1,813

(a) 3 cases transferred from A to B.

(b) 40 cases transferred from B to A.

(c) 75 cases transferred from B to C.

(d) 10 cases cancelled under B.

A means cases taken into court.

B means cases disposed of under section 57 of the Indian Forest Act.

C means undetected cases

of Forest Rules during the year 1935-36—contd.

cases of the year											
Unauthorized felling			Unauthorized grazing			Other offences			Total		
A.	B.	C.	A.	B.	C.	A.	B.	C.	A.	B.	C.
8	9	10	11	12	13	14	15	16	17	18	19
...	43	5	...	32	...	...	9	...	...	85	57
3	93	20	...	10	...	1	33	2	5	135	108
7	473	42	...	23	...	1	127	6	8	624	138
2	451	59	1	209	...	1	63	2	8	814	168
1	335	57	4	238	4	1	173	4	6	745	108
13	1,394	183	5	572	4	4	495	14	17	2,404	574
7	198	5	1	364	7	3	9	...	11	571	82
4	287	41	6	261	...	5	77	2	16	625	131
...	177	61	...	220	...	23	128	...	23	575	118
38	671	14	32	1,230	11	19	112	1	89	2,013	86
3	385	5	2	254	...	4	76	2	9	715	41
52	1,718	126	41	2,379	18	54	402	5	148	4,499	468
196	11,541	1,625	93	7,263	44	107	3,100	64	425	21,435	3,547

FORM No. 57.—Statement showing register of Breaches

Forest Division	Total cases				Disposed of					
					Convictions				Acquit	
	Cases		Persons		Cases					
	A.	B.	C.	All.	A.	B.	A.	B.		
1	20	21	22	23	24	25	26	27	28	29
SOUTHERN CIRCLE										
Kanara, N. D.		92	57	149	...	90	...	177	...	...
Do. E. D.	8	173	168	289	6	148	9	296	1	...
Do. W. D.	13	540	132	756	8	625	16	1,616	1	...
Belgaum Division	9	818	168	1,025	6	792	13	2,031	...	...
Dharwar-Bijapur Division.	10	751	108	859	5	746	15	2,340	4	...
Total, Southern Circle ...	40	2,504	574	3,118	25	2,401	53	6,469	6	...
SIND CIRCLE										
Sukkur	21	599	83	702	13	581	17	708	2	...
Shikarpur	21	633	131	756	12	620	43	721	1	...
Larkana	20	608	118	735	29	461	51	564	...	...
Hyderabad	103	2,154	86	2,343	64	2,080	92	2,966	1	...
Karachi	18	715	41	774	7	715	16	1,036	5	...
Total, Sind Circle	182	4,709	458	5,359	125	4,457	292	5,905	9	...
Grand Total, Presidency ...	574	34,692	3,623	38,259	323	21,748	687	49,071	53	...

of Forest Rules during the year 1935-36—concl'd.

during the year								Cases pending at close of year			Remarks
Cases		Total									
Persons		Cases			Persons						
A.	B.	A.	B.	All.	A.	B.	All.	A.	B.	All.	
30	31	32	33	34	35	36	37	38	39	40	41
...	90	90	...	177	177	...	2	2	
1	...	7	148	155	10	296	306	1	25	26	
2	...	9	625	634	18	1,616	1,634	4	15	19	
...	...	6	792	798	13	2,034	2,047	3	56	59	
16	...	9	746	755	31	2,346	2,377	1	5	6	
19	...	31	2,401	2,432	72	8,480	6,541	9	104	112	
7	...	15	581	596	24	708	732	6	18	24	
2	...	13	620	633	45	721	766	8	13	21	
...	...	29	461	490	54	564	618	...	147	147	
4	...	65	2,080	2,145	96	2,066	3,062	38	74	112	
4	...	12	715	727	20	1,086	1,056	5	...	6	
17	...	124	4,487	4,611	239	3,935	6,234	58	252	310	
95	...	353	21,748	22,101	783	49,071	49,554	206	2,344	2,550	

FORM No. 58.—*Area of Forest Tracts protected from fire during 1935-36.*

Division.	Area in square miles.		Percentage of forests under fire protection to total area of reserves.	Percentage of failures to area attempted.		Remarks.
	Attempted.	Protected.		Average of past 5 years.	During the year.	
1	2	3	4	5	6	7
NORTHERN CIRCLE.						
Panch Mahals ...	321	284	100	8.6	11.5	
North Thana ...	347	328	100	3.5	5.5	
East do. ...	431	417	100	4.7	3.2	
West do. ...	348	333	100	3.4	4.3	
East Nasik ...	708	707	100	0.3	0.1	
West do. ...	450	443	100	1.8	1.8	
Total, Northern Circle.	2,605	2,511	100	3.1	3.6	
CENTRAL CIRCLE.						
East Khandesh ...	761	653	100	17.0	14.2	
North do. ...	884	689	100	19.5	22.1	
West do. ...	639	658	100	4.9	5.8	
Poons ...	574	556	100	3.0	3.1	
Kolaba ...	485	479	100	1.23	1.3	
Satara ...	515	511	100	0.7	0.97	
Total, Central Circle.	3,918	3,545	100	9.2	9.6	
SOUTHERN CIRCLE.						
Kanara, N. D. ...	64	58	7	3.6	9.4	
Do. E. D. ...	230	217	22	2.0	5.6	
Do. W. D. ...	42	40	4	1.4	4.3	
Belgaum Division ...	99	98	14	7.2	1.0	
Dharwar-Bijapur ...	491	479	100	6.2	2.4	
Total, Southern Circle.	926	892	22	4.3	3.7	
SIND CIRCLE.						
Sukkur ...	192	190	68	1.5	1.0	
Shikarpur ...	37	34	14	4.8	7.0	
Larkana ...	75	74	41	1.0	1.0	
Hyderabad ...	65	62	26	4.4	4.6	
Karachi ...	124	123	55	0.9	0.5	
Total, Sind Circle ...	493	483	41	2.5	2.9	
Grand Total, Presidency.	7,912	7,431	67	5.8	6.4	

FORM No. 59.—*Causes of Forest fires during 1935-36.*

FORM No. 59.—Causes of

Circles and Divisions	Fires originating in departmental fire conservancy operation		External fires crossing the fire traces	
	No. of fires	Area burnt acres	No. of fires	Area burnt acres
1	2	3	4	5
NORTHERN CIRCLE				
Panch Mahals	4	43	11	811
North Thana	1	30	.....	.....
East do.	3	67	.....	.....
West do.	1	200	.....	.....
East Nasik ... ..	.....	.....	1	2
West do. ... ..	.....	.....	.....	.....
Total, Northern Circle ...	9	245	12	813
CENTRAL CIRCLE				
East Khandesh ... ..	.....	.....	21	22,738
North do. ... ..	.....	.....	6	3,025
West do.	7	393	4	876
Poona	13	476	13	1,227
Kolaba ... ..	.....	.....	24	278
Satara ... ..	.....	.....	22	217
Total, Central Circle ...	22	669	90	27,663
SOUTHERN CIRCLE				
Kanara, N. D.	2	289	.....	.....
Do. E. D.	2	270	14	3,823
Do. W. D. ... ..	.....	.....	1	15
Belgaum Division ... ..	.....	.....	.....	.....
Dharwar-Bijapur Division ...	.....	.....	5	576
Total, Southern Circle ...	4	559	20	4,414
SIND CIRCLE				
Sukkur ... ..	.....	.....	.....	.....
Shikarpur ... ..	.....	.....	.....	.....
Larkana ... ..	.....	.....	.....	.....
Hyderabad ... ..	.....	.....	.....	.....
Karachi ... ..	.....	.....	.....	.....
Total, Sind Circle ...	.....	.....	.....	.....
Grand Total, Presidency ...	33	1,773	122	33,000

Column 6 and 7.—By carelessness of workmen employed by purchasers, cutters, villagers, travellers, etc., or by accident due to railway engines, lightning, fire balloons, etc.

Forest Fires during 1935-36.

Fires beginning inside the reserve or fire-traced area				Fires due to causes unknown		Total	
Owing to carelessness of outsiders or due to accident		Owing to intentional or malicious firing		No. of fires	Area burnt acres	No. of fires	Area burnt acres
6	7	8	9	10	11	12	13
32	935	204	21,858	.....	.....	252	23,652
14	932	2	1,155	110	11,772	110	11,772
9	228	.....	.....	85	6,921	202	9,138
1	50	.....	.....	145	9,589	157	9,884
17	169	.....	.....	17	1,025	19	1,245
74	2,284	206	23,013	52	4,517	70	4,688
88	45,983	1	50	409	33,824	720	60,279
61	49,434	.....	.....	1	520	112	69,291
10	1,795	4	2,905	59	72,713	146	125,172
79	7,128	3	120	55	20,542	50	26,619
59	2,326	7	815	15	2,458	13	11,409
71	2,175	.....	.....	6	357	96	4,006
385	109,041	15	3,890	36	980	129	3,273
3	1,591	1	1	172	97,500	685	139,163
42	3,021	3	448	47	12,128	53	14,719
15	1,529	.....	.....	29	2,315	99	9,877
82	7,260	3	7	70	3,181	86	5,219
.....	.....	.....	.....	57	3,515	122	10,785
142	13,905	7	456	38	7,586	43	7,672
60	754	.....	.....	21	19,388	394	48,272
57	761	.....	.....	70	1,318	70	1,318
.....	.....	.....	.....	29	895	89	1,649
.....	.....	.....	.....	60	1,771	60	1,771
.....	.....	.....	.....	29	865	29	865
117	1,515	.....	.....	188	4,669	305	6,164
721	126,345	238	27,359	990	165,311	2,094	353,578

Columns 8 and 9.—Intentional firing in order to obtain new grass or to burn out game or reduce cover, or malicious firing

FORM No. 60.—Area closed and open to grazing during 1935-36.

Division	Area in square miles						Remarks
	Closed to all animals		Open to grazing				
			Of all animals		Of all animals except browsers (camels, sheep and goats)		
	Whole year	Part of year	Whole year	Part of year	Whole year	Part of year	
1	2	3	4	5	6	7	8
NORTHERN CIRCLE	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	
Panch Mahals	101	19	...	...	205	...	
North Thana	24	...	144	...	332	...	
East do.	27	...	112	...	404	...	
West do.	19	...	121	...	329	...	
East Nasik	77	...	373	...	368	...	
West do.	25	13	104	...	321	...	
Ahmedabad ... ..	...	...	15	...	...	...
Total, Northern Circle ...	273	32	669	...	1,689	...	
CENTRAL CIRCLE							
East Khandesh	171	172	38	...	417	...	
North do.	52	...	37	...	795	...	
West do.	130	10	229	...	470	...	
Poona	68	82	372	...	399	13*	
Kolaba	27	...	102	...	403	4	
Satara	27	24	166	...	464	...	
Ahmednagar-Sholapur ... ..	...	...	644	...	...	...
Total, Central Circle ...	475	288	1,608	...	2,918	17	
SOUTHERN CIRCLE							
Kanara, N. D.	57	...	11	...	841	...	
Do. E. D.	341	...	...	...	605	...	
Do. W. D.	100	...	...	...	982	...	
Belgaum Division	69	...	2	...	629	...	
Dharwar-Bijapur Division	72	...	172	...	399	...	
Ratnagiri ... ..	...	...	18	...	...	...
Total, Southern Circle ...	639	...	203	...	3,756	...	
SIND CIRCLE							
Sukkur	5	...	32	...	246	...	
Shikarpur	6	...	7	...	215	...	
Larkana ... ..	...	7	11	...	162	...	
Hyderabad	28	3	59	52	110	...	
Karachi	25	...	28	...	166	...	
Total, Sind Circle ...	67	10	167	52	899	...	
Grand Total, Presidency ...	1,454	330	2,847	52	9,492	17	

*The area submerged in the Bhandardara lake and used for P. W. D. roads have been excluded from this form.

FORM No. 61.—*Return of Grazing in the State Forests
during 1935-36.*

FORM No. 61.—Return of Grazing in

Division	Grazing					
	At Full Rates					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Fees received
- 1	2	3	4	5	6	7
NORTHERN CIRCLE	No.	No.	No.	No.	No.	Rs.
<i>Reserved and Protected Forests</i>						
Panch Mahals ...	899	959	.....	.....	.....	1,568
North Thana ...	5	24	.....	.....	.....	29
East do. ...	326	3,078	.....	.....	.....	3,404
West do. ...	203	767	.....	.....	.....	976
East Nasik ...	3,189	5,654	100,925	.....	1,891	35,965
West do. ...	.....	45	.....	.....	.....	46
Total, Northern Circle...	4,628	10,527	100,925	.....	1,891	42,287
CENTRAL CIRCLE						
<i>Reserved Forest</i>						
East Khandesh ...	1,743	7,954	.....	.....	258	9,950
North do. ...	6,020	25,562	.....	.....	3,287	34,859
West do. ...	1,172	3,556	.....	.....	3,027	7,767
Poona ...	136	297	.....	.....	14	447
Kolaba ...	39	123	.....	.....	.....	162
Satara ...	39	25	.....	.....	.....	69
Total ...	9,149	37,509	.....	.....	6,581	53,239
<i>Protected Forest</i>						
Satara ...	.....	.....	.....	.....	.....	.....
<i>Leased Forest</i>						
Satara ...	.....	.....	.....	.....	.....	.....
Total, Central Circle ...	9,149	37,509	.....	.....	6,581	53,239

the State Forests during 1935-36

on payment

At Privileged Rates

Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Fees received	
					Actual	Value at full rates
8	9	10	11	12	13	14
No.	No.	No.	No.	No.	Rs.	Rs.
934	4,279	.....	.....	.....	1,624	5,213
195	1,277	.....	.....	.....	510	1,472
2,972	21,736	.....	.....	.....	6,959	24,768
428	1,593	.....	.....	3	840	2,023
19,099	151,513	73,980	.....	1,408	58,872	1,90,515
6,067	62,309	8,709	.....	69	20,688	70,622
29,695	242,767	82,689	.....	1,479	89,693	2,94,513
28,633	137,633	.....	.....	1,334	60,253	1,67,660
5,233	36,019	.....	.....	31	20,261	41,333
13,707	110,181	165,179	.....	1,231	69,274	2,90,298
110,973	15,382	27,554	.....	504	37,603	1,54,413
14,123	68,128	109	.....	9	19,238	72,369
27,871	69,235	41,634	.....	233	32,661	1,39,173
200,590	426,628	234,676	.....	3,342	2,39,590	8,55,235
39	39	.....	.....	.....	13	78
531	830	10	.....	1	355	1,372
271,160	127,497	234,686	.....	3,343	2,39,964	8,66,686

FORM No. 61.—Return of Grazing in

Division	Grazing					
	By right under Settlement					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates
1	15	16	17	18	19	20
NORTHERN CIRCLE	No.	No.	No.	No.	No.	Rs.
<i>Reserved and Protected Forests</i>						
Panch Mahals	.....	.....	.....	.....	.....	.....
North Thane	.....	.....	.....	.....	.....	.....
East do.	.....	.....	.....	.....	.....	.....
West do.	.....	.....	.....	.....	.....	.....
East Nasik	.....	.....	.....	.....	.....	.....
West do.	.....	.....	.....	.....	.....	.....
Total, Northern Circle...	.....	.....	.....	.....	.....	.....
CENTRAL CIRCLE						
<i>Reserved Forest</i>						
East Khandesh	.....	.....	.....	.....	.....	.....
North do.	.....	.....	.....	.....	.....	.....
West do.	.....	.....	.....	.....	.....	.....
Poona	121	262	.....	.....	3	386
Kolaba	175	664	.....	.....	.....	739
Betawa	.....	20	.....	.....	.....	20
Total	296	846	.....	.....	3	1,145
<i>Protected Forest</i>						
Betawa	.....	.....	.....	.....	.....	.....
<i>Leased Forest</i>						
Betawa	.....	.....	.....	.....	.....	.....
Total, Central Circle	296	846	.....	.....	3	1,145

the State Forests during 1935-36—contd.

free						Total value of fees at full rates column 20 + column 26	Grand Total of value at full rates
During pleasure of Government or otherwise than under Settlement							
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates		
21	22	23	24	25	26	27	28
No.	No.	No.	No.	No.	Rs.	Rs.	Rs.
22,682	107,953	.....	.....	.....	1,30,635	1,30,635	1,27,716
29,816	102,198	.....	.....	.....	1,32,014	1,32,014	1,32,515
6,866	58,926	.....	.....	.....	65,692	65,692	93,864
22,181	78,909	867	.....	610	1,01,917	1,01,917	1,04,916
135	1,141	.....	.....	.....	1,276	1,276	2,27,756
4,473	46,175	.....	.....	135	50,774	50,774	1,21,141
86,153	395,202	867	.....	736	4,82,308	4,82,308	8,19,208
4,690	14,516	.....	.....	260	10,466	19,466	1,97,066
2,871	24,565	.....	.....	29	27,465	27,465	1,03,657
2,015	30,610	313	.....	59	33,027	33,027	3,31,082
52	1,843	.....	.....	.....	1,895	2,281	1,57,141
566	2,190	.....	.....	.....	2,755	3,495	75,026
.....	.....	.....	.....	.....	.....	20	1,39,257
10,194	73,724	343	.....	348	81,609	85,754	10,04,329
.....	.....	.....	.....	.....	.....	.....	79
.....	.....	.....	.....	.....	.....	.....	1,372
10,194	73,724	343	.....	348	81,609	85,754	10,05,679

FORM NO. 61.—Return of Grazing in

Grazing

Division.	At Full Rates.					
	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Fees received.
	1	2	3	4	5	6
	No.	No.	No.	No.	No.	Rs.
SOUTHERN CIRCLE						
Kanara, N. D. ...	197	63	.....	.....	.....	263
Do. E. D. ...	.....	.....	.....	.....	.....	.....
Do. W. D. ...	.....	.....	.....	.....	.....	.....
Belgaum Division ...	136	53	.....	.....	.....	179
Dharwar-Bijapur ...	358	234	.....	.....	.....	592
Total, Southern Circle...	681	353	.....	.....	.....	1,034
SIND CIRCLE						
Sukkur ...	1,672	2,112	5,167	26	387	7,441
Shikarpur ...	1,881	2,839	7,475	.....	71	7,555
Larkana ...	1,676	1,037	6,568	.....	54	5,567
Hyderabad ...	6,812	9,718	40,957	29	327	28,827
Karachi ...	4,101	5,133	11,313	316	2,129	14,596
Thar Parkar ...	.....	.....	.....	.....	.....	145
Total, Sind Circle ...	16,142	20,839	71,470	371	2,968	64,132
Grand Total, Presidency.	30,610	69,228	172,395	371	11,440	1,60,662

the State Forests during 1935-36—contd.

on payment.

At Privileged Rates.						
Buffaloes.	Cows and Bullocks.	Goats and sheep.	Camels.	Other animals.	Fees received.	
					Actual.	Value at full rates.
8	9	10	11	12	13	14
No.	No.	No.	No.	No.	Rs.	Rs.
7,171	27,657	60	.....	.....	4,400	34,888
14,769	51,748	703	.....	7	8,615	67,927
16,904	56,103	448	.....	.....	9,294	73,455
15,861	40,548	20,752	40	17,457	77,201
24,888	79,415	55,747	81	42,929	1,60,131
79,593	255,471	77,710	123	81,995	4,12,902
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.....
310,448	925,735	325,085	4,950	4,11,652	15,74,201

FORM No. 61.—Return of Grazing in

Division	Grazing					
	By right under Settlement					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates
1	15	16	17	18	19	20
SOUTHERN CIRCLE	No.	No.	No.	No.	No.	Rs.
Kadara N. D. ...	.....	.....	.....	.....	.....	.....
Do. E. D. ...	.....	.....	.....	.....	.....	.....
Do. W. D. ...	.....	.....	.....	.....	.....	.....
Belgaum Division ...	.....	.....	.....	.....	.....	.....
Dharwar-Bijapur ...	.....	.....	.....	.....	.....	.....
Total, Southern Circle...	.....	.....	.....	.....	.....	.....
SIND CIRCLE						
Sukkur ...	674	2,364	.....	.....	3	2,786
Shikarpur ...	449	1,210	.....	.....	13	1,591
Larkana ...	967	893	.....	.....	.....	2,121
Hyderabad ...	17	566	.....	.....	.....	450
Karachi ...	185	58	.....	.....	.....	320
Thar Parkar ...	.....	.....	.....	.....	.....	.....
Total, Sind Circle ...	2,392	5,091	.....	.....	16	7,268
Grand Total, Presidency.	2,588	5,937	.....	.....	19	8,413

the State Forests during 1935-36—concl'd.

free							Grand Total of value at full rates
During pleasure of Government or otherwise than under Settlement						Total value of fees at full rates col. 20 + column 26	
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates		
21	22	23	24	25	26	27	28
No.	No.	No.	No.	No.	Rs.	Rs.	Rs.
393	357	.....	.....	.....	710	740	35,891
.....	.....	.....	.....	.....	.....	.....	67,327
.....	.....	.....	.....	.....	.....	.....	73,455
702	1,266	.....	.....	.....	1,968	1,968	79,348
.....	.....	.....	.....	.....	.....	.....	1,60,733
1,095	1,623	.....	.....	.....	2,708	2,708	4,16,644
212	456	.....	190	160	1,690	4,476	11,917
429	763	.....	262	170	2,604	4,195	11,750
239	127	770	333	.....	2,261	4,382	9,949
1,411	2,373	7,098	1,715	721	14,278	14,729	43,555
372	492	.....	2	555	1,022	1,342	15,838
.....	.....	.....	.....	.....	.....	.....	146
2,663	4,201	7,866	2,502	1,666	21,555	29,123	93,255
100,035	474,760	3,075	2,502	2,750	5,91,450	5,99,593	23,34,756

FORM No. 62.—Progress in Concentrated Regeneration

Division	Working plan or exploitation scheme	Working circle, felling series, coupes or localities in which regeneration was carried out during the year	Area regenerated during the year	
			Mainly natural	Mainly artificial
1	2	3	4	5
NORTHERN CIRCLE			Acres.	Acres.
Panch Mahals	Revised Working Plan of the Panch Mahals Forests.	Godhra Western Working Circle felling series I to XIII Godhra Eastern Working Circle felling series IX to XXVI Kalol Working Circle felling series I to V Habel Working Circle felling series I to IX Dehal Working Circle felling series I to IV, VII to XIX Jhabel Working Circle felling series I to X	5,136	.....
North Thana	Thana Forest Working Plan.	Main felling series I to XLII Pole series I to XII	3,038	.....
East Thana	Do.	Main felling series LXXXIII to CXXVIII Khatwadi Block XXIV Algaon Block I	2,824	.....
West Thana	Working Plan for the Igatpuri Forests.	Felling series I to VIII	2,502	.....
	Thana Forest Working Plan.	Main felling series XLIII to LXXXIII and CXXXII to CXXXV Pole series XIII to XXII		
East Nasik	Working Circle III, Baragaon Dang of the Working Plan for the Dang Forests.	Baragaon Dang Blocks XXVII to XXX	5,405	.....
	Revised Working Plan for the East and West Nasik Divisions.	Karwan Teak felling series V to XVI Karwan scrub felling series XVI to XIX Karwan sub-tropical felling series I to V Baglan Teak felling series I to IV Baglan scrub felling series I to XV and L Malgaha felling series XX to XLIX Nandgaon felling series I to LXXIV		
West Nasik	Revised Working Plan for Joint and adjoining Forests	Felling series Nos. 1 to 20 of periodic Block I	2,011	.....
	Revised Working Plan for the East and West Nasik Divisions.	Blocks Nos 17-25, 75 and 76		
Total, Northern Circle			29,025	.....

and Afforestation for the year ending 31st March 1936.

Area afforested during the year	Cost of regeneration operations during the year including tendings	Brief description of the nature of regeneration work carried out	Remarks
6	7	8	9
Acres.	Rs.		
.....	1,842	Sowing and planting on burnt patches and charcoal kiln sites after clear felling ... 225 Natural regeneration after clear felling ... 4,960	Acres.
.....	5,838	Sowing and planting on burnt patches and charcoal kiln sites after clear felling ... 377 Natural regeneration after clear felling ... 2,721	
.....	2,367	Sowing and planting on burnt patches and charcoal kiln sites after clear felling ... 184 Natural regeneration after clear felling ... 2,640	
.....	2,688	Sowing and planting on burnt patches and charcoal kiln sites after clear felling ... 241 Natural regeneration after clear felling ... 2,238 Sowing of Babul seed after ploughing the felled area ... 25	
.....	2,368	Treated teak, Tixas and Khair seed was sown on rabs and Babul and Khair were sown in furrows in unburnt areas. Anjan was sown in rabs and in furrows and sandal was sown under bushes.	177 10 rabs; 8,228 natu- ral
.....	830	Sowing and planting on burnt patches ... 37 Natural regeneration ... 1,974	
.....	15,523		

FORM No. 62.—Progress in Concentrated Regeneration

Division	Working plan or exploitation scheme	Working circle, felling series, coupes or localities in which regeneration was carried out during the year	Area regenerated during the year	
			Mainly natural	Mainly artificial
1	2	3	4	5
CENTRAL CIRCLE			Acres.	Acres.
East Khandesh	(1) Satpuda Working Plan.	Teak Pole and Anjan Working Circles.	2,864	.....
	(2) Scrub and Jamner Teak.	.....	4,208	.....
	(3) Transpurna Babul	Blocks I and II	.....	14
	(4) Edliabad Babul	Block I	.....	66
			7,072	80
North Khandesh	(1) Satpuda Working Plan.	Anjan, Fuel and Teak Pole Working Circles.	2,818	.....
	(2) Taloda Reserves	Plain Working Circle Hill Do.	.....	392
			309	.....
			3,022	392
West Khandesh	(1) Nawapur-Sandurbar Working Plan.	Western Circle	3,595	.....
	(2) Umarpata Reserves	Blocks I and II	197	.....
	(3) Deomoura Reserves	Do. 1 to IV	711	.....
	(4) Dhulia-Plimpalner Anjan Working Plan.	Do. 1 to VI	1,615	.....
	(5) Mandvi	Do. 1 to XIX	1,829	.....
	(6) Bulsar-Chikhali	Do. 1 to V	44	.....
			8,290	.....
Poona	Poona Working Plan	Main and Protection Working Circles.	2,107	.....
		Fuel Working Circle	.....	63
		Do. do.	.....	251
			2,107	315
Kolaba	(1) Kolaba Working Plan	.....	3,772	.....
	(2) Matheran Working Plan.	.....	38	.....
	(3) Provisional Working Plan for mixed Casuarina forests in Dapoli Round.	.....	4	.....
	(4) Casuarina plantation in Alibag Range.	.....	.....	11
				3,814	11
Satara	(1) Mahabaleshwar Working Plan.	.....	376	.....
	(2) Karad-Patan-Shirala Working Plan.	.....	484	.....
	(3) Provisional Working Plan for forests in Karad, Satara, Wai and Koregaon Talukas.	.....	405	.....
	(4) Unorganized forests.	.....	.....	.....
			1,265	.....
Total, Central Circle...			25,570	798

and Afforestation for the year ending 31st March 1936—contd.

Area afforested during the year	Cost of regeneration operations during the year including tendings	Brief description of the nature of regeneration work carried out	Remarks
6	7	8	9
Acres.	Rs.		
.....	.....	} (a) Natural regeneration supplemented by artificial regeneration on burnt rals.	
.....	25		
.....	.....	} (b) Babul plantation in exploited coupes.	
.....		
.....	25		
.....	481	As per (a) above.	Acres. Natural 2,780 Artificial 35
.....	275	Do.	
.....	18		
.....	774		
.....	1,172	As per (a) above.	3,710 185
.....	.....	Do.	194 3
.....	344	Do.	428 253
.....	.....	Natural regeneration supplemented by artificial regeneration by sowing in pits and mounds.	
.....	725	As per (a) above.	Acres. Natural 1,584 Artificial 144
.....	64	Do.	32 12
.....	2,305		
.....	87	As per (a) above and in addition sowing of sandal seed under bushes and planting of bamboo culms.	
.....	41	As per (b) above.	
.....	.....	Do. on agri-cum forestry system.	
.....	128		
.....	2,695	As per (a) above and in addition transplanting of seedlings in exploited coupes.	
.....	.....	Natural regeneration.	
.....	10	As per (a) above.	
.....	338	Casuarina plantation in cut coupes.	
.....	3,043		
.....	.....	Natural regeneration supplemented by artificial regeneration of important injail species on a smaller scale.	
.....	19	} As per (a) above and in addition stump planting of teak.	
8	5	Sowing of seed on raised mounds and stump planting of teak.	
8	24		
8	6,269		

FORM No. 62.—*Progress in Concentrated Regeneration and*

Division	Working plan or exploitation scheme	Working circle, felling series, coupes or localities in which regeneration was carried out during the year	Area regenerated during the year	
			Mainly natural	Mainly artificial
1	2	3	4	5
SOUTHERN CIRCLE.			Acres.	Acres.
N. D. Kanara	Revised Working Plan for the Haliyal Teak Pole Forests.	Coupes 2 of Blocks I to X and VII A.		
	Supa Fuel Reserves Working Plan.	Block II-25B, V-23B, VII-25A and 25B.	1,013	.....
	Working Plan for Sandalwood Forests of the Haliyal Range.	Block X-37		
	Revised Working Plan of Bhagwati Blocks VIII, IX and XX.	Block VIII-13 Regeneration coupe 5.	...	...
	Revised Working Plan of Supa High Forests.	Working Circle I, Blocks I, II, IV, V, VI and VII.		
	Revised Working Plan of Gund Working Circle.	Periodic Block I—Series X.		427
	Working Plan for the Nazari valley-Kaneri-Kalinsoli slopes.	Series XI-23, 12A and 13B.		
Supa Range	Unorganised forests of Kondli.			
E. D. Kanara	Mundged Teak Pole Working Plan.	Blocks I to XII		
	Revised Working Plan of Yellapur Mundged Teak High Forests.	Blocks XIII, XVIII and XXI.	768	.....
	Revised Working Plan of Yellapur-Mundged Teak High Forests.	Working Circles I, II and III.		411
	Revised Working Plan of Nersoli slopes.	Working Circle II		
W. D. Kanara	Karwar-Fuel Reserves Plan.	Blocks I to IV and VI to XII.		
	Soppinholli High Forest Working Plan (Revised)	Block XXVII—compartment 9.	1,321	.....
	Karwar Casuarina plantation plan.	Arge		
	Revised Working Plan of Ramanguli-Ankola High Forests.	Block XXIV—compartments 29 and 32.		
	Revised Working Plan of Ankola-Kumta-Honavar Bhaded below what Inland Forests.	Blocks I to III, V, VI, VIII to XI, XIII to XV, XVII, XXI and XXII.		537
	Kasarkod-Haldipur Casuarina Working Plan. Arsal slopes Working Plan.	Block II-13 Block XII		

Afforestation for the year ending 31st March 1936-- contd.

Area afforested during the year	Cost of regeneration operations during the year including tendings	Brief description of the nature of regeneration work carried out	Remarks
6	7	8	9
Acres.	Rs.		
.....	1,738	Sowing and planting on burnt patches and in ploughed lines after clear felling—50 acres. Natural Regeneration after clear felling and tending self-grown sandalwood saplings and seedlings—162 acres. Cleanings in older plantations.	
.....	
.....	12,991	Intensive regeneration of teak and principal junglewood species with an espacement of 12' x 6' and 9' x 6' after clear felling the useless trees, etc. and burning the debris. Planting on prepared patches in clearances made during improvement fellings. Tending of casuarina and teak plantations and cleaning in older plantations.	
.....	931	Planting in clear felled and burnt scattered patches—35 acres. Natural regeneration from stools, shoots, etc.—6.3 acres. Tending and cleaning older plantations.	
.....	10,375	Intensive regeneration of teak in clear felled and burnt areas with an espacement of 6' x 6'—347 acres. Natural regeneration from stools, shoots, etc.—64 acres. Tending and cleaning older plantations.	
.....	1,465	Natural regeneration from self-grown seedlings and stools, shoots—1,092 acres. Planting of teak in patches—229 acres. Tending, cleaning and other cultural operations in older plantations.	
.....	5,910	Transplanting Casuarina plants raised in nurseries with an espacement of 12' x 12'. Planting with stumps of teak and principal junglewood species with an espacement of 12' x 6', 9' x 9' and 6' x 6'. Regeneration of teak through Ragi cultivators. Tending, cleaning and other cultural operations in older plantations.	

FORM No. 62—Progress in Concentrated Regeneration and

Division	Working plan or exploitation scheme	Working circle, felling series, coupes or localities in which regeneration was carried out during the year	Area regenerated during the year	
			Mainly natural	Mainly artificial
1	2	3	4	5
SOUTHERN CIRCLE—contd.			Acres.	Acres.
Belaum Division.	Revised Working Plan for the teak pole, fuel and sandalwood Forests of Nagawali and Khatapur Ranges including the sandalwood area of Gurnal Range.	Blocks I to V and VII ...		
	Working Plan for the Gokak Range Forests.	Blocks II to V, X to XII, XIV to XXI, XXIII to XXVI, XXVIII to XXXI and XXXII.	2,200	.....
	Fatus and Chandgad Rounds.	Block I-20 ...		
	Revised Working Plan for the Nagargali High Forests.	Series XIX—Regeneration area No. A-10.	...	54
Dharwar-Bijapur Division.	Working Plan report of the Dharwar Taluka.	Blocks I to VIII ...		
	Working Plan for Kalghatgi Forests.	Do. I to XIII ...		
	Working Plan for the Bankapur-Hangal Forests.	Do. I to XVI and N.A.		
	Working Plan for the Scrub Forests of Bijapur District.	Do. I to LIII ...	8,163	.....
	Working Plan for the Scrub Forests of Dharwar and Kod Ranges.	Do. I to IV and I to XV.		
	Working Plan for the Sandalwood Forests of Dharwar-Bijapur Division.	Felling Series I to XIV ...		
	Working Plan for the fuel and fodder reserves of the Bijapur District.	Appendix III ...		
Total, Southern Circle ...			13,405	1,429

Afforestation for the year ending 31st March 1956—concl'd.

Area afforested during the year	Cost of regeneration operations during the year including tendings	Brief description of the nature of regeneration work carried out	Remarks
6	7	8	9
Acres.	Rs.		
.....	1,336	Natural regeneration from coppice after felling 2,171 acres. Transplanting plants in burnt patches—29 acres. Tending and cleaning older plantations.	
.....	454	Transplanting stumps on burnt patches—23 acres. Natural regeneration from coppice after felling—31 acres.	
.....	1,008	Planting of teak stumps in burnt patches—50 x 50', sowing seeds of neem, Anjan, etc., and sowing sandal seeds in burnt patches after felling—75 acres. Sowing of Babul seed in lines 12' apart with field crops between the lines—21 acres. Natural regeneration from coppice after felling—1,036 acres. Cleaning and weeding old plantations.	
.....	36,148		

FORM No. 62—Progress in Concentrated Regeneration and

Division	Working plan or exploitation scheme	Working circle, felling series, coupes or localities in which regeneration was carried out during the year	Area regenerated during the year	
			Mainly natural	Mainly artificial
1	2	3	4	5
SINDCIRCLE.			Acres.	Acres.
Sukkur	Revised Working Plans of the Forests of Upper Sind.	Upper Sind Felling series 1 to 4.	3,334	.....
Do.	Do.	Do.	.....	2,054
Do.	Do.	Do.	.....	.....
Mikarpur	Revised Working Plans of the Forests of Upper Sind.	Upper Sind Felling series 1 to 4.	2,048	1,572
		
		
Larkana	Do.	Do.	787	2,404
		
		
Hyderabad	Revised Working Plans of the Forests of Lower Sind.	Felling series I to IV	874	12,523
		
		
Karachi	Do.	Do.	.....	10,016
		
		
		Total, Sind Circle	7,043	28,569
		Grand Total, Presidency.	69,983	30,796

Afforestation for the year ending 31st March 1936—concl'd.

Area afforested during the year	Cost of regeneration operations during the year including tendings	Brief description of the nature of regeneration work carried out	Remarks																					
6	7	8	9																					
Acres.	Rs.																							
.....		Natural regeneration from coppice.	All inland forests not normally affected by the abkalani.																					
.....	482	Dibbling, drilling, patches and broadcast sowings after clear fellings.	All areas which come under the influence of abkalani including kachas and all irrigated plantations.																					
679		Blanks and cultivated areas treated with dibbling, broadcast sowings and plot sowings along cereals.	Areas not under tree growth including cultivations taken in hand for the creation of tree growth.																					
305		<table border="0"> <tr> <td colspan="2">Natural regeneration from</td> <td style="text-align: right;">Acres.</td> </tr> <tr> <td>coppice</td> <td>...</td> <td style="text-align: right;">1,723</td> </tr> <tr> <td>Broadcast, dibbling and</td> <td>...</td> <td></td> </tr> <tr> <td>drilling</td> <td>...</td> <td style="text-align: right;">325</td> </tr> <tr> <td>Broadcast</td> <td>...</td> <td style="text-align: right;">1,262</td> </tr> <tr> <td>Broadcast and dibbling</td> <td>...</td> <td style="text-align: right;">345</td> </tr> <tr> <td>Broadcast and drilling</td> <td>...</td> <td style="text-align: right;">270</td> </tr> </table>	Natural regeneration from		Acres.	coppice	...	1,723	Broadcast, dibbling and	...		drilling	...	325	Broadcast	...	1,262	Broadcast and dibbling	...	345	Broadcast and drilling	...	270	
Natural regeneration from		Acres.																						
coppice	...	1,723																						
Broadcast, dibbling and	...																							
drilling	...	325																						
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.....		Natural regeneration from																						
.....	154	<table border="0"> <tr> <td>coppice</td> <td>...</td> <td style="text-align: right;">787</td> </tr> <tr> <td>Broadcast</td> <td>...</td> <td style="text-align: right;">1,857</td> </tr> <tr> <td>Drills and dibblings</td> <td>...</td> <td style="text-align: right;">532</td> </tr> <tr> <td>Trenches</td> <td>...</td> <td style="text-align: right;">15</td> </tr> </table>	coppice	...	787	Broadcast	...	1,857	Drills and dibblings	...	532	Trenches	...	15										
coppice	...	787																						
Broadcast	...	1,857																						
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4,365		<table border="0"> <tr> <td colspan="2">Artificial sowings by broadcast, dibbles, drills and trenches</td> <td style="text-align: right;">183</td> </tr> <tr> <td>Natural regeneration</td> <td>...</td> <td style="text-align: right;">651</td> </tr> <tr> <td>Broadcast, dibbles drills</td> <td>...</td> <td></td> </tr> <tr> <td>patches</td> <td>...</td> <td style="text-align: right;">12,270</td> </tr> <tr> <td>Natural regeneration</td> <td>...</td> <td style="text-align: right;">253</td> </tr> <tr> <td>Broadcast, sowings, drills and dibbles</td> <td>...</td> <td style="text-align: right;">4,365</td> </tr> </table>	Artificial sowings by broadcast, dibbles, drills and trenches		183	Natural regeneration	...	651	Broadcast, dibbles drills	...		patches	...	12,270	Natural regeneration	...	253	Broadcast, sowings, drills and dibbles	...	4,365				
Artificial sowings by broadcast, dibbles, drills and trenches		183																						
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patches	...	12,270																						
Natural regeneration	...	253																						
Broadcast, sowings, drills and dibbles	...	4,365																						
3,452	1,067	Broadcast, dibbling, drilling, trenches and chungis.																						
8,791	3,827																							
8,799	61,197																							

FORM NO. 63.—*Outturn (in thousands cubic feet, solid) of Timber*

Division 1	Timber					
	Government	Purchasers	Free Grantees	Right and title holders	Total	Government
	2	3	4	5	6	7
	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.
<i>Reserved Forests.</i>						
Northern Circle ...	139	1,977	13	...	2,129	558
<i>Protected Forests.</i>						
Northern Circle ...	...	444	1	...	445	...
<i>Unclassed Forests.</i>						
Northern Circle ...	...	277	...	...	277	...
Total, Northern Circle ...	139	2,698	14	...	2,851	558
<i>Reserved Forests.</i>						
Central Circle ...	17 + 201 Sandal trees.	1,355	15	...	1,300 + 201 Sandal trees.	454
<i>Reserved Forests.</i>						
Southern Circle ...	616	1,501	34	189	2,343	1
<i>Protected Forests.</i>						
Southern Circle ...	<i>vide columns 13 to 17.</i>	...	...	...	...	...
Total, Southern Circle ...	616 Sandal- wood as in col- umns 13 to 17.	1,504	34	189	2,343 Sandal- wood as in col- umns 13 to 17.	1
<i>Reserved Forests.</i>						
Sind Circle ...	4	295	23	...	322	137
Grand Total, Presidency ...	776 Sandal- wood as in col- umns 13 to 17.	5,852	80	189	6,906 Sandal- wood as in col- umns 13 to 17.	1,150

and Fuel during the year 1935-36 and Agency of Exploitation.

Fuel					Total Output					Remarks		
Purchasers	Free Grantees	Right and privilege holders	Total	Timber and fuel	Sandalwood		Rejected Sandalwood					
					Billets, roots, etc.		Trees, billets, branches, roots, chips etc.					
					Scented.	Unscented.	Number	Cft.	Card no's number			
8	9	10	11	12	13	14	15	16	17	18		
c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	K. M. lbs.	K. M. lbs.						
7,536	...	6,155	14,249	16,378	.....	...	...	...	...	...
309	...	447	756	1,201	.....	...	...	...	...	...
324	...	...	324	601	.....	...	...	...	...	...
8,169	...	6,602	15,329	18,190	.....	...	...	...	...	...
6,736	3	9,202	16,395	17,785 + 201 Sandal trees.	.....	...	...	...	...	...
7,965	1	11,108	19,688	21,411	787	8	9	...	(a) 121 (b) 2 (c) 7,503 (e) 6,851 (d) 928	998	253	(a) billets. (b) heads. (c) branches and pieces. (d) stumps. (e) roots.
...	15	13	18	453
7,958	1	11,108	19,688	21,411	803	4	27	...	(a) 121 (b) 2 (c) 7,503 (e) 6,851 (d) 928	1,451	253	...
16,652	2	1,001	17,792	18,114
33,515	6	27,913	68,564	75,490 Sandal- wood as in column 13 to 17.	803	4	27	...	(a) 121 (b) 2 (c) 7,503 (e) 6,851 (f) 401	1,451	253	(f) Sandal trees.

FORM No. 61.—*Outturn of Minor Forest Produce*
for the year 1935-36.

Description of produce	Produce Removed or Utilized								Total
	By Govt- ernment Agency	By purchasers	By free- straits	By right holders	Quantity	Value	Quantity	Value	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
NORTHERN CIRCLE									
<i>Reserved Forests.</i>									
Bamboos ...	5	6,844	...	17	...	54,984	...	61,821	
Grass and grazing	...	1,85,916	...	...	...	4,74,498	...	16,72,704
Apka-Tamburri leaves	...	12,494	...	...	...	4,179	...	16,673
Easti	...	2,394	...	...	...	13,125	...	15,519
Moho flowers, etc.	...	2,591	...	...	...	...	...	2,591
Soures and sand	...	1,312	...	30	...	11,672	...	13,151	
Hirda	...	613	...	...	...	...	...	812
Ain bark	...	814	...	...	...	2,007	...	2,811
Tal palin leaves	...	620	...	...	...	...	...	620
Badal sticks	...	705	...	...	...	...	...	705
Tarwad bark	...	730	...	...	...	...	...	730
Gum	...	658	...	...	...	120	...	808
Rosha grass	...	850	...	...	...	...	...	850
Miscellaneous	...	3,153	...	...	...	22,472	...	51,202
Total	5	2,50,433	47	...	1,11,255	...	2,53,141		
<i>Protected Forests.</i>									
Kavvi	4,153	...	4,153	
Stones	2,756	...	2,756	
Grass and grazing	2,88,012	...	2,03,012	
Miscellaneous	...	614	...	...	...	15,850	...	17,054
Timors	1,427	...	1,427	
Total	...	614	...	...	...	2,99,438	...	2,99,082
Total Northern Circle.	5	2,51,047	47	...	1,22,103	...	1,63,223		

FORM No. 64.—*Outturn of Minor Forest Produce for the year 1935-36—contd.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Govern- ment agency		By purchasers		By free- grants		By right holders			
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
CENTRAL CIRCLE		Rs.		Rs.		Rs.		Rs.		Rs.
<i>Reserved Forest</i>										
Shirali Nirgudi	722	...	...	...	...	...	722
Stone rough	1,475	...	2,031	...	31,036	...	36,142
Stone dressed	258	...	446	...	...	...	704
Thomas	1,632	...	...	...	...	...	1,632
Anjan leaves	3,534	...	...	...	...	...	3,534
Tamarind fruit	177	...	...	...	...	...	177
Tarwad bark	721	...	...	...	...	...	721
Ghatbor fruit	1,851	...	...	...	...	...	1,851
Apta-Temburni leaves.	4,581	...	...	...	6,801	...	11,682
Rosha grass	739	...	...	...	...	...	739
Safed Musali	695	...	...	...	...	...	695
Grass and grazing	4,37,540	...	1,895	...	1,84,808	...	6,24,043
Bamboos	15,142	...	532	...	...	...	15,674
Mhowra flowers	2,148	...	...	...	270	...	2,418
Mhowra seed	1,350	...	...	...	200	...	1,550
Kadhai Gum	1,465	...	...	...	...	...	1,465
Earth	214	...	30	...	33,886	...	34,130
Reeds	181	...	...	...	8,000	...	8,181
Chilhar bark	940	...	...	...	...	...	940
Chhag leaves	10	...	...	...	1,400	...	1,410
Karwi	281	...	4	...	41,422	...	41,707
Babul pods...	1,788	...	...	...	...	...	1,788
Hirja	...	1,002	...	2,010	...	...	...	...	...	3,012
Shikekai	694	...	...	...	...	...	694
Hirja and Shikekai	5,000	...	...	...	...	...	5,000
Dry leaves	22	...	...	...	33,824	...	33,846
Mauure	1,720	...	...	...	1,720
Palm leaves	14	...	...	...	7,840	...	7,854
Tahal	53,564	...	53,564
Miscellaneous	2,638	...	83	...	98,204	...	1,00,925
Total	...	1,002	...	4,88,931	...	7,341	...	5,01,658	...	5,58,929

FORM No. 64.—*Outturn of Minor Forest Produce*
for the year 1935-36—contd.

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Government agency		By purchasers		By free-grants		By right holders			
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
CENTRAL CIRCLE—contd.		Rs.		Rs.		Rs.		Re.		Rs.
<i>Protected Forests</i>										
Grass and Grazing	20	...	...	...	...	...	20
Miscellaneous	279	...	...	...	...	...	279
Total	279	...	...	...	...	...	279
<i>Leased Forests</i>										
Grass and grazing	565	...	...	...	...	...	565
Thorns	2	...	...	...	...	...	2
Total	567	...	...	...	...	...	567
Total, Central Circle	...	1,002	...	1,89,777	...	7,341	...	5,61,635	...	9,99,775
SOUTHERN CIRCLE:										
<i>Reserved Forests</i>										
Bamboos	...	5	...	66,749	...	551	...	5,594	...	72,912
Grass and Grazing	81,314	...	2,825	...	3,38,840	...	4,25,609
Honey and wax	2,235	...	...	...	...	...	2,238
Harda	4,281	...	...	...	...	...	4,281
Shigekai	3,176	...	...	...	...	...	3,176
Harda and Shigekai	550	...	...	...	...	...	550
Tumri leaves	3,510	...	...	...	...	...	3,510
Tapping fees	514	...	...	...	...	...	514
Stones	5,182	...	1,405	...	731	...	7,318
Tarwad bark	1,370	...	...	...	...	...	1,370
Tali palms	1,524	...	122	...	...	...	1,644
Jandurh leaves	648	...	...	...	550	...	898
Thorns and Karvi	573	...	8	...	5,405	...	6,291
Halmaddi Dhup	635	...	...	...	...	...	635
Babul pods	575	...	...	...	...	...	575
Karanja seed	630	...	...	...	...	...	630
Metal	611	...	762	...	200	...	1,593
Earth and murrum	132	...	1,027	...	218	...	1,397
Stakes	250	...	34	...	30,635	...	30,949
Green leaves (Seppu)	24,019	...	24,019
Miscellaneous	...	58	...	3,910	...	410	...	820	...	5,198
Total, Southern Circle	...	103	...	1,80,553	...	7,137	...	4,16,712	...	6,04,037

FORM No. 64.—*Outturn of Minor Forest Produce
for the year 1935-36—concl'd.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Govern- ment agency		By purchasers		By free- grants		By right holders			
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
SIND CIRCLE		Rs.		Rs.		Rs.		Rs.		Rs.
<i>Reserved Forests</i>										
Babul and Kandi pods	474	...	11,632	...	...	...	...	...	12,106
Sar and reed grass	2,193	...	4	...	...	...	2,197
Forest seeds	545	...	...	...	...	...	545
Grazing	64,132	...	21,855	...	7,268	...	93,255
Miscellaneous	91	...	1,625	...	35	...	1,359	...	3,110
Total, Sind Circle	565	...	80,127	...	21,894	...	8,627	...	1,11,213
GRAND TOTAL, PRESI- DENCY	1,675	...	9,71,946	...	36,469	...	21,68,057	...	31,76,147

COMBINATION OF FORMS NOS. 65 AND 66.—*Account of Timber and depots, sold locally or otherwise disposed*

Name of Division.	Balance at commencement of the year in forests and sale depots.		Received during the year.
	1	2	3
	C. ft.	Rs.	C. ft.
NORTHERN CIRCLE			
Panch Mahals—			
Teak	1,130	654	30,312
North Thana—			
Teak	4,616	1,443	41,240
Injali	8,920	650	50,438
Total	12,936	2,093	91,678
East Thana—			
Teak	5,471	506	6,035
Injali	5,045	151	7,088
Total	10,516	657	13,143
West Thana—			
Teak	403	185	1,570
Injali	867	320	238
Total	1,300	505	1,808
East Nasik—			
Teak	.....	.....	.....
West Nasik—			
Teak	52,449	78,336	1,703
Injali	49	12	6
Total	52,498	78,348	1,709
Total, Timber			
{ Teak	64,159	81,124	80,880
{ Injali	14,281	1,133	57,770
Total	78,440	82,257	138,650
Fuel—			
Panch Mahals	3,859	156	63,597
North Thana	97,031	76	427,172
East Thana	41,901	60	36,702
West Thana	4,242	85	10,039
West Nasik	.....	.....	884
Total, Fuel	147,033	377	558,394
Total, Timber and Fuel	225,473	82,634	607,044

other produce cut or collected by Government Agency and brought to of during the year 1935-36.

Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale depots.		Difference in value.	
		7	8	In favour of the year.	Against the year.
5	6	7	8	9	10
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
31,442	28,948	2,494	1,781	1,127	.....
45,856	31,983	13,873	3,710	2,267	.....
53,758	43,027	15,731	1,229	579	.....
101,614	75,010	29,604	4,939	2,846	.....
11,526	6,534	4,992	463	.....	43
12,133	5,431	6,702	201	50	.....
23,659	11,965	11,694	684	50	43
2,063	1,594	469	235	50	.....
1,105	92	113	28	.....	292
3,168	2,586	582	263	50	292
.....
54,152	8,099	46,053	71,348	.....	6,988
55	6	49	12	.....	.....
54,207	8,105	46,102	71,360	.....	6,988
145,039	77,158	67,881	77,537	3,444	7,031
72,051	49,456	22,595	1,470	629	292
217,090	126,614	90,476	79,007	4,073	7,323
87,456	78,755	8,701	348	192	.....
524,203	343,922	180,281	141	65	.....
73,603	59,631	13,972	27	.....	33
14,281	5,989	8,292	166	81	.....
884	459	425	26	26	.....
705,427	483,756	216,671	708	364	33
922,517	615,370	307,147	79,715	4,437	7,356

COMBINATION OF FORMS NOS. 65 AND 66.—*Account of Timber and depots, sold locally or otherwise disposed*

Name of Division.	Balance at commencement of the year in forests and sale depots.		Received during the year.
	2	3	4
NORTHERN CIRCLE— <i>contd.</i>			
<i>Minor Forest Produce.</i>			
Bamboos—			
Panch Mahals ... ..	.....	.....	3
West Nasik ... ..	.....	.....	2
Total ...	.....	.....	5
Total, Northern Circle.	Timber and Fuel C.ft. ...	Rs. 225,473	697,044
	Minor Forest Produce Rs. ...	.....	5
CENTRAL CIRCLE.			
<i>Timber.</i>			
East Khandesh	16	16	4,798
North Khandesh	887	56	1,872
West Khandesh	3,784	504	9,431
Kolaba	1,110	278	925
Total ...	5,797	854	17,030
<i>Fuel.</i>			
East Khandesh	23,775	529	33,538
North Khandesh	13,025	270	2,500
West Khandesh	456	9	7,575
Poona ... ..	.....	.....	208,239
Kolaba	39,337	4,982	33,222
Satara	255,655	18,372	107,044
Total ...	332,248	24,162	392,118
<i>Charcoal.</i>			
Satara	22,725	2,045	61,153
<i>Bamboos.</i>			
East Khandesh ... ..	.....	.....	No. 900

* Net difference against Fund for Commencement

other produce cut or collected by Government Agency and brought to of during the year 1935-36—contd.

Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale depots.		Difference in value.	
		7	8	In favour of the year.	Against the year.
5	6	7	8	9	10
Rs.	Rs.	C. ft.	Rs.	Rs.	Rs.
3	3	.....	.....	.....	.....
2	2	.....	.....	.....	.....
5	5	.....	.....	.....	.....
922,517	615,370	367,147	79,715	4,437	7,356*
5	5	.....	.....	.....	.....
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
4,814	2,815	1,999	254	238	.....
2,759	649	2,110	361	305	.....
13,315	8,265	4,950	586	82	.....
2,039	1,135	904	226	.....	52
22,827	12,864	9,963	1,427	625	52
57,313	52,813	4,500	153	.....	346
15,825	300	15,525	316	46	.....
8,031	6,706	1,325	26	17	.....
203,239	207,794	445	18	18	.....
72,559	37,814	34,745	3,830	.....	1,152
362,699	143,714	218,985	15,889	.....	2,533
724,666	449,141	275,525	20,212	81	4,031
83,878	61,353	22,525	2,028	.....	17
No.	No.	.....	.....	.....	.....
900	900†	.....	.....	.....	.....

For year Rs. 2,919.
 ...ing.

COMBINATION OF FORMS NOS. 65 AND 66.—Account of Timber and depots, sold locally or otherwise disposed

Name of Division.	Balance at commencement of the year in forests and sale depots.		Received during the year.	
	1	2	3	
CENTRAL CIRCLE— <i>contd.</i>				
<i>Sandalwood Trees.</i>				
East Khandesh ... ..	.....	.....	48
Poona ... ..	.....	.....	874
Satara ... ..	.....	.....	130
Total ... ..	.....	.....	1,047
<i>Lac.</i>				
West Khandesh ... ..	.....	15	.....
<i>Hirā.</i>				
Poona ... ..	.....	.....	1,002
Total, Central Circle {	Timber and fuel C.ft. ...	360,770	Rs. 27,061	470,601
	Minor Forest Produce Rs.	15	2,049
SOUTHERN CIRCLE.				
<i>Timber.</i>				
Kanara, Northern Division—				
Teak	497,408	6,47,954	441,743	
Blackwood	6,995	6,999	3,497	
Junglewood	14,006	14,022	14,832	
Total	518,409	6,68,975	463,477	
Kanara, Eastern Division—				
Teak	181,977	2,72,966	119,655	
Blackwood	444	4,144	538	
Junglewood	11,567	5,784	4,827	
Total	197,988	2,83,194	125,021	
Kanara, Western Division—				
Teak	4,525	7,218	19,836	
Blackwood	1,424	2,010	133	
Junglewood	85	84	.....
Total	6,034	9,312	19,969	

* Net difference against

other produce cut or collected by Government Agency and brought to of during the year 1935-36—contd.

Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale depots.		Difference in value.	
		7	8	In favour of the year.	Against the year.
5	6			9	10
Rs.	Rs.	C. ft.	Rs.	Rs.	Rs.
43	43	.....	.....	.....	.....
874	874	.....	.....	.....	.....
130	130	.....	.....	.....	.....
1,047	1,047	.....	.....	.....	.....
15	15	.....	.....	.....	15
1,002	1,002	.....	.....	.....	.....
831,371	523,358	308,013	Rs. 23,667	Rs. 706	Rs. 4,100*
2,064	2,064	.....	.....	.....	15
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
942,156	482,837	459,319	6,36,009	.....	11,945
10,892	6,553	4,339	5,590	.....	1,409
28,838	13,793	15,045	18,808	4,786	.....
981,886	503,183	478,703	6,60,407	4,786	13,354
301,633	199,214	102,419	1,43,656	.....	1,29,310
4,982	4,787	195	146	.....	4,298
16,394	14,823	1,571	1,571	.....	4,213
323,009	218,824	104,185	1,45,373	.....	1,37,821
24,361	19,537	4,824	7,462	244	.....
1,557	1,491	66	94	.....	1,916
85	85	.....	.....	.....	84
26,003	21,113	4,890	7,556	244	2,000

the year Rs. 3,403.

COMBINATION OF FORMS NOS. 65 AND 66.—*Account of Timber and depots, sold locally or otherwise disposed*

Name of Division.	Balance at commencement of the year in forests and sale depots.		Received during the year.
	2	3	4
SOUTHERN CIRCLE—contd.			
<i>Timber—contd.</i>			
Belgaum Division—			
Teak	2,089	875	6,972
Blackwood ... ..	.....	.....	54
Junglewood	424	146	572
Total	2,513	1,021	7,598
Dharwar-Bijapur Division—			
Junglewood	297	475	.....
Total, Timber—			
Teak	685,999	9,29,018	591,212
Blackwood	12,863	13,453	4,522
Junglewood	26,379	20,511	20,231
Total	725,241	9,62,977	616,065
<i>Fuel and Charcoal.</i>			
Kanara, Northern Division ... ..	.....	.....	399
Kanara, Western Division ... ..	.....	.....	321
Total, Fuel and Charcoal ... ..	.....	.....	730
<i>Sandalwood.</i>			
Kanara, Northern Division ... ..	.....	160	1,585
Kanara, Eastern Division ... ..	.....	225	9,765
Belgaum Division ... ..	.....	60	24,070
Dharwar-Bijapur Division ... ..	.....	130	86,740
Total, Sandalwood ... ..	.....	575	1,22,160
<i>Bamboos.</i>			
Kanara, Eastern Division ... ..	.....	.....	5
<i>Other minor produce.</i>			
Kanara, Eastern Division ... ..	.....	.....	98
<i>Drift and Waifwood and confiscated Forest Produce.</i>			
Kanara, Northern Division ... ..	.....	.....	89
Kanara, Western Division ... ..	.....	8	56
Belgaum Division ... ..	.....	2	.....
Dharwar-Bijapur Division ... ..	.....	.....	2
Total, Drift and Waifwood and confiscated Forest Produce. ....	.....	10	97
Total, Southern Circle.		Rs.	
{ Timber and fuel C. ft.	725,241	9,62,977	616,795
{ Sandalwood and minor Forest Produce Rs. ... ..	.....	5-5	1,22,360

* No difference against the year Rs. 1,47,168.

other produce cut or collected by Government Agency and brought to of during the year 1935-36—contd.

Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale depots.		Difference in value.	
				In favour of the year.	Against the year.
5	6	7	8	9	10
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
9,061	7,451	1,610	1,833	964	.....
54	27	27	20	20	.....
996	551	445	100	.....	46
10,111	8,029	2,082	1,959	984	46
297	297	.....	.....	.....	475
1,277,211	709,039	568,172	7,88,906	1,208	1,41,255
17,485	12,558	4,627	5,850	20	7,623
46,610	29,549	17,061	20,479	4,786	4,818
1,341,306	751,446	589,860	8,15,295	6,014	1,53,696
399	399	.....	.....	.....	.....
331	136	195	110	110	.....
730	535	195	110	110	.....
Rs.	Rs.	.....	608	448	.....
1,745	1,137	.....	281	56	.....
9,900	9,709	.....	100	40	.....
24,130	24,080	.....	.....	.....	.....
86,870	86,870	.....	.....	.....	130
1,22,735	1,21,746	.....	989	544	130
5	5	.....	.....	.....	.....
98	98	.....	.....	.....	.....
39	39	.....	.....	.....	.....
64	64	.....	.....	.....	8
2	(a) 2	.....	.....	.....	2
2	2	.....	.....	.....	.....
107	107	.....	.....	.....	10
1,342,036	751,981	590,055	Rs. 8,15,405	Rs. 6,124	Rs. 1,53,696
1,32,945	1,21,956	.....	989	544	140*

(a) Errors in previous returns rectified.

COMBINATION OF FORMS NOS. 65 AND 66.—Account of Timber and depôts, sold locally or otherwise disposed

Name of Division.	Balance at commencement of the year in forests and sale-depôts.		Received during the year.
	2	3	4
	C. ft.	Rs.	C. ft.
SIND CIRCLE.			
<i>Timber.</i>			
Sukkur	75	9	800
Shikarpur ... ..	.....	.....	103
Larkana ... ..	.....	.....	677
Hyderabad	1,659	1,239	1,954
Karachi ... ..	.....	.....	.....
Total ...	1,734	1,248	3,534
<i>Fuel and Charcoal.</i>			
Sukkur ... ..	.....	.....	21,633
Shikarpur ... ..	.....	.....	1,180
Larkana	2,000	100	98,801
Hyderabad ... ..	.....	.....	3,000
Karachi	70	3	12,594
Total ...	2,070	103	137,208
<i>Minor Forest Produce (Seeds).</i>			
	Mds.		Mds.
Sukkur	40	80	251
Shikarpur	233	466	251
Larkana	90	180	348
Hyderabad	791	1,582	1,825
Karachi	51	102	1,573
Total ...	1,205	2,410	4,248
Total, Sind Circle ...	C. ft.		C. ft.
	3,804	1,351	140,742
Total, Sind Circle ...	Mds.		Mds.
	1,205	2,410	4,248
GRAND TOTAL--PRESIDENCY ...	C. ft.		C. ft.
	1,315,288	10,74,023	1,925,182
GRAND TOTAL--PRESIDENCY ...	Rs.		Rs.
	.....	600	1,24,414
GRAND TOTAL--PRESIDENCY ...	Sandalwood and Seeds. Pro-Mds.	1,205	Seeds. Mds. } 4,248
	Minor Forest Produce.	2,410	

* Net difference against the year Rs. 2,443.

† Net difference against the year Rs. 1,55,930.

other Produce cut or collected by Government agency and brought to of during the year 1935-36—concl'd.

Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale-depôts.		Difference in value.	
				In favour of the year.	Against the year.
5	6	7	8	9	10
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
875	875	.....	.....	.....	9
103	103	.....	.....	.....	.....
677	556	121	25	25	.....
3,613	3,613	.....	.....	.....	1,239
.....
5,268	5,147	121	25	25	1,248
21,633	21,633	.....	.....	.....	.....
1,180	1,180	.....	.....	.....	.....
100,801	95,801	5,000	245	145	.....
3,000	3,000	.....	.....	.....	.....
12,664	12,664	.....	.....	.....	3
139,278	134,278	5,000	245	145	3
Mds.	Mds.	Mds.			
291	289	2	4	.....	76
484	464	20	40	.....	426
438	330	108	216	36	.....
2,616	2,272	344	688	.....	894
1,624	1,574	50	100	.....	2
5,453	4,929	524	1,048	36	1,998
C. ft.	C. ft.	C. ft.			
144,546	139,425	5,121	270	170	1,251
Mds.	Mds.	Mds.			
5,453	4,929	524	1,048	36	1,398
C. ft.	C. ft.	C. ft.			
3,240,470	2,030,134	1,210,326	9,19,057	11,437	1,66,403
Rs.	Rs.	.....		
1,25,014	1,24,025	.....	989	544	155
Seeds. } Mds. } 5,453	Seeds. } Mds. } 4,929	Seeds. } Mds. } 524	1,048	36	1,398

FORM No. 67.—*Abstract showing value of stores, live stock, etc., 1935-36.*

Description.	Opening balance on 1st April 1935.	Receipts during the year.	Results of stores verification and revaluation (plus or minus).	Utilization during the year.	Depreciation, shortage, write-off, etc.	Closing balance on 31st March 1936.
1	2	3	4	5	6	7
GENERAL INSPECTION DIVISION.						
Other stores	Rs. 1,540	Rs. 390	.....	.....	Rs. 268	1,662
NORTHERN CIRCLE.						
1. Felled and sawn timber and other produce.	82,634	32,864	.....	33,817	1,966	79,715
2. Buildings and wells	3,39,234	8,167	.....	.....	21,371	3,26,030
3. Live stock	.....	.....	.....	.....	.....	.....
4. Instruments, plant and machinery.	1,663	463	.....	.....	222	1,904
5. Other stores	39,136	2,341	.....	.....	4,744	36,733
Total, Northern Circle	4,62,667	43,655	.....	33,817	23,323	4,44,353
CENTRAL CIRCLE.						
1. Felled and sawn timber and other produce.	27,076	32,554	.....	34,553	1,300	23,667
2. Buildings and wells	1,68,730	19,143	.....	199	11,065	1,76,579
3. Live stock	.....	.....	.....	.....	.....	.....
4. Instruments, plant and machinery.	3,513	501	.....	17	371	2,926
5. Other stores	24,325	1,548	.....	604	2,377	22,592
Total, Central Circle	2,22,644	54,046	.....	35,483	15,143	2,26,064
SOUTHERN CIRCLE.						
1. Felled and sawn timber and other produce.	9,63,562	11,93,464	.....	13,45,632	.....	8,16,394
2. Buildings and wells	3,29,531	5,337	.....	135	22,141	3,11,592
3. Live stock	43	.....	.....	.....	9	34
4. Instruments, plant and machinery.	(a) 58,566	1,015	.....	62	6,812	52,677
5. Other stores	(a) 24,405	645	.....	.....	3,189	21,561
Total, Southern Circle	13,75,107	12,05,461	.....	13,45,855	32,161	12,62,533

(a) Articles of the value of Rs. 1,677 coming under "Other stores" but hitherto included in "Instruments, plant and machinery" have been classified under the proper head.

FORM No. 67.—Abstract showing value of stores,
live stock, etc., 1935-36—contd.

Description.	Opening balance on 1st April 1935.	Receipts during the year.	Results of stores verification and revaluation (plus or minus).	Utilization during the year.	Depreciation, shortage, write-off, etc.	Closing balance on 31st March 1936.
1	2	3	4	5	6	7
SIND CIRCLE.						
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1. Felled and sawn timber and other produce.	3,647	9,677	.....	12,001	5	1,318
2. Buildings and wells ...	55,590	8,952	.....	.....	4,722	59,820
3. Live stock ...	125	.....	.....	.....	60	65
4. Instruments, plant and machinery.	1,975	124	.....	.....	115	1,963
5. Other stores ...	19,129	883	.....	.....	1,268	18,744
Total, Sind Circle ...	60,466	19,636	.....	12,001	6,171	81,930
FOREST ENGINEERING DIVISION.						
1. Felled and sawn timber and other produce.	.....	.....	.....	.....	.....	.....
2. Buildings and wells ...	.....	.....	.....	.....	.....	.....
3. Live stock ...	.....	.....	.....	.....	.....	.....
4. Instruments, plant and machinery.	37,023	218	.....	533	3,112	33,593
5. Other stores ...	3,074	.....	.....	53	278	2,608
					Depreciation Write off. 3	
					Depreciation Write off. 105	
Total, Forest Engineering Division.	40,097	218	.....	616	3,493	36,201
Grand Total, Presidency.	21,82,521	13,93,606	.....	14,27,776	85,554	19,92,797

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Panch Mahals Division	Surat Division	North Thana Division
NORTHERN CIRCLE				
REVENUE				
VIII.—Forest.				
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>				
a. Timber	13,244 12 0	.....	9,292 4 0
b. Firewood and charcoal	417 6 0	.....	191 13 0
c. Bamboos	3 0 0	.....	.....
d. Sandalwood
e. Grass and other minor produce.
Total I	13,665 2 0	.....	9,484 1 0
<i>II.—Timber and other produce removed from the forests by consumers or purchasers—</i>				
a. Timber	1,47,319 7 3	.....	7,82,899 10 0
b. Firewood and charcoal	2,527 9 3	.....	2,333 13 0
c. Bamboos	969 10 3	.....	3,291 11 8
d. Grazing and fodder grass	22,454 0 0	.....	16,852 6 0
e. Other minor produce	5,114 2 5	.....	1,759 15 6
f. Other items
g. Commutation fees
Total II	1,79,374 13 2	.....	8,07,131 7 9
<i>III.—Drift and waif wood and confiscated forest produce—</i>				
Total III	460 10 0	.....	4 10 0
<i>IV.—Revenue from forests not managed by Government—</i>				
a. Duty on foreign timber and other forest produce.
b. Revenue from shared and private forests.	266 10 4
Total IV	266 10 4
<i>V.—Miscellaneous—</i>				
a. Fines and forfeitures	918 13 0	.....	2,229 8 0
b. Refunds	33 15 6	.....	27 2 0
c. Other sources	1,092 3 0	19,815 10 3	.....	8,983 0 6
d. Recoveries of Establishment Charges.
Total V	1,092 3 0	20,768 6 9	.....	11,219 10 6
Grand Total Revenue	1,092 3 0	2,14,268 15 11	.....	8,23,106 7 7
Deduct—Refunds	23 5 0	.....	177 0 0
Net Revenue	1,092 3 0	2,14,245 9 11	.....	8,22,929 7 7

of the different Divisions for the financial year 1935-36.

East Thana Division	West Thana Division	East Nasik Division	West Nasik Division	Working Plans N. C. Division	Guechrau Officer, Thana Division	Total for 1935-1936
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	780 0 0	.....	7,885 7 6	.....	.....	81,202 7 8
1,936 5 9	84 8 0	.....	.....	.....	.....	2,610 0 9
.....	.....	.....	1 8 0	.....	.....	4 8 6
.....
.....
1,936 5 9	844 8 0	.....	7,886 15 6	.....	.....	33,817 0 3
2,67,715 6 6	3,04,079 1E 6	21,419 2 1	42,032 11 0	.....	.....	15,65,461 3 4
375 4 0	898 2 0	16,230 0 3	61 1 0	.....	.....	25,526 13 6
205 21 6	726 0 6	99 5 0	1,511 6 2	.....	.....	6,863 12 9
10,528 2 0	1,947 2 0	1,04,640 71 0	29,523 14 6	.....	.....	7,85,846 3 6
3103 5 6	4,559 10 6	7,962 21 8	4,600 7 4	.....	.....	28,397 5 11
.....
.....
2,51,925 14 6	3,12,480 14 6	1,50,451 13 0	77,730 8 1	.....	.....	18,09,035 7 0
50 2 0	84 5 0	2 6 6	131 15 0	.....	.....	734 0 6
50 2 0	84 5 0	2 6 6	131 15 0	.....	.....	734 0 6
.....
.....	1,031 1 0	.....	.....	.....	.....	7,297 11 4
.....	1,031 1 0	.....	.....	.....	.....	1,297 11 4
4,167 0 0	2,663 0 0	1,055 0 0	1,357 3 0	.....	.....	42,390 8 0
74 5 0	2 8 0	20 7 0	11 2 3	.....	.....	769 7 9
9,306 10 6	9,386 13 6	20,359 5 0	11,004 2 10	.....	.....	79,937 13 7
.....	429 6 0	.....	.....	.....	.....	439 6 0
13,547 15 6	12,491 11 6	21,434 13 0	12,373 8 1	.....	.....	92,937 3 4
2,97,460 5 9	3,26,932 8 0	1,71,882 15 6	93,121 14 5	.....	.....	19,37,871 6 5
196 14 6	671 9 0	236 2 0	221 3 0	.....	.....	7,522 2 6
2,97,263 7 3	3,26,260 15 0	1,71,658 13 6	97,898 11 8	.....	.....	19,36,349 3 11

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head	Direction	Panch Mahals Division	Surat Division	North Thana Division
NORTHERN CIRCLE				
REVENUE				
VIII.—Forest.				
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>				
a. Timber	13,244 12 0	.....	9,292 4 0
b. Firewood and charcoal	417 6 0	.....	191 13 0
c. Bamboos	3 0 0	.....	.....
d. Sandalwood
e. Grass and other minor produce.
Total I	13,665 2 0	.....	9,484 1 0
<i>II.—Timber and other produce removed from the forests by consumers or purchasers—</i>				
a. Timber	1,47,319 7 3	.....	7,82,893 10 0
b. Firewood and charcoal	2,527 9 3	.....	2,333 13 0
c. Bamboos	959 10 3	.....	3,291 11 8
d. Grazing and fodder grass	22,454 0 0	.....	16,852 6 0
e. Other minor produce	6,114 2 5	.....	1,759 15 6
f. Other Items
g. Commutation fees
Total II	1,79,374 13 2	.....	8,07,131 7 9
<i>III.—Drift and waif wood and confiscated forest produce—</i>				
Total III	460 10 0	.....	4 10 0
<i>IV.—Revenue from forests not managed by Government—</i>				
a. Duty on foreign timber and other forest produce.
b. Revenue from shared and private forests.	266 10 4
Total IV	266 10 4
<i>V.—Miscellaneous—</i>				
a. Fines and forfeitures	918 13 0	.....	2,229 8 0
b. Refunds	33 15 6	.....	27 2 0
c. Other sources	1,092 3 0	19,615 10 3	.....	8,963 0 6
d. Recoveries of Establishment Charges.
Total V	1,092 3 0	20,766 6 9	.....	11,219 10 6
Grand Total Revenue	1,092 3 0	2,14,268 15 11	.....	8,23,106 7 7
Deduct—Refunds	23 6 0	.....	177 0 0
Net Revenue	1,092 3 0	2,14,245 9 11	.....	8,22,929 7 7

of the different Divisions for the financial year 1935-36.

East Thana Division	West Thana Division	East Nasik Division	West Nasik Division	Working Plans N. C. Division	Guchharan Officer. Thana Division	Total for 1935-1936
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	780 0 0	.....	7,885 7 6	.....	.....	81,202 7 6
1,936 5 9	64 8 0	.....	.....	.....	.....	2,010 0 9
.....	.....	.....	1 8 0	.....	.....	4 8 6
.....
.....
1,936 5 9	844 8 0	.....	7,886 15 6	.....	.....	33,817 0 3
2,67,515 6 6	3,04,079 18 6	21,419 1 1	43,036 11 0	.....	.....	15,65,461 3 4
376 4 0	898 2 0	16,230 0 3	61 1 0	.....	.....	25,526 13 6
205 21 6	786 0 6	99 5 0	1,611 6 2	.....	.....	6,563 12 2
10,528 2 0	1,927 2 0	1,04,640 11 0	29,523 14 6	.....	.....	7,55,846 3 6
3,200 6 6	4,559 10 6	7,962 21 8	4,600 7 4	.....	.....	28,397 5 11
.....
.....
2,81,925 14 6	3,12,480 14 6	1,50,451 13 0	77,730 8 1	.....	.....	18,09,096 7 0
60 2 0	84 5 0	2 6 0	131 15 0	.....	.....	734 0 6
60 2 0	84 5 0	2 6 6	131 15 0	.....	.....	734 0 6
.....
.....	1,031 1 0	.....	.....	.....	.....	7,297 11 4
.....	1,031 1 0	.....	.....	.....	.....	7,297 11 4
4,167 0 0	2,663 0 0	1,055 0 0	1,367 3 0	.....	.....	12,390 8 0
74 5 0	2 8 0	20 7 0	14 2 3	.....	.....	769 7 9
9,306 10 6	9,986 13 6	20,389 5 0	11,908 2 10	.....	.....	79,937 13 7
.....	429 6 9	.....	.....	.....	.....	429 6 0
13,547 15 6	12,491 11 6	21,434 12 0	12,372 8 1	.....	.....	92,927 3 4
2,97,460 5 9	3,26,933 8 0	1,71,868 5 6	98,121 14 8	.....	.....	19,37,871 6 5
196 14 6	671 9 0	239 2 0	223 3 0	.....	.....	1,522 2 6
2,97,263 7 3	3,26,260 15 0	1,71,658 13 6	97,898 11 8	.....	.....	19,36,349 3 11

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Panch Mahals Division	Surat Division	North Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—B-FOREST				
B. CONSERVANCY, MAINTENANCE AND REGENERATION.				
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>				
a. Timber	3,809 3 0	.....	6,509 7 0
b. Firewood and charcoal
c. Bamboos
d. Sandalwood
e. Grass and other minor produce.
Deduct—Emergency cut
Total, B—I	3,809 3 0	.....	6,509 7 0
<i>II.—Timber and other produce removed from the forests by consumers or purchasers—</i>				
	2,793 0 0	.....	17,696 12 6
Total, B—II	2,793 0 0	.....	17,696 12 6
<i>III.—Maintenance, Repairs and Renewals—</i>				
a. Replacement, feed and upkeep of cattle.
b. Renewals or replacements of stores, tools and plant.	79 12 0	116 5 0	.....	78 8 3
c. Maintenance of and repairs to Railways, Roads, Bridges, non-residential buildings and other works.	291 0 6	.....	4,511 6 3
d. Upkeep of residential buildings constructed and maintained by the Forest Department.	579 12 0	.....	1,304 0 6
Total, B—III	79 12 0	987 1 6	.....	5,893 15 0
<i>IV.—Conservancy and Regeneration—</i>				
a. Maintenance of boundaries	526 10 0	.....	162 15 9
b. Reproduction	1,542 3 5	.....	5,827 14 6
c. Fire protection	1,441 11 11	.....	1,536 10 0
d. Other works	948 9 0	.....	.....
Total, B—IV	4,759 2 4	.....	7,527 8 3
<i>V.—Miscellaneous—</i>				
a. Rent of leased forests and payments to shareholders in forests managed by Government.
b. Law charges
c. Grain compensation allowance.
d. Clothing	25 14 0	998 11 5	.....	2,429 12 1
e. Other charges	15 12 0	.....	29 6 0
f. Famine fodder charges	19 6 6	.....	95 0 0
Total, B—V	25 14 0	1,033 13 11	.....	2,554 2 1
<i>VI.—Suspense—</i>				
a. Work advances
Total, B—VI
Total B-Conservancy, Maintenance and Regeneration.	105 10 0	13,382 4 9	.....	40,181 12 10

of the different Divisions for the financial year 1935-36—contd.

East Thana Division	West Thana Division	East Nasik Division	West Nasik Division	Working Plans N. C. Division	Gurcharan Officer, Thana Division	Total for 1935-1936
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
581 12 0	200 0 0	.....	1,203 9 0	.....	.....	12,303 15 0
1,897 12 3	.....	.....	.....	.....	.....	1,897 12 3
.....
.....
.....
2,479 8 3	200 0 0	.....	1,203 9 0	.....	.....	14,201 11 3
14,071 9 0	11,609 15 8	2,051 2 6	1,657 1 9	.....	.....	49,879 9 5
14,071 9 0	11,609 15 8	2,051 2 6	1,657 1 9	.....	.....	49,879 9 5
.....
703 6 6	245 10 6	82 12 6	11 4 0	.....	200 ⁰ 9 3	1,518 4 0
2,670 10 6	354 13 6	435 0 0	5,313 2 9	.....	.....	13,776 1 6
1,213 6 0	572 1 9	1,422 0 0	1,906 8 0	.....	.....	6,367 12 3
4,787 7 0	1,172 9 9	1,999 12 6	6,530 14 0	.....	200 9 3	21,668 1 9
249 12 0	156 12 0	166 8 0	266 6 6	.....	.....	1,529 0 3
2,366 9 6	2,688 3 9	2,307 9 0	830 5 0	.....	.....	15,922 13 2
2,299 0 0	912 11 9	433 10 0	88 4 0	.....	.....	6,711 15 3
.....	.....	29 12 0	250 12 0	.....	85 0 0	1,313 1 0
4,915 5 6	3,757 11 6	2,996 7 0	1,435 11 6	.....	85 0 0	26,476 14 1
1,371 14 0	.....	.....	.....	.....	.....	1,371 14 0
.....
2,266 13 5	2,095 13 6	1,642 7 8	1,196 8 3	10 8 4	12 15 10	10,579 8 6
49 6 0	43 10 3	116 11 6	25 6 9	.....	.....	280 4 8
.....	.....	.....	.....	.....	.....	114 6 6
3,688 1 5	2,139 7 9	1,759 3 2	1,321 15 0	10 8 4	12 15 10	12,446 1 6
.....
.....
29,941 15 2	18,879 12 8	8,806 9 2	12,049 4 0	10 8 4	298 9 1	1,23,555 6 6

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Panch Mahals Division	Surat Division	North Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—8-FOREST—contd				
C.—ESTABLISHMENTS				
I.—Pay of Officers—				
a. Conservators—Non-voted	22,093 0 0	.....	.....	.....
b. Superior officers plus personal and special pay—				
Non-voted	392 36 0	.....	.....	10,260 0 0
Voted	.....	5,933 10 0	.....	2,649 11 0
c. Leave salary—				
Non-voted	.....	.....	.....	883 3 0
Voted	.....	581 14 0	.....	.....
Deduct—				
Emergency cut (Non-voted)	-96 15 0	.....	.....	-70 0 0
Voted	.....	-25 8 0	.....	-12 8 0
Total, C.—I	{ Non-voted. 22,388 0 0	.....	.....	11,073 3 0
	{ Voted	6,428 0 0	.....	2,617 3 0
II.—Pay of Establishment—				
a. Subordinate forest and depot establishment plus personal and special pay.	.....	39,797 2 0	.....	53,430 9 0
b. Office establishment plus personal and special pay.	10,181 12 0	7,459 12 0	.....	10,617 15 0
c. Proficiency allowance	.....	.....	.....	301 0 0
d. Temporary establishment plus special pay.	.....	360 0 0	.....	.....
e. Leave salary	184 2 0	3,373 6 0	.....	4,454 5 0
Deduct—Emergency cut	-33 14 0	-85 1 0	.....	-126 3 0
Total, C.—II	10,342 0 0	50,904 10 0	.....	71,668 10 0
III.—Allowances, Honoraria, etc.—				
a. Compensatory allowances—				
Non-voted	.....	.....	.....	.....
Voted	.....	.....	.....	.....
b. Travelling allowance—				
Non-voted	3,341 2 0	.....	.....	1,909 4 0
Voted	704 11 0	7,863 14 0	.....	14,163 11 0
c. Plague allowance	.....	.....	.....	.....
d. House-rent allowance—				
Non-voted	.....	.....	.....	.....
Voted	.....	.....	.....	.....
e. Forest trainings	.....	.....	.....	.....
f. Grain compensation	.....	.....	.....	.....
g. Cost of passages granted under the Superior Civil Service Rules, 1924—				
Non-voted	948 2 0	.....	.....	126 0 0
Voted	.....	.....	.....	.....
h. Expenditure on medical attendance on British officers of the Superior Civil Services in India—				
Non-voted	.....	.....	.....	.....
Voted	.....	.....	.....	.....
Total, C.—III	{ Non-voted. 4,289 4 0	.....	.....	2,035 4 0
	{ Voted	7,04 11 0	7,863 14 0	11,158 11 0
IV.—Contingencies—				
a. Stationery	.....	267 6 0	.....	362 6 0
b. Carriage of tents and records	491 3 0	255 13 0	.....	591 6 9
c. Rents, rates and taxes	260 0 0	156 3 0	.....	12 10 6
d. Service postage and telegram charges.	552 14 9	899 11 0	.....	1,659 5 6
e. Sundries	453 9 9	441 11 3	.....	607 8 0
Total, C.—IV	2,007 11 6	1,980 12 3	.....	3,253 3 9
TOTAL, C.—ESTABLISHMENTS	{ Non-voted. 26,577 4 0	.....	.....	13,108 7 0
	{ Voted	13,054 6 6	57,187 4 3	88,693 11 9
GRAND TOTAL OF ALL EXPENDITURE UNDER 8-FOREST	39,837 4 6	80,509 9 0	.....	1,41,982 15 7

of the different Divisions for the financial year 1935-36—contd.

East Thana Division	West Thana Division	East Nasik Division	West Nasik Division	Working Plans N. C. Division	Guzbaran Officer, Thana Division	Total for 1935-36
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	.....	.....	.....	.....	22,093 0 0
5,240 7 0	1,230 0 0	.....	13,618 2 0	.....	.....	30,740 8 0
3,966 8 0	9,271 2 0	5,862 2 0	158 5 0	.....	8,508 7 0	36,332 5 0
.....	.....	.....	.....	.....	.....	883 3 0
.....	.....	.....	410 11 0	.....	.....	932 9 0
.....	-67 8 0	.....	-80 0 0	.....	.....	-305 7 0
-24 10 0	-15 0 0	-93 10 0	.....	.....	-35 0 0	-137 4 0
5,240 7 0	1,168 8 0	.....	13,589 2 0	.....	.....	53,408 4 0
8,941 14 0	9,259 3 0	5,838 15 0	560 0 0	.....	8,473 7 0	37,127 10 0
61,885 10 0	63,558 12 0	33,446 8 0	35,956 14 0	2,292 8 0	500 0 0	2,93,968 6 0
10,742 9 0	9,697 12 0	7,586 12 0	9,591 5 0	.....	.....	65,897 13 0
521 9 0	911 9 0	.....	612 11 0	187 8 0	2,918 1 0	5,562 6 0
5,478 7 0	3,788 10 0	2,215 13 0	2,987 12 0	.....	11 0 0	22,492 7 0
-121 14 0	-126 7 0	-62 4 0	-76 14 0	-8 12 0	-9 12 0	-660 7 0
73,506 5 0	77,830 4 0	43,186 13 0	43,971 12 0	2,441 4 0	3,519 5 0	3,27,370 15 0
.....	2,062 4 0	.....	.....	.....	765 0 0	2,827 4 0
748 6 0	218 11 0	.....	2,339 0 0	.....	.....	8,556 7 0
10,951 7 0	12,148 11 0	7,268 2 0	6,585 11 0	627 5 0	3,644 7 0	59,947 15 0
.....
.....	485 0 0	.....	.....	.....	.....	485 0 0
.....
.....	.....	.....	745 4 0	.....	.....	1,819 6 0
.....
748 6 0	218 11 0	.....	3,084 4 0	.....	.....	10,375 13 0
10,951 7 0	14,995 15 0	7,268 2 0	6,585 11 0	627 5 0	3,409 7 0	63,260 3 0
830 3 0	342 15 0	238 10 0	223 13 0	.....	.....	1,790 4 0
176 2 6	248 6 8	348 7 0	253 1 0	.....	223 14 0	2,527 5 9
.....	21 0 0	.....	108 13 0	.....	0 8 0	559 2 6
1,499 7 9	1,349 0 0	1,199 0 9	1,206 0 9	.....	224 14 3	8,892 6 9
357 0 0	486 0 6	244 15 0	432 5 9	22 11 9	69 9 3	3,095 7 3
2,302 13 3	2,447 6 0	2,031 0 9	2,231 1 6	22 11 9	517 13 6	16,864 10 3
5,988 13 0	1,387 3 0	.....	16,622 6 0	.....	.....	63,784 1 0
95,762 7 3	1,04,232 12 0	58,324 14 9	58,357 8 6	3,091 4 9	15,920 0 6	5,04,523 6 3
1,51,893 3 5	1,24,499 11 8	67,131 7 11	87,029 2 6	3,101 13 1	16,218 9 7	6,92,063 13 3

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Panch Mahals Division	Surat Division	North Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
52-A—CAPITAL OUTLAY ON FORESTS				
<i>I.—Forest Surveys</i> ... ..	.....	.....	.....	.....
<i>II.—Organization, Improvement and Extension of Forests—</i>				
<i>a. Demarcation</i> ... ..	.....	.....	.....	.....
<i>b. Forest Settlement</i> ... ..	.....	.....	.....	.....
<i>c. Working Plans</i> ... ..	.....	.....	.....	.....
<i>d. Plantations</i> ... ..	.....	.....	.....	.....
<i>e. Other works</i> ... ..	.....	.....	.....	.....
Total, II ... ..	.....	.....	.....	.....
<i>III.—Communications and Buildings—</i>				
<i>a. Roads and bridges (other than those in connection with Railways and Tramways).</i>	.....	.....	.....	.....
<i>b. Buildings</i> ... ..	.....	.....	.....	1,377 0 0
<i>c. Other works</i> ... ..	.....	.....	.....	303 0 0
Total, III ... ..	.....	.....	.....	1,580 0 0
<i>IV.—Railways and Tramways—</i>				
<i>V.—Live Stock, Stores, Tools and Plant—</i>				
<i>a. Purchase of cattle</i> ... ..	.....	.....	.....	.....
<i>b. Purchase of stores, tools and plant.</i>	20 0 0	29 10 0	.....	19 6 0
<i>c. Stores, tools and plant purchased in England.</i>	.....	.....	.....	.....
<i>d. Customs duty</i> ... ..	.....	.....	.....	.....
Total, V	20 0 0	29 10 0	.....	19 6 0
<i>VI.—Establishment</i> ... ..	.....	.....	.....	.....
<i>VII.—Suspense</i> ... ..	.....	.....	.....	.....
<i>VIII.—Investments in Government Commercial undertakings</i> ... ..	.....	.....	.....	.....
<i>IX.—Loss by Exchange</i> ... ..	.....	.....	.....	.....
<i>X.—Deduct—English Cost of Stores and Establishment</i> ... ..	.....	.....	.....	.....
<i>XI.—Deduct—Receipts and Recoveries on Capital Account</i> ... ..	.....	.....	.....	.....
TOTAL, 52-A—CAPITAL OUTLAY ON FORESTS	20 0 0	29 10 0	.....	1,599 6 0
SURPLUS OR DEFICIT	-38,765 1 6	+1,33,646 6 11	.....	+6,84,347 2

of the different Divisions for the financial year 1935-36—contd.

East Thana Division	West Thana Division	East Nasik Division	West Nasik Division	Working Plans N. O. Division	Gureharan Officer, Thana Division	Total for 1935-36
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
151 8 0	.....	.....	.....	.....	.....	151 8 0
.....
.....
.....
151 8 0	.....	.....	.....	.....	.....	151 8 0
.....	.....	.....	5,669 14 0	.....	.....	5,669 14 0
957 0 0	1,903 0 0	.....	1,399 0 0	.....	.....	5,536 0 0
60 0 0	.....	.....	.....	.....	.....	863 0 0
1,017 0 0	1,903 0 0	.....	7,068 14 0	.....	.....	11,568 14 0
.....
469 7 3	120 14 0	86 12 0	399 8 0	.....	.....	1,135 9 3
.....
.....
469 7 3	120 14 0	86 12 0	399 8 0	.....	.....	1,135 9 3
.....
.....
.....
.....
.....
.....
1,627 15 3	2,023 14 0	86 12 0	7,468 6 0	.....	.....	12,865 15 3
+1,63,942 4 7	+1,99,737 5 4	+1,04,440 9 7	+3,401 3 2	-3,101 13 1	-16,918 9 7	+19,31,499 7 5

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	East Khandesh Division	North Khandesh Division	West Khandesh Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
CENTRAL CIRCLE				
REVENUE				
VIII.—Forest				
I.—Timber and other produce removed from the forests by Government Agency—				
a. Timber	637 3 0	610 0 0	1,278 12 0
b. Firewood and charcoal	1,128 4 0	17 0 0	.....
c. Bamboos
d. Sandalwood	43 0 0	.....	.....
e. Grass and other minor produce.
Total, I	1,808 7 0	621 0 0	1,278 12 0
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—				
a. Timber	10,282 2 6	35,669 7 0	2,63,251 7 0
b. Firewood and charcoal	15,641 8 0	18,713 5 0	3,192 9 0
c. Bamboos	5,900 12 0	3,407 14 0	2,855 14 0
d. Grazing and fodder grass	1,11,265 12 6	71,864 4 6	95,693 3 0
e. Other minor produce	5,320 9 0	5,589 3 0	11,015 8 6
f. Other items
g. Commutation fees
Total, II	1,51,810 10 0	1,35,299 0 6	3,79,019 9 6
III.—Drift and waif wood and confiscated Forest Produce				
Total, III	125 14 0	108 3 9	910 13 0
IV.—Revenue from Forests not managed by Government—				
a. Duty on foreign timber and other forest produce	4,466 10 0	5,182 12 0	.....
b. Revenue from shared and private forests	7 5 0
Total, IV	4,466 10 0	5,182 12 0	7 5 0
V.—Miscellaneous—				
a. Fines and forfeitures	3,120 6 0	1,547 0 0	2,129 0 0
b. Refunds	18 0 0	98 0 0	45 4 0
c. Other sources	2,651 4 0	17,392 9 6	32,901 2 9	18,963 9 5
d. Recoveries of Establishment Charges
Total, V	2,651 4 0	20,530 15 6	33,776 2 9	21,137 13 8
GRAND TOTAL—REVENUE	2,651 4 0	1,78,742 8 6	1,74,967 3 0	4,01,654 5 2
Deduct—Refunds	93 12 0	109 10 0	1,040 5 0
NET REVENUE	2,651 4 0	1,78,648 11 6	1,74,877 9 0	4,00,614 0 2
EXPENDITURE				
B.—CONSERVANCY, MAINTENANCE AND REGENERATION				
I.—Timber and other produce removed from the Forests by Government Agency—				
a. Timber	100 0 0	329 12 0
b. Firewood and charcoal
c. Bamboos
d. Sandalwood
e. Grass and other minor produce.
Total, B—I	100 0 0	329 12 0
II.—Timber and other Produce removed from the Forests by consumers or purchasers				
Total, B—II	925 1 6	6,865 15 6	5,138 5 6
		925 1 6	6,865 15 6	5,138 5 6

of the different Divisions for the financial year 1935-36—contd.

Poona Division	Kolaba Division	Satara Division	Working Plans C. C. Division	Total for the year 1934-36
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	185 4 0	.....	.....	2,711 3 0
5,804 13 0	4,604 6 6	8,953 12 0	.....	20,502 3 6
873 8 0	.....	130 3 0	.....	1,046 11 0
1,001 15 3	.....	.....	.....	1,001 15 3
7,680 4 3	4,789 10 6	9,083 15 0	.....	25,262 0 9
25,852 8 0	1,28,944 10 0	13,740 13 6	.....	4,77,751 0 0
37,670 13 3	7,745 1 0	1,469 9 0	.....	77,637 13 3
503 7 9	14 13 0	64 10 0	.....	15,142 4 9
88,703 7 3	19,883 11 6	47,714 10 0	.....	4,37,925 0 9
6,626 6 6	3,951 5 0	6,905 12 0	.....	26,709 11 0
.....
1,49,611 10 2	1,59,539 8 6	69,885 6 6	.....	10,45,165 13 9
103 6 0	366 3 0	40 6 0	.....	954 13 9
103 6 0	366 3 0	40 6 0	.....	954 13 9
.....	.....	.....	.....	9,649 6 0
.....	5 6 8	5 14 8	.....	18 10 4
.....	5 6 8	5 14 8	.....	9,668 0 4
528 2 0	1,538 5 0	95 0 0	.....	8,937 13 0
10 9 0	50 0 0	1 3 0	.....	123 0 0
16,248 15 6	10,422 4 2	2,762 11 0	.....	1,00,642 8 7
.....	3,445 5 6	.....	.....	3,445 5 6
16,767 10 6	15,455 14 8	2,858 14 0	.....	1,13,178 11 1
74,162 15 6	1,80,156 11 4	81,874 8 2	.....	11,94,230 7 5
498 6 0	5,338 5 0	55 1 0	.....	7,055 3 0
1,73,714 9 6	1,74,818 6 4	81,819 7 2	.....	11,87,148 15 8
.....	.....	.....	.....	420 12 0
3,024 8 0	1,018 8 0	3,729 1 9	.....	7,772 1 9
.....
29 4 0	.....	.....	.....	29 4 0
3,053 12 0	1,018 8 0	3,729 1 9	.....	8,231 1 9
959 15 0	1,674 2 6	202 14 0	.....	15,166 6 0
369 15 0	1,674 2 6	202 14 0	.....	15,166 6 0

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	East Khandesh Division	North Khandesh Division	West Khandesh Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—contd.				
B—CONSERVANCY, MAINTENANCE AND REGENERATION—contd.				
III.—Maintenance, Repairs and Renewals—				
a. Replacement, feed and upkeep of cattle
b. Renewals or replacements of stores, tools and plant	100 7 0	85 0 0	186 1 0
c. Maintenance of and repairs to Railways, Roads, Bridges, Buildings and other works	3,003 11 3	4,876 8 0	2,770 6 6
d. Upkeep of residential buildings constructed and maintained by the Forest Department	657 6 6	341 4 0	378 12 0
Total, B—III	3,761 8 9	5,332 12 0	3,335 3 6
IV.—Conservancy and Regeneration—				
a. Maintenance of boundaries	93 0 0	47 8 0	106 8 0
b. Reproduction	25 4 0	774 0 0	2,304 10 0
c. Fire protection	583 12 0	1,412 14 0	6,788 1 0
d. Other works	594 8 0	311 8 0	924 14 0
Total, B—IV	1,246 8 0	2,545 14 0	8,424 1 0
V.—Miscellaneous—				
a. Rent of leased forests and payments to shareholders in forests managed by Government
b. Law charges
c. Grain compensation allowance
d. Clothing	1,137 12 0	1,007 8 11	1,769 0 6
e. Other charges	116 3 3	13 0 0	181 10 0
f. Famine fodder charges
Total, B—V	1,253 15 3	1,020 8 11	1,950 10 6
VI.—Suspense—				
a. Works advances
Total, B—VI
Total, B—CONSERVANCY, MAINTENANCE AND REGENERATION	7,187 1 6	15,835 2 5	19,178 0 6
C.—ESTABLISHMENTS				
I.—Pay of Officers—				
a. Conservators	25,291 8 0	.....	.....
b. Superior Officers	11,237 4 0	5,617 12 0
plus personal and special pay	410 0 0	9,373 11 0
c. Leave Salary	66 13 0	.....	10,545 7 0
Deduct—Emergency Cut.	116 6 0	72 8 0	758 11 0
	21 7 0	43 5 0
Total, C.—I	25,241 15 0	11,164 12 0	5,617 12 0
	410 0 0	11,258 13 0
II.—Pay of Establishment—				
a. Subordinate Forest and Depot Establishment plus personal and special pay	49,892 5 0	38,143 12 0	58,600 2 0
b. Office Establishment plus personal and special pay	11,985 1 0	10,586 9 0	11,731 7 0
c. Proficiency allowance	8,255 5 0	.....
d. Temporary Establishment plus special pay	88 1 0	978 1 0
e. Leave Salary	1,522 12 0	1,909 2 0	2,696 3 0
Deduct—Emergency Cut	48 8 0	88 0 0	84 8 0
Total, C.—II	13,369 5 0	52,257 1 0	49,988 13 0
	77,700 10 0

of the different Divisions for the financial year 1935-36—contd.

Poona Division	Kolaba Division	Satara Division	Working Plans C. C. Division	Total for the year 1934-35
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
178 8 9	650 0 0	63 3 9	.....	1,163 4 6
342 13 6	99 12 0	663 10 9	.....	11,746 14 0
250 0 0	723 14 0	382 2 0	.....	2,683 6 6
771 6 3	1,373 10 0	1,049 0 6	.....	15,593 9 0
.....
243 6 0	41 15 0	141 6 0	.....	673 11 0
348 0 0	3,043 3 0	417 0 0	.....	6,312 1 0
.....	136 0 0	256 12 0	.....	8,127 7 0
.....	413 13 0	28 6 0	259 13 9	1,532 14 9
491 6 0	3,634 15 0	843 8 0	259 13 9	17,446 1 9
.....
910 5 9	9,346 11 10	3,503 12 5	.....	13,060 14 0
.....
1,511 15 2	1,744 2 11	1,115 14 7	28 7 9	8,514 13 10
79 2 0	99 0 0	20 4 0	93 10 6	631 13 9
.....
4,100 6 11	11,189 14 9	4,639 15 0	52 2 3	22,207 9 7
.....
.....
6,776 14 2	18,991 2 3	10,464 7 3	312 0 0	78,644 12 1
.....
10,367 15 0	.....	13,521 3 0	6,169 15 0	25,331 8 0
6,266 0 0	10,196 13 0	.....	.....	46,914 1 0
.....
87 0 0	.....	43 8 0	1,218 0 0	36,790 15 0
68 7 0	38 0 0	.....	.....	1,334 13 0
.....	.....	.....	45 0 0	756 11 0
10,500 15 0	.....	13,478 11 0	.....	343 6 0
6,196 9 0	10,158 13 0	.....	7,342 15 0	171 3 0
.....
54,484 7 0	62,377 10 0	35,883 4 0	3,229 3 0	73,147 0 0
13,484 14 0	10,809 14 0	10,371 3 0	1,583 0 0	37,376 7 0
.....
243 4 0	468 10 0	157 8 0	296 7 0	2,911 14 0
6,461 2 0	6,525 11 0	989 9 0	579 0 0	37,707 1 0
106 2 0	106 1 0	77 11 0	20 14 0	666 4 0
74,567 9 0	60,375 12 0	47,323 13 0	6,656 12 0	4,11,219 11 0

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	East Khandesh Division	North Khandesh Division	West Khandesh Division
EXPENDITURE—concluded.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
C.—ESTABLISHMENTS—concluded.				
III.—Allowances, Honoraria, etc.—				
a. Compensatory Allowances	(Non-Voted) .....	.....	.....	.....
b. Travelling allowance	(Non-Voted) .....	.....	.....	754 6 0
	(Voted) .....	.....	.....	12,202 11 0
c. Plague allowance	.....	.....	.....	.....
d. House-rent allowance	(Non-voted) .....	.....	.....	.....
	(Voted) .....	.....	.....	.....
e. Forest training	.....	.....	.....	.....
g. Cost of passages granted under the Superior Civil Service Rules 1924	Non-Voted. ....	.....	.....	.....
Total. C.—III	(Non-Voted) .....	.....	.....	754 6 0
	(Voted) .....	.....	.....	12,202 11 0
IV.—Contingencies—				
a. Stationery	.....	.....	.....	301 9 0
b. Carriage of tents and records	.....	.....	.....	297 4 0
c. Rents, rates and taxes	.....	.....	.....	259 10 6
d. Service postage and telegraph charges	.....	.....	.....	1,499 6 0
e. Sundries	.....	.....	.....	625 8 6
Total. C.—IV	.....	.....	.....	2,983 6 6
V.—Establishment charges recoverable from other Governments, Departments, etc.—				
(a) Deduct—Amount recoverable from Raichur Estate, on account of pay of Ranger, etc.	.....	.....	-1,795 11 0	.....
Total. V	.....	.....	-1,795 11 0	.....
TOTAL C—ESTABLISHMENTS	(Non-Voted) .....	.....	.....	6,372 2 0
	(Voted) .....	.....	.....	1,04,145 5 6
GRAND TOTAL OF ALL EXPENDITURE UNDER (S Forest)				
46,273 5 3	.....	96,065 7 0	84,716 2 11	1,29,695 11 0
52-A—CAPITAL OUTLAY ON FORESTS				
I.—FOREST SURVEYS				
II.—Organization, Improvement and Extension of Forests—				
a. Demarcation	.....	.....	.....	263 10 6
Total. II	.....	.....	.....	263 10 6
III.—Communications and Buildings—				
a. Roads and bridges (other than those in connection with Railways and Tramways)	.....	.....	4,700 0 0	.....
b. Buildings	.....	4,299 13 3	5,866 10 0	4,926 11 9
c. Other works	.....	175 0 0	.....	.....
Total. III	.....	4,474 13 3	10,566 10 0	4,926 11 9
IV.—RAILWAYS AND TRAMWAYS—				
V.—Live Stock, Stores, Tools and Plant—				
b. Purchase of stores, tools and plant	.....	62 3 0	123 3 0	574 1 0
Total. V	.....	62 3 0	123 3 0	574 1 0
XI.—Deduct—RECEIPTS AND RECOVERIES ON CAPITAL ACCOUNT.				
.....	.....	.....	-120 4 0	.....
Total. 52-A—CAPITAL OUTLAY ON FORESTS	.....	4,537 0 3	10,569 9 0	5,701 6 3
SURPLUS OR DEFICIT	-33,622 1 3	+78,925 4 3	+79,591 13 1	+2,95,138 14

of the different Divisions for the financial year 1935-36—contd.

Poona Division	Kolaba Division	Satara Division	Working Plans U. C. Division	Total for the year 1934-35
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	196 14 0	867 13 0	.....	1,064 11 0
1,841 12 0	.....	1,966 3 0	1,268 7 0	10,120 9 0
10,769 5 0	14,435 15 0	6,563 12 8	1,224 5 0	64,932 1 8
.....
.....	.....	260 2 0	.....	260 2 0
.....
.....	.....	.....	933 5 0	4,564 4 0
1,841 12 0	.....	1,966 3 0	2,201 12 0	14,864 13 0
10,769 5 0	14,632 13 0	7,651 11 8	1,224 5 0	66,256 14 8
.....
313 7 0	427 2 0	225 9 0	3 6 0	1,832 12 0
348 5 6	278 5 0	263 10 0	143 4 6	2,196 7 0
59 9 0	140 0 0	61 8 0	29 0 0	672 14 6
1,573 13 3	1,278 13 6	1,290 4 6	51 6 0	8,953 5 0
321 13 0	240 9 6	324 6 9	112 4 0	3,079 14 9
2,614 13 9	2,364 15 0	2,065 5 3	329 4 6	16,735 5 3
.....
.....	.....	.....	.....	-1,795 11 0
.....	.....	.....	.....	-1,795 11 0
12,142 11 0	.....	15,444 14 0	9,344 11 0	57,851 13 0
94,148 4 9	1,07,532 5 0	67,040 14 11	7,320 5 6	5,29,733 10 11
1,13,067 13 11	1,25,423 7 3	82,990 4 2	17,077 0 6	6,91,270 4 0
.....
.....	27 12 6	.....	.....	291 6 6
.....	17 12 6	.....	.....	291 6 6
.....
.....	23 3 0	.....	.....	4,723 3 0
961 14 0	.....	1,014 9 7	.....	16,969 10 7
16 0 3	.....	147 0 0	.....	353 0 0
877 14 0	23 3 0	1,161 9 7	.....	22,030 13 7
.....
89 6 0	98 6 6	62 14 0	50 0 0	1,060 1 6
89 6 0	98 6 6	62 14 0	50 0 0	1,060 1 6
.....	.....	-16 15 6	-17 0 0	-154 3 0
967 4 0	149 6 0	1,267 8 7	33 0 0	23,329 2 7
+59,649 7 7	+48,245 9 1	-2,318 5 7	-17,110 0 6	+4,67,345 9 1

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head	Direction	Kanara Northern Division	Kanara Eastern Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.
SOUTHERN CIRCLE			
REVENUE—VIII FOREST			
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>			
a. Timber	8,92,080 0 3	2,64,880 6 6
b. Firewood and Charcoal
c. Bamboos	5 0 0
d. Sandalwood	1,136 11 0	9,609 5 4
e. Grass and other minor produce	97 13 0
Total, I	8,93,216 11 3	2,74,592 8 10
<i>II. Timber and other produce removed from the forests by consumers or purchasers—</i>			
a. Timber	1,52,297 13 9	25,699 12 9
b. Firewood and charcoal	16,238 6 0	1,950 0 10
c. Bamboos	42,026 1 10	5,227 5 0
d. Grazing and fodder grass	4,863 4 0	8,722 13 0
e. Other minor produce	3,311 10 0	3,218 3 6
f. Other items
g. Commutation fees
Total, II	2,18,537 3 7	44,818 3 1
<i>III.—Drift and waif wood and confiscated forest produce</i>			
	39 6 0	.....
Total, III	39 6 0	.....
<i>IV.—Revenue from forests not managed by Government—</i>			
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total, IV
<i>V.—Miscellaneous—</i>			
a. Fines and forfeitures	91 0 9	507 4 4
b. Refunds	43 1 0	46 10 8
c. Other sources	3,827 1 6	42,595 8 5	2,971 0 0
Total, V	3,827 1 6	42,729 10 2	3,524 15 0
Grand total, Revenue	3,827 1 6	11,54,522 15 0	3,22,935 10 11
Deduct—Refunds	50 0 0	89 0 0	1,661 7 3
Net Revenue	3,777 1 6	11,54,433 15 0	3,21,074 3 8
EXPENDITURE—8, FOREST			
B—CONSERVANCY, MAINTENANCE AND REGENERATION.			
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>			
a. Timber	2,92,012 9 9	48,509 12 11
b. Firewood and charcoal
c. Bamboos
d. Sandalwood	249 14 0	885 4 6
e. Grass and other minor produce
Deduct—Emergency cut ... Voted	-17 6 0	-1 4 0
Total, B-I	2,92,245 1 9	48,573 13 6
<i>II.—Timber and other produce removed from the forests by consumers or purchasers</i>			
	695 12 6	585 15 9
Total, B-II	695 12 6	585 15 9

of the different Divisions for the financial year 1935-36—contd.

Kanara Western Division	Belgaum Division	Dharwar- Bijapur Division	Working Plans Division. S. C.	Total for the year 1935-36
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
52,694 7 0	1,312 0 0	474 12 0	.....	11,91,441 9 9
62 8 0	.....	.....	.....	82 8 0
.....	23,568 13 10	86,870 1 10	.....	5 0 0
.....	.....	.....	.....	1,21,185 0 0
.....	.....	.....	.....	97 13 0
32,776 15 0	24,880 13 10	87,334 13 10	.....	13,12,811 14 9
69,202 7 11	79,208 11 2	193 8 0	.....	3,26,602 5 7
56,735 12 10	30,102 1 6	85,364 3 0	.....	1,90,390 8 2
1,313 0 3	13,522 8 0	4,745 1 0	.....	66,734 0 1
9,294 5 3	17,912 10 0	43,452 5 0	.....	84,045 5 3
3,372 12 6	9,582 13 6	9,974 14 0	.....	99,460 5 6
.....
.....
1,39,818 6 9	1,50,328 12 2	1,43,729 15 0	.....	6,97,232 8 7
64 4 0	.....	1 8 0	.....	105 2 0
64 4 0	.....	1 8 0	.....	105 2 0
.....
.....	.....	12 8 0	.....	12 8 0
.....	.....	12 8 0	.....	12 8 0
362 13 9	392 9 3	849 5 0	.....	2,193 1 1
2 11 0	11 8 0	28 13 0	.....	132 11 8
4,135 4 7	13,184 12 9	6,991 5 6	.....	73,105 0 9
4,490 13 4	13,588 8 0	7,269 7 6	.....	75,490 13 6
1,77,150 7 1	1,88,798 12 0	2,38,368 4 4	.....	20,85,592 14 10
99 5 0	439 12 0	154 12 0	.....	2,694 4 3
1,77,051 2 1	1,88,358 12 0	2,38,208 8 4	.....	20,82,896 10 7
.....
.....
25,929 10 0	100 12 0	920 14 9	.....	4,02,873 11 5
82 0 0	.....	.....	.....	82 0 0
4 14 0	3,879 11 6	11,343 7 0	.....	16,343 3 0
.....	.....	5 0 0	.....	5 0 0
.....	.....	.....	.....	-18 10 0
26,016 8 0	3,960 7 6	11,669 5 9	.....	4,29,285 4 5
.....
1,148 14 11	848 11 0	419 10 6	.....	3,699 0 8
1,148 14 11	848 11 0	419 10 6	.....	3,699 0 8

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Kanara Northern Division	Kanara Eastern Division
EXPENDITURE—contd.			
B.—CONSERVANCY, MAINTENANCE AND REGENERATION—contd.			
III.—Maintenance, Repairs and Renewals—			
a. Replacement, feed and up-keep of cattle		60 0 0	.....
b. Renewals or replacements of stores, tools and plant		149 4 0	419 2 0
c. Maintenance of and repairs to Railways, Roads, Bridges, non-residential Buildings and other works		55,690 0 1	7,752 3 3
d. Up-keep of residential Buildings constructed and maintained by the Forest Department		1,499 15 3	1,399 6 2
Deduct—Emergency cut—Voted		-0 12 0	.....
Total, B-III		57,328 7 4	9,570 11 5
IV.—Conservancy and Regeneration—			
a. Maintenance of boundaries		65 0 0	1,293 11 6
b. Reproduction	0 11 0	14,729 2 0	11,236 1 0
c. Fire protection		2,593 15 0	3,367 5 0
d. Other works		793 13 0	289 14 0
Total, B-IV	0 11 0	18,182 0 0	16,187 0 6
V.—Miscellaneous—			
a. Rent of leased forests and payments to shareholders in forests managed by Government .....		.....	.....
b. Law charges .....		.....	.....
c. Grain compensation allowance .....		.....	.....
d. Clothing	9 3 9	2,165 7 8	1,227 0 11
e. Other charges		10 6 0	142 6 6
f. Famine fodder charges .....		.....	.....
Total, B-V	9 3 9	2,175 13 8	1,369 7 5
VI.—Suspense—			
a. Work advances .....		.....	.....
Total, B-VI .....		.....	.....
Total, B-Conservancy, Maintenance and Regeneration	3 14 9	3,50,627 3 3	1,13,087 0 6
C.—ESTABLISHMENTS			
I.—Pay of Officers—			
a. Conservators	21,039 13 0	3 4 0	.....
b. Superior Officers plus personal and special pay		9,666 15 0	13,900 0 0
..... { Non-Voted		3,030 0 0	1,546 7 0
..... { Voted .....		.....	.....
c. Leave Salary .....		.....	.....
Deduct—Emergency cut	-36 11 0	-70 0 0	-70 0 0
..... { Non-Voted		-12 8 0	.....
..... { Voted .....		.....	.....
Total, C-I	21,003 2 0	9,670 3 0	12,130 0 0
..... { Non-Voted		3,017 8 0	1,546 7 0
..... { Voted .....		.....	.....
II.—Pay of Establishment—			
a. Subordinate Forest and Depot Establishments plus personal and special pay	1,730 0 0	69,135 10 0	49,912 15 0
b. Office Establishments plus personal and special pay	10,949 8 0	14,879 3 0	11,864 6 0
c. Proficiency allowance	120 0 0	.....	.....
d. Temporary Establishment plus special pay .....	.....	420 0 0	229 1 0
e. Leave Salary	270 2 0	5,293 1 0	4,279 2 0
Deduct—Emergency cut... Voted	-47 8 0	-165 15 0	-125 14 0
Total, C-II	13,023 2 0	89,557 15 0	65,558 10 0

of the different Divisions for the financial year 1935-36—contd.

Kanara Western Division	Belgaum Division	Dharwar- Bijapur Division	Working Plans Division, S. C.	Total for the year 1935-36
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	.....	.....	60 0 0
199 10 0	246 4 6	245 2 6	132 10 0	1,392 1 0
3,888 15 0	2,068 9 6	4,114 15 6	.....	73,434 11 4
1,249 8 10	1,016 10 0	570 12 0	.....	5,036 4 2
.....	.....	.....	.....	-0 12 0
5,333 1 10	3,321 8 0	5,330 14 0	132 10 0	80,932 4 7
150 0 0	11 11 0	97 12 0	.....	1,618 5 6
7,648 7 3	1,799 10 0	1,008 1 0	.....	36,302 0 3
659 7 0	693 14 0	302 14 0	.....	7,863 8 0
1 0 0	.....	233 12 0	4,607 8 0	5,926 1 3
8,378 14 3	2,711 6 0	1,642 7 0	4,607 8 0	51,709 14 9
.....	.....	65 0 0	.....	65 0 0
.....
1,513 8 0	1,704 10 5	1,327 3 7	11 15 7	7,953 1 11
64 0 0	86 12 0	40 0 0	140 0 9	487 8 6
.....
1,577 8 0	1,790 6 5	1,437 3 7	151 15 7	8,505 10 5
.....
.....
42,459 15 0	13,652 6 11	20,399 8 10	4,892 1 7	6,64,122 2 10
.....	.....	.....	.....	21,043 1 0
11,282 0 0	12,761 11 0	3,100 0 0	.....	49,010 10 0
4,093 12 0	.....	10,232 13 0	3,671 6 0	23,594 6 0
.....
.....
.....	-72 8 0	-70 0 0	.....	-319 5 0
-28 14 0	.....	-12 4 0	.....	-53 10 0
11,282 0 0	12,689 3 0	3,030 0 0	.....	69,734 8 0
4,044 14 0	.....	10,240 9 0	3,671 6 0	22,541 12 0
.....
63,638 15 0	68,850 2 0	48,096 15 0	3,763 10 0	2,63,525 3 0
13,274 11 0	9,264 4 0	10,858 1 0	836 10 0	61,925 11 0
120 0 0	.....	.....	.....	240 0 0
315 0 0	390 13 0	244 3 0	602 8 0	2,100 9 0
6,363 7 0	2,946 15 0	2,409 10 0	177 1 0	21,736 6 0
-769 7 0	-90 4 0	-103 2 0	-18 1 0	-719 13 0
83,543 0 0	66,261 14 0	61,505 11 0	5,368 12 0	3,64,808 0 0

FORM No. 6S.—*Summary of Revenue and Expenditure*

Budget Head	Direction	Karara Northern Division	Kanara Eastern Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—contd.			
C.—ESTABLISHMENTS—contd.			
<i>III.—Allowances, Honoraria, etc.—</i>			
a. Compensatory allow- (Non-Voted) ances. (Voted) ...	.....	360 0 0	.....
b. Travelling allow- (Non-Voted) ance. (Voted) ...	2,320 7 0 1,362 7 0	2,996 2 0 10,617 7 0	1,997 8 0 8,314 12 0
g. Cost of passages granted under the Superior Civil Service Rules, 1924. Non voted ...	912 11 0	.....	.....
Total, C.—III ... { Non-Voted	3,733 2 0	2,996 2 0	1,997 8 0
{ Voted ...	1,362 7 0	10,977 7 0	8,314 12 0
<i>IV.—Contingencies—</i>			
a. Stationery ...	.....	364 12 0	230 3 0
b. Carriage of tents and records ...	403 12 0	425 6 0	213 12 0
c. Rents, rates and taxes ...	1,033 8 0	15 6 0	5 3 9
d. Service postage and telegram charges ...	698 0 3	900 0 0	1,599 1 3
e. Sundries ...	515 1 0	549 10 3	174 11 0
Total, C.—IV ...	2,850 5 3	2,258 2 3	2,522 15 0
TOTAL, C.—ESTABLISHMENTS { Non-voted ...	24,736 4 0	12,596 5 0	14,127 8 0
{ Voted ...	17,234 14 3	1,05,511 0 3	77,942 12 0
GRAND TOTAL OF ALL EXPENDITURE UNDER (8) FOREST ...	41,975 1 0	4,89,034 8 6	2,05,157 4 6
52-A—CAPITAL OUTLAY ON FORESTS			
I. Forest Surveys ...			
<i>II.—Organization, Improvement and Extension of Forest—</i>			
a. Demarcation ...	.....	.....	.....
b. Forest Settlements ...	.....	.....	.....
c. Working Plans ...	.....	.....	.....
d. Plantations ...	.....	.....	.....
e. Other works ...	.....	.....	.....
Total, II ...	.....	.....	.....
<i>III.—Communications and Buildings—</i>			
a. Roads and bridges other than those in connection with Railways, and Tramways: ...	.....	.....	4,106 10 0
b. Buildings ...	.....	.....	109 0 0
c. Other works ...	.....	.....	.....
Total, III ...	.....	.....	4,305 10 0
IV—RAILWAYS AND TRAMWAYS ...			
<i>V.—Live Stock, Stores, Tools and Plant—</i>			
a. Purchase of cattle ...	.....	.....	.....
b. Purchase of stores, tools and plant ...	0 3 0	67 12 0	99 0 0
c. Stores, tools and plant purchased in England ...	.....	.....	.....
d. Customs duty ...	.....	.....	.....
Total, V ...	0 3 0	67 12 0	99 0 0
XI. Deduct—RECEIPTS AND RECOVERIES ON CAPITAL ACCOUNT ...			
.....	.....	.....	-0 1 0
Total 52-A—Capital Outlay on Forests ...	0 3 0	67 12 0	4,404 9 0
SURPLUS OR DEFICIT ...	-8,198 2 6	+5,65,331 10 6	+1,11,512 6 2

of the different Divisions for the financial year 1935-36—contd.

Kanara Western Division	Belgaum Division	Dharwar- Bijapur Division	Working Plans Division, S. C.	Total for the year 1935-36
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
1,413 5 0	1,920 0 0	521 7 0	.....	360 0 0
9,979 5 0	6,662 7 0	10,457 0 0	4,135 13 0	11,668 12 0
.....	.....	.....	.....	51,549 3 0
.....	.....	.....	.....	912 11 0
1,413 5 0	1,920 0 0	521 7 0	.....	13,581 8 0
9,979 5 0	6,662 7 0	10,457 0 0	4,135 13 0	51,909 3 0
.....
324 7 0	243 0 0	297 7 0	9 0 0	1,469 13 0
440 0 0	229 5 0	999 12 0	417 13 0	2,429 12 0
61 1 6	.....	.....	.....	1,118 3 3
1,593 9 3	1,183 10 3	1,441 1 6	100 0 0	8,026 0 6
299 15 6	583 7 0	930 4 0	76 7 0	3,104 7 9
2,724 11 3	2,249 6 3	2,938 8 6	603 4 0	16,147 4 6
.....
12,695 5 0	14,609 3 0	3,551 7 0	.....	82,376 0 0
1,00,311 14 3	75,193 11 3	85,141 12 6	13,769 3 0	4,75,405 3 6
1,55,467 2 3	1,02,455 5 2	1,09,093 12 4	18,661 4 7	11,21,543 6 4
.....
.....
115 0 0	.....	.....	.....	115 0 0
.....	.....	.....	56 4 0	56 4 0
.....
115 0 0	.....	.....	56 4 0	171 4 0
.....
.....
3,080 0 0	.....	.....	.....	7,186 10 0
.....	3,190 13 0	3,713 3 0	.....	7,103 0 0
.....
3,080 0 0	3,190 13 0	3,713 3 0	.....	14,289 10 0
.....
.....
50 14 0	30 0 0	173 11 0	4 8 8	496 0 0
.....
.....
50 14 0	30 0 0	173 11 0	4 8 0	426 0 0
.....
.....	.....	.....	.....	-0 1 0
3,215 14 0	3,320 13 0	3,886 14 0	60 12 0	14,886 13 0
+18,335 1 10	+2,682 9 10	+1,25,223 14 0	- 18,722 0 7	+9,46,163 7 3

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Sakur Division	Shikarpur Division
SIND CIRCLE			
REVENUE			
VIII—Forest			
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>			
a. Timber	79 0 0	7 0 0
b. Firewood and charcoal	796 8 0	47 3 0
c. Bamboos
d. Sandalwood
e. Grass and other minor produce	374 9 6	.....
Total, I	1,250 1 6	54 3 0
<i>II.—Timber and other produce removed from the forests by consumers or purchasers—</i>			
a. Timber	11,167 8 0	12,530 0 0
b. Firewood and charcoal	67,724 15 0	70,617 0 0
c. Bamboos
d. Grazing and fodder grass	7,440 13 0	7,554 7 0
e. Other minor produce	1,036 2 0	878 0 0
f. Other items
g. Commutation fees
Total, II	87,369 6 0	91,779 7 0
<i>III.—Drift and waif wood and confiscated forest produce</i>			
Total, III	64 8 0	123 0 0
<i>IV.—Revenue from forests not managed by Government—</i>			
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forest
Total, IV
<i>V.—Miscellaneous—</i>			
a. Fines and forfeitures	542 8 0	961 7 0
b. Refunds	0 5 0	.....
c. Other sources	1,118 11 0	14,309 2 5	9,966 3 9
Total, V	1,118 11 0	14,851 15 5	10,927 10 9
GRAND TOTAL—REVENUE	1,118 11 0	1,03,535 15 0	1,02,884 4 9
Deduct—Refunds	—14 8 0	—2,369 4 0
NET TOTAL REVENUE	1,118 11 0	1,03,521 7 0	1,00,515 0 9
EXPENDITURE			
8—Forest.			
B—CONSERVANCY, MAINTENANCE AND REGENERATION			
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>			
a. Timber	6 0 0	1 4 0
b. Firewood and charcoal	240 14 0	11 13 0
c. Bamboos
d. Sandalwood
e. Grass and other minor produce
Total, I	246 14 0	13 1 0
<i>II.—Timber and other produce removed from the forests by consumers or purchasers</i>			
Total, II	25 0 0	.....

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Sukkur Division	Shikarpur Division
EXPENDITURE—contd.			
<i>8—Forest—contd.</i>			
B.—CONSERVANCY, MAINTENANCE AND REGENERATION—contd.			
III.—Maintenance, Repairs and Renewals—			
a. Replacement, feed and upkeep of cattle	.....	.....	.....
b. Renewals or replacements of stores, tools and plant	35 13 9	90 10 0	11 0 0
c. Maintenance of and repairs to Railways, Roads, Bridges, non-residential Buildings and other works.	.....	969 8 0	406 0 0
d. Upkeep of residential buildings constructed and maintained by the Forest Department	.....	321 7 0	188 8 0
Total, III	35 13 9	1,390 9 0	605 8 0
IV.—Conservancy and Regeneration—			
a. Maintenance of boundaries	.....	492 1 0	630 2 0
b. Reproduction	.....	440 0 0	.....
c. Fire protection	.....	.....	.....
d. Other works	.....	.....	.....
Deduct—Emergency cut	.....	.....	.....
Total, IV	.....	932 1 0	630 2 0
V.—Miscellaneous—			
a. Rent of leased forests and payments to shareholders in forests managed by Government	.....	.....	.....
b. Law charges	.....	.....	.....
c. Grain compensation allowance	.....	.....	.....
d. Clothing	13 7 9	715 1 4	771 8 4
e. Other charges	.....	20 0 0	.....
f. Famine fodder charges	.....	.....	.....
Total, V	13 7 9	735 1 4	771 8 4
VI.—Suspense—			
a. Work advances	.....	.....	.....
Total, VI	.....	.....	.....
TOTAL, B.—CONSERVANCY, MAINTENANCE AND REGENERATION	49 5 8	3,319 9 4	2,020 3 4
C.—ESTABLISHMENTS			
I.—Pay of Officers—			
a. Conservators	Non-voted	23,133 14 0	.....
b. Superior Officers	Non-voted	.....	.....
plus personal and special pay.	Voted	9,800 0 0	7,063 4 0
	Non-voted	.....	.....
c. Leave Salary	Voted	.....	.....
	Non-voted	.....	.....
Deduct—Emergency cut	Non-voted	—97 13 0	—28 11 0
	Voted	.....	.....
Total, I	Non-voted	23,036 1 0	.....
	Voted	9,760 0 0	7,034 9 0
II.—Pay of Establishments—			
a. Subordinate Forest and Depot Establishment plus personal and special pay	.....	20,784 9 0	19,700 2 0
b. Office Establishment plus personal and special pay	9,466 13 0	7,356 8 0	6,945 3 0
c. Proficiency allowance	.....	.....	.....
d. Temporary Establishment plus special pay	.....	91 14 0	91 14 0
e. Leave Salary	928 14 0	2,227 0 0	793 9 0
Deduct—Emergency cut	Voted	—36 13 0	—43 12 0
Total, II	10,358 12 0	30,295 3 0	27,457 0 0

of the different Divisions for the financial year 1935-36—contd.

Tarkana Division	Hyderabad Division	Karachi Division	Working Plans Division.	Thar Parkar Division	Total for the year 1935-36
Rs. a. p.	Rs. a. p.	Rs. w. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
100 0 0	94 14 0	40 0 0	6 0 0	.....	387 5 9
492 13 0	436 1 0	559 14 0	.....	.....	2,864 4 0
300 7 0	360 5 0	392 13 0	.....	.....	1,563 8 0
893 4 0	891 4 0	992 11 0	6 0 0	.....	4,815 1 9
.....
154 3 0	504 5 0	1,057 1 0	.....	.....	2,827 13 0
.....	.....	.....	5,109 1 0	.....	440 0 0
.....	.....	.....	-11 12 0	.....	5,109 1 0
.....	.....	.....	.....	.....	-11 12 0
154 3 0	504 5 0	1,057 1 0	5,097 5 0	.....	8,365 1 0
.....
.....	4 14 0	2 5 0	.....	.....	7 3 0
625 10 10	792 9 0	874 0 6	.....	.....	3,792 5 9
.....	158 0 0	.....	.....	.....	178 0 0
.....
625 10 10	956 7 0	876 5 6	.....	.....	3,977 8 9
.....
.....
2,120 12 10	3,462 13 0	3,207 7 6	5,103 5 0	.....	19,283 8 6
.....
.....	.....	11,841 15 6	.....	.....	23,133 14 0
.....	.....	.....	.....	.....	11,841 15 0
6,321 4 0	8,400 2 0	1,940 2 0	5,621 5 0	.....	39,046 1 0
.....	248 0 0	.....	.....	.....	248 0 0
-25 1 0	-21 5 0	-75 0 0	-22 9 0	.....	-272 13 0
.....	.....	.....	.....	.....	-137 10 0
.....	.....	11,766 15 0	.....	.....	34,803 0 0
6,196 3 0	8,626 13 0	1,940 2 0	5,398 12 0	.....	39,156 7 0
.....
17,496 11 0	22,733 15 0	22,002 3 0	3,451 6 0	.....	1,06,163 14 0
6,468 3 0	7,686 13 0	7,755 5 0	863 2 0	.....	46,541 15 0
.....
686 13 0	236 7 0	91 14 0	606 2 0	1,144 0 0	2,948 15 0
242 7 0	2,894 0 0	915 4 0	435 15 0	.....	8,430 1 0
-47 12 0	-60 14 0	-51 0 0	-17 4 0	.....	-322 5 0
24,536 5 0	33,496 5 0	30,716 10 0	5,329 6 0	1,144 0 0	1,63,762 8 0

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head	Direction	Sukkur Division	Shikarpur Division
EXPENDITURE— <i>concl'd.</i>	Rs. a. p.	Rs. a. p.	Rs. a. p.
8— <i>Forest</i> — <i>concl'd.</i>			
C.—ESTABLISHMENTS— <i>concl'd.</i>			
III.— <i>Allowances, Honoraria, etc.—</i>			
a. Compensatory allowances	{ Non-voted ... 450 0 0 Voted ... 1,069 8 0 3,031 4 0	.....	.....
b. Travelling allowance	{ Non-voted ... 3,031 4 0 Voted ... 741 12 0	.....	.....
c. Plague allowances	.....	6,560 3 0	4,964 1 0
d. House-rent allowance	{ Non-voted ... Voted ...	.....	.....
e. Forest training	.....	.....	.....
f. Grain compensation	.....	.....	.....
g. Cost of passages granted under the Superior Civil Services Rules, 1924	..... Non-voted ... 1,326 11 0	.....	.....
Total, III	{ Non-voted ... 4,507 15 0 Voted ... 1,581 4 0	.....	.....
IV.— <i>Contingencies—</i>			
a. Stationery	.....	149 13 0	141 1 0
b. Carriage of books and records	554 1 0	252 0 0	270 0 0
c. Rents, rates and taxes	3,120 0 0	502 15 0	403 13 0
d. Service postage and telegram charges	666 2 6	501 15 9	416 5 0
e. Sundries	795 1 0	415 13 0	485 13 6
Total, IV	5,135 4 6	1,922 8 9	1,658 0 6
Total, C—ESTABLISHMENTS	{ Non-voted ... 27,844 0 0 Voted ... 17,325 4 6	.....	.....
GRAND TOTAL OF ALL EXPENDITURE UNDER 8—FOREST	45,218 10 0	47,527 14 9	41,143 10 6
62-A—CAPITAL OUTLAY ON FORESTS			
II.— <i>Organization, Improvement and Extension of Forests—</i>			
a. Demarcation	.....	.....	.....
b. Forest Settlements	.....	.....	.....
c. Working Plans	.....	.....	.....
d. Plantations	.....	.....	.....
e. Other works	.....	.....	.....
Total, II	.....	.....	.....
III.— <i>Communications and Buildings—</i>			
a. Roads and bridges (other than those in connection with railways and tramways).	.....	.....	.....
b. Buildings	.....	40 4 0	3,345 0 0
c. Other works	.....	.....	.....
Total, III	.....	40 4 0	3,345 0 0
V.— <i>Live Stock, Stores, Tools and Plant—</i>			
a. Purchase of cattle	.....	.....	.....
b. Purchase of stores, tools and plant	80 0 0	90 0 0	40 3 0
Total, V	80 0 0	90 0 0	40 3 0
TOTAL, 52-A—CAPITAL OUTLAY ON FORESTS	80 0 0	130 4 0	3,385 3 0
SURPLUS OR DEFICIT	-44,179 15 0	+52,543 10 11	+53,365 15 11

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1935-36—contd.*

Budget Head	General Direction Division	Forest Engineering Division	Total of Circles	Grand total, Presidency
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
REVENUE—VIII. FOREST				
<i>I.—Timber and other produce removed from the forest by Government Agency—</i>				
a. Timber	12,23,989 13 3	12,23,989 13 3
b. Firewood and charcoal	24,719 5 3	24,719 5 3
c. Bamboos	9 6 0	9 8 0
d. Sandalwood	1,22,231 11 0	1,22,231 11 0
e. Grass and other minor produce	1,664 9 9	1,664 9 9
Total, I	13,78,614 15 3	13,78,614 15 3
<i>II.—Timber and other produce removed from the forest by consumers or purchasers—</i>				
a. Timber	24,57,795 0 11	24,57,795 0 11
b. Firewood and charcoal	7,16,084 2 11	7,16,084 2 11
c. Bamboos	88,740 1 7	88,740 1 7
d. Grazing and fodder grass	7,71,947 5 6	7,71,947 5 6
e. Other minor produce	1,10,292 2 5	1,10,292 2 5
f. Other items
g. Commutation fees
Total, II	41,44,858 13 4	41,44,858 13 4
<i>III.—Drift and waif wood and confiscated forest produce</i>				
Total, III	3,412 1 3	3,412 1 3
<i>IV.—Revenue from forests not managed by Government—</i>				
a. Duty on foreign timber and other forest produce	9,649 6 0	9,649 6 0
b. Revenue from shared and private forests	1,323 13 8	1,323 13 8
Total, IV	10,978 3 8	10,978 3 8
<i>V.—Miscellaneous—</i>				
a. Fines and forfeitures	27,840 13 1	27,840 13 1
b. Refunds	129 6 5	620 8 5	649 14 10
c. Other sources	3,507 14 2	3,33,250 1 0	3,36,757 15 2
d. Recovery of establishment charges	3,874 11 6	3,874 11 6
Total, V	3,637 4 7	3,65,486 2 0	3,69,123 6 7
GRAND TOTAL, REVENUE	3,637 4 7	59,03,350 3 6	59,06,957 8 1
<i>Deduct—Refunds</i>	<i>-17,021 6 9</i>	<i>-17,021 6 9</i>
NET REVENUE	3,637 4 7	58,86,328 12 9	58,89,966 1 4

FORM No. 68.—Summary of Revenue and Expenditure of the different Divisions for the financial year 1935-36—contd.

Budget Head	General Direction Division	Forest Engineering Division	Total of Circles	Grand total, Presidency
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—8—FOREST.				
B.—CONSERVANCY, MAINTENANCE AND REGENERATION.				
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>				
a. Timber	11,962 0 2	4,16,268 0 5	4,28,270 0 7
b. Firewood and charcoal	10,772 1 0	10,772 1 0
c. Bamboos
d. Sandalwood	16,343 3 0	16,343 3 0
e. Grass and other minor produce	41 6 0	41 6 0
Deduct—Emergency cut	-7 4 0	-18 10 0	-25 14 0
Total, B-I	11,974 12 2	4,43,426 0 5	4,55,400 12 7
<i>II.—Timber and other produce removed from the forests by consumers or purchasers</i>				
Total, B-II	69,162 14 1	69,162 14 1
<i>III.—Maintenance, Repairs and Renewals—</i>				
a. Replacement, feed and upkeep of cattle	60 0 0	60 0 0
b. Renewals or replacements of stores, tools and plant	938 5 6	4,460 15 3	5,399 4 9
c. Maintenance of and repairs to Railways, Roads, Bridges, non-residential buildings and other works	4 12 0	1,01,821 14 10	1,01,826 10 10
d. Upkeep of residential Buildings constructed and maintained by the Forest Department	113 4 0	16,640 15 0	16,754 3 0
Deduct—Emergency cut	-0 12 0	-0 12 0
Total, B-III	1,056 5 6	1,22,983 1 1	1,21,059 6 7
<i>IV.—Conservancy and Regeneration—</i>				
a. Maintenance of boundaries	3,821 0 9	3,821 0 9
b. Reproduction	61,864 10 5	61,864 10 5
c. Fire protection	23,142 14 8	23,142 14 8
d. Other works	14,181 1 9	14,181 1 9
Deduct—Emergency cut	-11 12 0	-11 12 0
Total, B-IV	1,02,997 15 7	1,02,997 15 7
<i>F.—Miscellaneous—</i>				
a. Rent of leased forests and payments to shareholders in forests managed by Government	14,497 12 0	14,497 12 0
b. Law charges	7 3 0	7 3 0
c. Grain compensation allowance
d. Clothing	12 12 0	43 0 11	31,039 14 0	31,095 10 11
e. Other charges	96 0 0	1,477 10 9	1,573 11 3
f. Famine fodder charges	114 6 6	114 6 6
Total, B-V	12 12 0	199 1 5	47,196 14 3	47,388 11 8

FORM No. 68.—Summary of Revenue and Expenditure of the
different Divisions for the financial year 1935-36—contd.

Budget Head	General Direction Division	Forest Engineering Division	Total of Circles	Grand total, Presidency
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—contd.				
VI.—Suspense—				
a. Work advances	.....	.....	.....	.....
Total, B-VI	.....	.....	.....	.....
Interest on past Forest Capital outlay for 1935-36—Non-Voted	36,294 0 0	.....	.....	96,234 0 0
TOTAL B—CONSERVANCY, MAINTEN- ANCE AND REGENERATION	96,208 12 0	13,173 3 1	7,85,706 13 5	8,95,183 12 6
C—ESTABLISHMENT.				
A—GENERAL DIRECTION.				
I.—Pay of Officers—				
a. Chief Conservator and Conservators Non-Voted	30,732 14 0	.....	91,561 7 0	1,22,304 5 5
b. Superior Officers (Non-Voted plus Personal and special pay. { Voted	.....	13,961 11 0	1,35,507 2 6	1,52,468 13 0
Personal Assistant to the Chief Conservator—plus personal and special pay (voted)	.....	525 2 0	1,34,763 11 0	1,35,588 32 4
c. Leave Salary { Non-Voted	.....	.....	2,168 0 0	2,168 0 0
{ Voted	.....	.....	1,937 4 0	1,937 4 0
Deduct—Emergency cut. { Non-Voted	-134 1 0	-77 8 0	-1,143 13 0	-1,755 6 0
{ Voted	-26 4 0	-30 12 0	-499 11 0	-556 11 0
Total, I { Non-Voted	30,608 13 0	13,884 3 0	2,31,692 12 0	2,75,585 13 0
{ Voted	6,447 1 0	794 6 0	1,35,201 4 0	1,43,442 11 0
II.—Pay of Establishment—				
a. Subordinate Forest and Depôt Establishment—spe- cial and personal pay	.....	851 10 0	9,92,268 2 0	9,93,119 13 0
b. Office Establishment—special and personal pay	.....	.....	2,63,011 12 0	2,63,011 12 0
a. Office Establishment	12,435 11 0	.....	.....	12,435 11 0
c. Proficiency allowance	.....	.....	240 0 0	240 0 0
b. Temporary Establishment	.....	15,337 12 0	13,643 12 0	28,981 8 0
c. Leave Salary	.....	651 8 0	80,365 15 0	81,017 7 0
d. Deduct—Emergency cut	2,013 15 0	.....	.....	2,013 15 0
-52 4 0	-66 12 0	-2,368 7 0	-2,457 7 0	
Total, II	14,877 6 0	16,774 2 0	13,47,161 2 0	13,78,512 10 0

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1935-36—contd.*

Budget Head	General Direction Division	Forest Engineering Division	Total of Circles	Grand total, Presidency
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—concd.				
C—ESTABLISHMENT.				
A—GENERAL DIRECTION—concd.				
III.—Allowances, Honoraria, etc.—				
a. Compensatory Allowance.	{ Non-Voted. ....	.....	450 0 0	450 0 0
	{ Voted ...	27 8 0	6,696 6 0	6,923 14 0
b. Travelling Allowance.	{ Non-Voted.	3,883 7 0	2,348 14 0	35,162 1 0
	{ Voted ...	1,305 11 0	3,687 7 0	2,08,046 7 8
c. Plague Allowance	.....	.....	.....	.....
d. House-rent allowance	.....	.....	260 2 0	260 2 0
e. ....	.....	.....	.....	.....
f. Forestraining	.....	.....	485 0 0	485 0 0
d.	10,000 0 0	.....	.....	10,000 0 0
f. Grain compensation	.....	.....	.....	.....
g. Cost of Passages granted under the Superior Services Rules, 1924 (Non-Voted)	.....	739 14 0	8,623 0 0	9,302 14 0
e. Do. do. (Non-Voted)	658 12 0	.....	.....	658 12 0
Emergency cut (Non-Voted)	.....	.....	.....	.....
Total, III	{ Non-Voted ...	4,542 3 0	3,088 12 0	44,335 1 0
	{ Voted ...	11,333 3 0	3,857 7 0	2,16,287 15 8
IV.—Contingencies—				
a. Stationery	.....	8 12 6	5,776 8 0	5,785 4 6
b. Carriage of tents and records.	.....	695 12 0	9,570 12 9	10,266 8 9
Other non-contract contingencies	1,090 6 9	.....	.....	1,090 6 9
c. Rents, rates and taxes	.....	60 0 0	9,956 12 3	10,006 13 3
d. Service postage and telegram charges	.....	350 6 9	30,072 3 3	30,422 10 0
a.	707 7 9	.....	.....	707 7 9
e. Sundries	.....	154 11 6	12,696 5 3	12,851 0 9
Total, IV	.....	1,797 14 6	1,259 10 9	69,072 9 6
V.—Establishment charges recoverable from other Governments, Departments, etc.—				
a. Deduct amount recoverable from Raistingpur Estate on account of pay of Rangars, etc.	.....	.....	-1,795 11 0	-1,795 11 0
Establishment charges payable to Central Government	6,828 0 0	.....	.....	6,828 0 0
Total, V	6,828 0 0	.....	-1,795 11 0	5,033 5 0
TOTAL { C—ESTABLISHMENT	.....	39,688 8 9	20,41,256 1 2	20,50,944 9 11
{ A—GENERAL DIRECTION	76,134 8 6	.....	.....	76,134 8 6
Loss or gain by exchange.	{ Non-Voted ...	-749 0 0	.....	-749 0 0
	{ Voted ...	-13 0 0	.....	-13 0 0
GRAND TOTAL OF EXPENDITURE—				
S—FOREST	1,71,679 4 6	52,858 11 10	23,26,962 14 7	30,51,500 14 11

FORM No. 68.—Summary of Revenue and Expenditure of the different Divisions for the financial year 1935-36—concl'd.

Budget Head	General Direction Division	Forest Engineering Division	Total of Circles	Grand total, Presidency
52-A—CAPITAL OUTLAY ON FORESTS.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
I. FOREST SURVEYS ...	.....	.....	.....	.....
II.—Organization, Improvement and Extension of Forests—				
a. Demarcation ...	.....	.....	442 14 6	442 14 6
b. Forest Settlements ...	.....	.....	115 0 0	115 0 0
c. Working Plans ...	.....	.....	55 4 0	56 4 0
d. Plantations ...	.....	.....	.....	.....
e. Other works ...	.....	.....	.....	.....
Total, II ...	.....	.....	614 2 6	614 2 6
III.—Communications and Build- ings—				
a. Roads and bridges (other than those in connection with Railways and Tram- ways) ...	.....	.....	17,579 11 0	17,579 11 0
b. Buildings ...	.....	.....	35,788 10 7	35,788 10 7
c. Other works ...	.....	.....	741 4 0	741 4 0
Total, III ...	.....	.....	54,109 9 7	54,109 9 7
IV. RAILWAYS AND TRAMWAYS ...	.....	.....	.....	.....
V.—Live Stock, Stores, Tools and Plant—				
a. Purchase of cattle ...	.....	.....	.....	.....
b. Purchase of stores, tools and plant ...	33 3 0	.....	3,282 0 9	3,315 3 9
c. Stores, tools and plant pur- chased in England ...	.....	.....	.....	.....
d. Customs duty ...	.....	.....	.....	.....
Total, V ...	33 3 0	.....	3,282 0 9	3,315 3 9
VI. Establishment ...	.....	.....	.....	.....
VII. Suspense ...	.....	.....	.....	.....
VIII. Investments in Government Commercial Undertakings ...	.....	.....	.....	.....
IX. Loss by Exchange ...	.....	.....	.....	.....
X. Deduct—English Cost of Stores and Establishment ...	.....	.....	.....	.....
XI. Deduct—Receipts and Recover- ies on Capital Account ...	.....	-42 0 0	-154 4 0	-196 4 0
Total, 52-A—Capital Outlay on Forests ...	33 3 0	-42 0 0	57,851 5 10	57,842 11 10
GRAND TOTAL OF ALL EXPENDI- TURE	1,71,712 7 6	52,816 11 10	28,54,814 7 5	31,09,343 10 9
Surplus or deficit ...	-1,71,712 7 6	-49,179 7 3	30,01,514 5 4	27,80,622 6 7

Note.—Expenditure under B-VI (a) Work Advances has not been taken into account in arriving at the amounts of surpluses or deficits, as this expenditure is recoverable.

FORM No. 69

FORM NO. 69.—Revenue received and

Division	Particulars	Outstandings at commencement of year	Value of Sales and other Revenue during year
1	2	3	4
NORTHERN CIRCLE		Rs. a. p.	Rs. a. p.
Direction ...	Timber and other forest produce.	.....	1,092 3 0
Panch Mahals ...	Do. ...	29,143 12 0	2,04,365 15 0
North Thana ...	Do. ...	3,601 10 0	5,46,490 13 7
East do. ...	Do. ...	3,846 14 0	3,21,696 0 9
West do. ...	Do. ...	1,312 15 0	3,27,081 10 0
East Nasik ...	Do. ...	230 0 0	1,80,385 14 5
West do. ...	Do. ...	4,433 2 6	1,35,150 12 4
Gurcharan Office, Thana...	Do. ...	.....	.....
Total, Northern Circle...		42,568 5 8	19,95,163 5 1
CENTRAL CIRCLE			
East Khandesh ...	Timber and other forest produce and revenue from various sources.	759 2 9	1,78,333 5 0
North do. ...	Do. ...	884 0 0	1,74,218 3 0
West do. ...	Do. ...	100 0 0	4,03,475 5 2
Poona ...	Do. ...	1,390 0 0	1,75,418 9 6
Kolaba ...	Do. ...	1,493 0 0	1,82,941 11 4
Satara ...	Do. ...	7,010 0 0	78,390 0 2
Direction Division ...	Do. ...	.....	2,651 4 0
Total, Central Circle...		11,636 2 9	11,95,326 6 11
SOUTHERN CIRCLE			
Direction ...	Various sources ...	.....	3,827 1 6
Kanara, N. D. ...	Various sources, Timber and other forest produce.	1,07,771 8	11,53,473 6 1
.. E. D. ...	Do. ...	7,837 13 5	3,60,226 5 5
.. W. D. ...	Do. ...	21,670 14 9	1,79,565 6 1
Belgaum Division ...	Do. ...	13,208 5 5	1,78,435 12 4
Dharwar-Bijapur Division. Working Plans ...	Do. ...	4,011 4 10	2,42,078 10 0
Total, Southern Circle...		1,54,499 13 1	21,17,606 9 5

Outstandings on account of Revenue during 1935-36.

Total	Amount realised during year	Balance due to the Department at end of year	Remarks
5	6	7	8
Rs. a. p.	Rs. a. p.	Rs. a. p.	
1,092 3 0	1,092 3 0	.....
2,33,509 11 0	2,14,245 9 11	19,264 1 1	
8,29,092 7 7	8,27,929 7 7	1,163 0 0	
3,25,542 14 9	2,97,263 7 3	28,225 9 6	(b) Written off under proper authority.
	52 14 0		
3,28,394 9 0	3,26,260 15 0	2,113 10 0	
	40 0 0		
1,80,515 14 5	1,71,659 13 6	8,857 0 11	
	97,898 11 8		
1,39,583 14 10	36 4 0	41,645 15 3	
.....	
30,37,731 10 7	19,36,349 8 11	1,01,273 4 8	
	(b) 109 2 0		
1,79,092 8 6	1,78,648 11 6	350 0 0	(a) Refunds.
	93 13 0		
1,75,102 3 0	1,74,877 9 0	115 0 0	
	109 10 0		
4,03,575 5 2	4,00,614 0 2	1,921 0 0	
	1,040 5 0		
1,75,506 9 6	1,73,714 9 6	2,642 10 0	
	448 0 0		
1,84,434 11 4	1,74,818 6 4	4,278 0 0	
	5,338 5 0		
85,300 0 2	81,819 7 2	3,425 8 0	
	65 1 0		
2,651 4 0	2,651 4 0	.....
12,06,962 9 8	11,87,443 15 8	12,733 2 0	
	(a) 7,065 8 0		
3,927 1 6	3,777 1 6	.....	(a) Refunds.
	50 0 0		
12,61,244 12 9	11,54,433 15 0	1,05,320 12 3	(b) Written off under proper authority.
	89 0 0		
	1,401 1 6		
3,68,064 2 10	3,21,074 3 5	44,378 11 11	
	1,867 7 3		
	749 12 0		
2,31,236 4 10	1,77,951 2 1	23,370 4 6	
	99 5 0		
	715 9 3		
1,91,644 1 9	1,89,358 12 0	2,539 6 2	
	439 12 0		
	306 3 7		
2,46,089 14 10	2,38,203 8 4	7,404 12 0	
	154 12 0		
	336 14 6		
.....	
22,72,106 6 6	20,62,898 10 7	1,83,013 14 10	
	(a) 2,694 4 3		
	(b) 3,499 8 10		

FORM No. 69.—Revenue received and

Division 1	Particulars 2	Outstandings at commencement of year 3	Value of Sales and other Revenue during year 4
		Rs. a. p.	Rs. a. p.
SIND CIRCLE			
Direction	... Various sources	.....	1,118 11 0
Sukkur	... Timber and other forest produce.	29,692 12 0	97,790 15 0
Shikarpur	... Do.	31,570 13 0	83,811 3 9
Larkana	... Do.	17,980 2 6	74,136 1 0
Hyderabad	... Do.	76,773 13 0	2,52,279 14 0
Karachi	... Do.	29,584 14 0	1,39,463 9 0
Working Plans	... Various sources	.....	65 0 0
Thar Parkar	... Timber and other forest produce.	.....	432 14 0
	Total, Sind Circle...	1,85,602 6 6	6,39,098 3 9
	GRAND TOTAL, PRESIDENCY...	3,94,306 11 10	59,47,194 9 2

Outstandings on account of Revenue during 1935-36—concl'd.

Total	Amount realised during year	Balance due to the Department at end of year	Remarks						
5	6	7	8						
Rs. a. p.	Rs. a. p.	Rs. a. p.							
1,118 11 0	1,118 11 0							
1,27,483 11 0	1,03,521 7 0	23,962 4 0							
1,15,382 0 9	1,00,515 0 9	14,867 0 0							
92,116 3 6	74,788 3 6	17,328 0 0							
3,29,053 11 0	2,89,567 15 0	59,485 12 0							
1,52,048 7 0	1,29,527 11 4	22,520 11 6							
65 0 0	65 0 0							
432 14 0	432 14 0							
8,24,700 10 3	6,79,936 14 7	1,44,763 11 8							
63,41,501 5 0	{ <table style="display: inline-table; vertical-align: middle;"> <tr> <td>(a)</td> <td>58,56,323 12 9</td> </tr> <tr> <td>(b)</td> <td>9,779 12 3</td> </tr> <tr> <td></td> <td>3,608 10 10</td> </tr> </table> }	(a)	58,56,323 12 9	(b)	9,779 12 3		3,608 10 10	4,41,754 1 2	(a) Refunds. (b) Written off under proper authority.
(a)	58,56,323 12 9								
(b)	9,779 12 3								
	3,608 10 10								

FORM No. 70.—*Outstandings and Liabilities on account*

Division	Department Debtor		
	At commence- ment of the year	Recoveries in cash and value of supplies and work done during the year	At close of the year
	2	3	4
NORTHERN CIRCLE	Rs. a. p.	Rs. a. p.	Rs. a. p.
Disbursers.			
East Thana Division	95,363 13 6	95,363 13 6
West Thana do.	86,624 0 0	86,624 0 0
North Thana do.	1,01,752 6 0	1,01,752 6 0
Panch Mahals do.	61,305 0 0	61,305 0 0
East Nasik do.	47,432 0 0	47,432 0 0
West Nasik do.	55,120 0 0	55,120 0 0
Total, Northern Circle	4,47,597 3 6	4,47,597 3 6
CENTRAL CIRCLE			
Disbursers.			
Working Plans 4	117 4 0	117 4 0
Poona	82,044 7 0	82,044 7 0
Satara	51,172 8 0	51,172 8 0
Kolaba	87,731 12 6	87,731 12 6
North Khandesh	64,221 0 0	64,221 0 0
East do.	71,532 12 3	71,532 12 3
West do.	96,119 8 6	96,119 8 6
Total, Central Circle	4,52,939 4 3	4,52,939 4 3

of Contractors and Disbursers for the year 1935-36

Department Creditor			Balance due		Remarks
At commencement of the year	Payments made during the year	At close of the year	To Department (outstandings)	By Department (liabilities)	
5	6	7	8	9	10
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
14 7 6	95,350 0 0	95,361 7 6	0 10 0	...	
.....	86,624 0 0	86,624 0 0	.....	...
43 8 0	1,01,770 4 0	1,01,813 12 0	61 6 0	...	
.....	61,305 0 0	61,305 0 0	.....	...
67 8 0	47,387 0 0	47,444 3 0	12 8 0	...	
.....	55,129 0 0	55,129 0 0	9 0 0	...	
115 7 6	4,47,565 4 0	4,47,630 11 6	83 8 0	...	
.....	117 4 0	117 4 0	.....	...
.....	82,050 1 0	82,050 1 0	5 10 0	...	Divisional Forest officer's acknowledgement has been called for and is awaited.
.....	51,172 8 0	51,172 8 0	.....	...
16 12 6	87,715 0 0	87,731 12 6	.....	...
.....	64,221 0 0	64,221 0 0	.....	...
156 12 0	71,400 8 3	71,557 4 3	24 5 0	...	
79 0 0	96,053 15 6	96,134 15 6	15 7 0	...	
252 8 6	4,62,732 4 9	4,62,984 13 3	45 9 0	...	

FORM No. 70.—*Outstandings and Liabilities on account of*

Division	Department Debtor		
	At commencement of the year	Recoveries in cash and value of supplies and work done during the year	At close of the year
1	2	3	4
SOUTHERN CIRCLE			
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Disbursers.			
Working Plans		6,349 4 0	6,349 4 0
Forest Engineer		7,946 0 0	7,946 0 0
Dharwar-Bijapur		77,455 0 0	77,455 0 0
Belgaum		74,120 0 0	74,120 0 0
Kanara, Northern Division		2,17,160 7 0	2,17,160 7 0
Kanara, Eastern Division		1,08,073 15 0	1,08,073 15 0
Kanara, Western Division		1,02,918 10 9	1,02,918 10 9
Total, Disbursers ... ..	.....	5,94,023 4 9	5,94,023 4 9
Contractors.			
Belgaum		2,947 13 0	2,947 13 0
Kanara, Northern Division		12,000 0 0	12,000 0 0
Kanara, Western Division		8,632 0 0	8,632 0 0
Total, Contractors ... ..	.....	23,579 13 0	23,579 13 0
Total, Southern Circle ... ..	.....	6,17,603 1 9	6,17,603 1 9

Contractors and Disbursers for the year 1935-36—contd.

Department Creditor			Balance due		Remarks 10
At commence- ment of the year	Payments made during the year	At close of the year	To Depart- ment (out- standings)	By Depart- ment (liabilities)	
5	6	7	8	9	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
.....	6,349 4 0	6,349 4 0	.....	.....
.....	7,946 0 0	7,946 0 0	.....	.....
.....	77,455 0 0	77,455 0 0	.....	.....
.....	74,121 4 0	74,121 4 0	1 4 0	.....
12 0 0	2,17,148 7 0	2,17,160 7 0	.....	.....
195 6 0	1,07,878 9 0	1,08,073 15 0	.....	.....
.....	1,02,918 10 9	1,02,918 10 9	.....	.....
207 6 0	5,93,817 2 9	5,94,024 8 9	1 4 0	.....
4,947 13 0	.....	4,947 13 0	2,000 0 0	.....
2,136 8 0	12,000 0 0	14,136 8 0	2,136 8 0	.....
.....	8,632 0 0	8,632 0 0	.....	.....
7,084 5 0	20,632 0 0	27,716 5 0	4,136 8 0	.....
7,291 11 0	6,14,449 2 9	6,21,740 13 9	4,137 12 0	.....

FORM No. 70.—*Outstandings and Liabilities on account of*

Division	Department Debtor		
	At commencement of the year	Recoveries in cash and value of supplies and work done during the year	At close of the year
1	2	3	4
SIND CIRCLE			
Advances to disbursers.			
Hyderabad	29,428 5 0	29,428 5 0
Karachi	16,530 1 5	16,530 1 5
Larkana	23,142 11 0	23,142 11 0
Shikarpur	24,414 1 0	24,414 1 0
Sukkur	29,895 1 7	29,895 1 7
Working Plan	669 10 0	668 10 0
Total	1,24,078 14 0	1,24,078 14 0
Advances to Contractors under "B Forest—B-VI."			
Karachi	36 0 0	36 0 0
Shikarpur	60 0 0	60 0 0
Total	96 0 0	96 0 0
Total, Sind Circle	1,24,174 14 0	1,24,174 14 0
Grand Total, Presidency	16,42,314 7 6	16,42,314 7 6

Contractors and Disbursers for the year 1935-36—concl'd.

Department Creditor			Balance due		Remarks
At commence- ment of the year	Payments made during the year	At close of the year	To Depart- ment (out- standings)	By Depart- ment (liabilities)	
5	6	7	8	9	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	10
101 6 0	29,410 0 0	29,511 6 0	83 1 0	.....
462 10 7	16,095 0 0	15,557 10 7	27 9 2	.....
54 1 0	23,200 0 0	23,254 1 0	111 5 0	.....
43 8 5	24,423 3 0	24,466 11 5	52 10 5	.....
1 1 7	29,894 0 0	29,895 1 7	.....	.....
.....	668 10 0	668 10 0	.....	.....
662 11 7	1,23,693 13 0	1,24,253 8 7	274 10 7	.....
.....	36 0 0	36 0 0	.....	.....
.....	60 0 0	60 0 0	.....	.....
.....	96 0 0	96 0 0	.....	.....
662 11 7	1,23,786 13 0	1,24,449 8 7	274 10 7	
5,322 6 7	16,38,533 8 6	16,46,855 15 1	4,541 7 7	

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FOREST ADMINISTRATION REPORT OF THE PROVINCE OF BOMBAY FOR THE YEAR 1937-38.

CHAPTER I.

CONSTITUTION OF STATE FORESTS.

I. ALTERATIONS IN AREA—(FORMS NOS. 51 PARTS I AND II).

The changes in forest areas were as follows :—

Class of Forest.	Area on 1st April 1937.	Added during the year.	Excluded during the year.	Area on 31st March 1938.	
	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	
Reserved ..	{ In charge of Forest Depart- ment ..	10,579	124	135	10,568
	{ In charge of Revenue De- partment ..	1,639	13	16	1,636
Protected ..	{ In charge of Forest Depart- ment ..	162	2	4	160
	{ In charge of Revenue De- partment ..	618	1	2	617
Total ..	12,998	140	157	12,981	

The areas added and excluded comprise :—

	Square miles.	
	Gain.	Loss.
Afforestation and disforestsments ..	1	18
Transfer from one Circle to another ..	92	92
Transfer from one Division to another ..	45	45
Errors corrected ..	2	2
Total ..	140	157

Net loss—17 square miles.

Out of the total area added to and excluded from the forests an area of 92 square miles, which constituted the Mandvi Sub-Division of the Central Circle, was transferred to the Northern Circle, where with the addition of the Baragaon Dangs, it formed the present Surat Sub-Division. An area of 31 square miles in the Northern Circle and about 14 square miles in the Southern Circle were transferred from one Division to another.

The disforestsments were mostly in favour of cultivation, the Northern Circle contributing 8 square miles, Central Circle 5 square miles and the Southern Circle 4 square miles. Out of the area disforested in the Northern Circle 6 square miles were disforested in the Panch Mahals and the rest were chiefly woodland plots from the Thana Gurcharans. In the Central Circle, Poona, Satara, Ahmednagar and Sholapur Districts mainly shared the disforestsments of about 5 square miles. Forest areas given out for cultivation on temporary leases in the Belgaum Division, and subsequently disforested after cultivation had been established, formed the bulk of the disforestsments in the Southern Circle. The settlement of the frontier line between the British and Portuguese territories and the corrections in areas of forest survey numbers as directed by the Forest Settlement Officer, Kanara, account for a loss of over half a square mile.

2. FOREST SETTLEMENTS--(FORM No. 52).

The total area pending settlement at the commencement of the year was 369 acres to which were added 3 square miles and 392 acres. Out of this area 1 square mile and 82 acres were finally settled. No expenditure was incurred on this account.

3. DEMARCATION--(FORM No. 53).

25 miles (1 mile in the Northern Circle and 24 miles in the Southern Circle) of new boundaries were demarcated artificially at a cost of Rs. 200 and 23,249 miles of existing boundaries (including those between British territory and that of Goa, Mysore, Bhor State and the Kathi and Nala Estates) were repaired at a cost of Rs. 3,554. The total length of boundaries at the close of the year was 37,932 miles.

No effect was given to the settlement of the boundary between the Baroda State and British territory as the proposal to make the existing cleared fire-line on the Deomogra reserve boundary--the final inter-state boundary--is still under the consideration of Government.

4. FOREST SURVEYS--(FORM No. 54).

No survey work was undertaken during the year.

The expenditure on the constitution of state forests was :—

	1936-37.	1937-38.
	Rs.	Rs.
Northern Circle	49	43
Central Circle	15	380
Southern Circle	510	157

The expenditure shown against the Central Circle was due to the purchase of malki land for forest in the Poona Division.

CHAPTER II.

MANAGEMENT OF STATE FORESTS.

I. REGULATION OF MANAGEMENT.

(a) *Preparation and control of regular working plans.*

Preparation—(Form No. 55).—No new working plans other than those referred to in last year's report were sanctioned by Government.

(1) The working plan for the Thana Gurcharans was completed and submitted by the Gurcharan Officer, Thana, to the Chief Conservator, but it was returned to the Conservator for modification as the proposals made in the plan entailed too drastic a reversal of the present policy of Government and also the entertainment of considerable extra establishment.

(2) The revised working plan for the Panch Mahals forests was completed after the close of the year.

(3) The preliminary report of the consolidated working plan for all forests in the West Khandesh Division and the unorganised scrub areas of the Sakri, Pimpalner and Dhulia Talukas was approved by the Chief Conservator subject to the remarks made by the Collector of West Khandesh on the limitation of the number of cattle to be admitted in each ranch. The necessary data were collected by the end of the year.

(4) A scheme for the exploitation of forests in the Akrani was drawn up by the Divisional Forest Officer, Working Plans, Central Circle. Under this scheme besides concentrating on fire protection 3 coupes are to be worked—one at either end of the Dara-Dhadgaon Road and the third near the Narbada river.

(5) Under instructions from the Conservator of Forests, Central Circle, the Divisional Forest Officer, Working Plans, Central Circle, prepared a special scheme for rotational grazing in the Shirpur East Range to reduce the high incidence of grazing caused by the influx of cattle from the surrounding Indian States.

(6) The revision of the Gund Working Plan continued during the year and is reported to be nearing completion. Certain details in connection with the revision of the Kalinadi slopes working plan were discussed and settled. Field work in regard to (1) the Mundgod Teak Pole Plan and (2) the consolidated plan for all the teak pole and scrub forests of the Dharwar-Bijapur Division was completed.

(7) A cent. per cent. enumeration of sandalwood trees in the forest of Sirsi-Siddapur Range of the Kanara Eastern Division was undertaken with a view to drawing up a working plan for these sandalwood tracts. Enumeration over an area of about 27 square miles was completed.

Besides the above (1) the working plan for the Peint and adjoining forests and (2) the working plan for the Igatpuri forests are under revision.

The revision of the working plan for the Tulshi forests is still held up pending decision by the Bombay Corporation of the question of including in it the municipal forests in the Vihar catchment area.

(b) Control of working plans.

The prescriptions of the existing sanctioned working plans were followed as far as possible, unavoidable deviations being regularised with the sanction of competent authorities. Several coupes remained unsold, due as usual to lack of demand, poor quality of tree growth, inaccessibility or long lead.

While the teak pole coupes of the Satpuda working plan fetched better than normal prices, the coupes in the Timber Working Circle of the same plan remained unsold for lack of communications.

Exploitation in the Pasture working circle of the Poona Working plan is confined to the removal of dead, dying and fallen trees. In sub-block F of only 4 out of 22 felling series, dead, dying and fallen trees were sold. The remaining series either did not contain trees fit for removal or in the absence of demand were not sold.

The prescribed casuarina coupe of the year in the Alibag Range of the Kolaba Division was not clear-felled owing to extensive erosion. Selected trees from coupes 14, 15 and 16 Pt. were, however, sold as fishing stakes and fetched a handsome price.

2. COMMUNICATIONS AND BUILDINGS.

(a) Roads and bridges.

New earth roads 105 $\frac{3}{4}$ miles in length were constructed in the Central Circle and some additions were made to the Mastinalla causeway in the Southern Circle. The total expenditure incurred on new works in all the circles was Rs. 9,306 against Rs. 17,087 in the previous year. Repairs to about 1,100 miles of roads and bridle paths were carried out at a cost of Rs. 39,140 and in addition Rs. 41,241 were paid to the M. & S. M. Railway Co., as maintenance charges of the Alnawar-Dandeli Railway, the expenditure on similar items in the previous year being Rs. 40,863 and Rs. 37,983 respectively.

The following roads in the Northern Circle, which have been administratively and technically sanctioned, have been proposed to be financed from the Petrol Fund and will be undertaken on the allotment of the requisite funds :—

- (1) Ozar-Saiwan Road (30·90 miles).
- (2) Khardi-Parali (Tembha-Parali Section 7 miles).
- (3) Washala-Dolkhamb Road (7·35 miles).

In East Khandesh the construction of the following roads has been proposed as they will open up new forests and contribute thereby an addition of Rs. 3,000 to 4,000 to the annual revenue :—

- (1) Mohomandali-Haripur,
- (2) Haripur-Wagzira, and
- (3) Usnali-Gadria.

These roads will be undertaken as and when funds permit.

An estimate amounting to Rs. 41,277 for carrying out essential repairs to Hatgad-Wani Road administratively approved by Government awaits technical sanction and allotment of funds.

(b) Buildings.

The total expenditure on the construction of new buildings in all the circles was Rs. 32,025 against Rs. 28,233 in the previous year. Repairs to existing buildings were carried out at a cost of Rs. 17,547 as compared with Rs. 19,584 in the previous year.

Though the expenditure on new works shows an increase, the need for housing accommodation for forest subordinates is still keenly felt in certain bad climate localities.

(c) Miscellaneous (other works).

A total expenditure of Rs. 1,226 was incurred on new works such as wells and compounds, etc., as against Rs. 1,030 in the previous year. The existing works of this nature were repaired at a cost of Rs. 3,763 as against Rs. 3,423 in the previous year.

3. PROTECTION OF FORESTS.

(a) General protection (Form No. 57).

The following table compares the number of forest offences during the year under report with those of 1936-37 and the average of the past 3 years :-

Class of offence.	1937-38.				1936-37.	Average of 1934-35 to 1936-37.
	Northern Circle.	Central Circle.	Southern Circle.	Total.		
I. Injury to forest by fire ..	795	502	262	1,559	1,457	1,600
II. Unauthorised felling or removal of forest produce.	5,467	5,409	1,338	12,214	12,388	11,651
III. Unauthorised grazing ..	2,539	2,185	403	5,127	5,664	5,169
IV. Other offences ..	1,296	919	374	2,589	2,720	2,733
Total, 1937-38 ..	10,097	9,015	2,377	21,489	..	....
Total, 1936-37 ..	9,421	10,100	2,699	....	22,220	....
Average of 1934-35 to 1936-37 ..	9,537	8,706	2,910	....	..	21,153

The total number of offences showed a decrease of 740 offences compared with the figures of last year, and the Central and Southern Circles contributed thereto. The Northern Circle showed an increase of 676 offences. This increase occurs mainly in East Nasik and to a lesser extent in East Thana and West Nasik.

Injury by fire.—The Northern and Central Circles recorded an increase of 131 and 12 cases while the Southern Circle showed a decrease of 41 cases as compared with the previous year. Causes of forest fires have been discussed under "Protection from fire".

Unauthorised fellings.—There was on the whole a decrease of 174 cases from last year. It is shared by the Central and Southern Circles which showed a decrease of 366 and 236 cases, which is partially counter-balanced by an increase of 428 cases in the Northern Circle.

The increase in the Northern Circle is attributed to the fact that by the abolition of grazing fees, the subordinates in the Nasik Divisions were able to devote more time to patrolling work. The Divisional Forest Officer, East Thana, reports that looting of forest is carried out on such a heavy and organized scale along the border line of the Ahmednagar district that these forests will be depleted of valuable stock, if not totally ruined, unless efforts are made to check this. While searching for stolen material as many as 1,350 pieces were discovered and attached involving 201 persons in the Nasik district and 41 in the Nagar district.

The decrease in the Central Circle is contributed by all the divisions except Satara and Kolaba. The increase in the latter divisions is attributed to greater vigilance on the part of the subordinates.

The warning given to the Bhils in Jalgaon through the District Superintendent of Police, East Khandesh, had a good effect and resulted in a decrease in the number of offences under this head in East Khandesh.

The four depôts opened in the Kolaba Division as a preventive measure against illicit cutting of fuel and wood for agricultural implements were continued during the year but at two depôts only was there anything like a good demand. Few agriculturists availed themselves of the opportunity of purchasing the wood for agricultural implements and fuel at these depôts.

During the year there were 2 cases of assault on forest subordinates—one in the Chowk Round and the other in Pen Range of the Kolaba Division. The former case resulted in acquittal for want of sufficient evidence, while in the latter the accused was let off with a warning. Two similar cases of the previous year—one in which a forest guard was assaulted and the other in which the forest guard committed the offence of causing simple hurt to a villager were decided in the Southern Circle. The former ended in the acquittal of the villager for want of sufficient evidence and in the latter the forest guard concerned was bound over for good behaviour for one year.

The decrease in unauthorised fellings reported in the Southern Circle is attributed to the fact that much time of the subordinates was taken up with the refunding of grazing fees, which interfered with effective patrolling and to the effect of instruction in villages on the value of forests to the community and on the extent of the privilege rules, resulting in a better appreciation on the part of the villagers of these important matters.

Unauthorised grazing.—As compared with the previous year the number of offences under this head shows a decrease of 537 cases. All the circles contributed thereto. The number of cases in the Satara Division showed an increase which was due to the misunderstanding (which has since been removed) of the people that all forest areas were thrown open to all cattle on the abolition of grazing fees. The reasons for the decrease in the number of cases in other areas were that

(1) warnings were first issued before recording the offences and (2) the various lectures and other propaganda work done by the officers and the staff had a good effect in lessening the tendency of the people to graze their cattle illicitly.

Other offences.—The number of offences under this head on the whole shows a decrease of 131 cases as compared with that of the previous year. The Northern Circle showed an increase of 156 cases but it is more than counterbalanced by a decrease of 287 cases in the Central Circle, the figure for the Southern Circle remaining unchanged. The increase in the Northern Circle was shared by East Thana, West Thana and East Nasik Divisions. As the majority of the cases under this head consist of breaches of transit rules, no reasons for the variations can be ascribed.

Two hundred and seventy-seven new cases were taken to court during the year. 273 cases (including 151 pending from the last year) were decided and of these 246 or 90 per cent. ended in conviction of the offenders.

Out of 19,648 cases compounded during the year, compensation amounting to Rs. 69,278 was recovered in 16,328 cases or an average of Rs. 4.2 per case as against Rs. 4.5 in the last year. In 761 cases the offenders were let off with a warning and 3,375 cases remained undetected.

(b) *Fire Protection.*

The following table compares the results of two fire seasons, 1st June 1936 to 31st May 1937 and 1st June 1937 to 31st May 1938. These figures do not tally with those in Form No. 58 which are for the financial year ending 31st March 1938 :—

Circle.	Fire season of	Area attempted to be protected.	Failures.	Area actually protected.	Percentage of area actually protected.	Cost.	Cost per square mile protected.
		Sq. miles.		Sq. miles.	Sq. miles.		Sq. miles.	Rs.	Rs.
Northern	1937-38	2,677	100	2,577	96.3	6,860	2.6
	1936-37	2,605	60	2,545	97.7	5,303	2.1
Central	1937-38	3,837	227	3,610	94.1	7,442	1.9
	1936-37	3,918	144	3,774	96.3	9,039	2.4
Southern	1937-38	971	27	944	97.2	7,520	8.0
	1936-37	966	27	939	97.2	8,223	8.5
Total	1937-38	7,485	354	7,131	95.2	21,812	3.06
	1936-37	7,489	231	7,258	96.9	22,565	3.1

Northern Circle.—Compared with the figures of the past year there has been an increase in the area burnt, all divisions except East Nasik contributing thereto.

In the Panch Mahals where the increase in the area burnt is the most marked, the people did not take the same amount of special care for the preservation of grass as they did last year—the year of scarcity. Some fires were started by cattle thieves for clearing paths. In some parts of the Thana District, poachers set fire to the forests in order to facilitate poaching, particularly in the Tansa catchment area, where there is a dense growth of grass in deserted village sites and where it is difficult to control fires. In this locality prompt assistance in putting out fires is not available and by the time the villagers from a distance turn out, a fire once started overruns a large area. A case of illicit shikar by some villagers has been taken to court and it is pending decision. If it ends in conviction, it is hoped that the incidence of fires may decrease since illicit shikar and fires are closely related. Experiments to raise tree crops in blanks in the Tansa area are in progress.

Central Circle.—The total area burnt during the fire season ending 31st May 1938 was 227 square miles as against 144 square miles in the previous season. The causes for the increase are chiefly:—

1. Careless use of fire by persons passing along roads and cart-tracks through the forests.
2. External fires crossing the fire traces in the Satpuda forests of East Khandesh.
3. Large quantities of grass left on site as not being required to the same extent as in the previous season when there was scarcity, and finally
4. the preservation from injury of rosha grass which is sold annually for distillation precluded attempts at early burning in the North Khandesh Division.

Southern Circle.—Though there is no change in the area burnt in the Circle during the two fire seasons still there was an increase in Kanara Eastern Division which it is reported was due to a drier and consequently longer and more dangerous fire season. On the other hand there was a decrease in the Belgaum Division and this is attributed to early burning and better protection work done by the subordinates.

About 468 acres of plantations were burnt in Eastern Division, Kanara, as against 272 acres of the preceding year. Fires in plantations do untold injury and a badly burnt plantation left to itself can never produce a crop of great value. Money and time have to be spent on cutting back injured stems. More often than not the result after cutting back is a cluster of coppice shoots and this in turn means that more money and time are required for further cultural operations. There is not only loss of increment but an unnecessary prolongation of the time required for a plantation to grow beyond danger of serious fire injury,

and the special precautions against fire have to continue for a longer period. Fires cannot always be kept out of plantations even where the counter measures adopted are excellent, but generally they can be checked with proper protection. The Conservator of Forests, Southern Circle, considers that fire protection is not sufficient everywhere in his Circle and that more money will have to be set aside for this important work. The extra expenditure will not be a waste.

Turbans to the value of Rs. 150 were distributed amongst Patils and Kamgars as a reward for good fire protection in the Mandvi Range. Similarly turbans worth Rs. 27 were presented to the villagers and village officers who rendered conspicuous help in fire protection in the East Thana Division.

In the Central Circle villagers in a few instances were warned for bad fire protection.

(c) *Protection from cattle*—(Forms Nos. 60 and 61).

The forest areas open and closed to grazing were as under :—

	Square miles.	Per cent.
Closed to all animals for the whole year	1,316	10·1
Closed to all animals for part of the year	329	2·5
Open to all animals except browsers for the whole year	8,534	65·8
Open to all animals except browsers for part of the year	160	1·2
Open to all animals for the whole year	2,641	20·4
Total ..	12,980*	100·0

*Excludes area of over one square mile submerged in the Bhandardara lake.

The area open to grazing for horned cattle throughout the year was 87 per cent. The reduction in the period of closure from 10 to 5 years was continued in the three Thana and Panch Mahals divisions, except where forest growth was retarded by fires. In other parts closure was relaxed wherever necessary e.g. in the Bijapur District and Parasgad Taluka of the Belgaum District, where all closed coupes older than 3 years were opened and cutting of grass from all closed areas was allowed owing to scarcity conditions.

The total recorded number of cattle admitted to graze was 1,996,950 as against 2,329,582 in the previous year and 2,337,783 average of the past 3 years. Of the cattle admitted 1,558,143 were horned cattle, 427,596 sheep and goats and 11,191 others.

The decrease in the number of cattle is attributed to the fact that no accurate record of animals which grazed in the forests after receipt of Government orders postponing the collection of and subsequently abolishing, grazing fees was available in several divisions.

A notable event of the year was the abolition in August of grazing fees for all cattle except those coming from Indian States and other provinces. The grazing fees which had been collected before Government orders

postponing collection were received, were ordered to be refunded. The amount of such collection and subsequent refunds are as under:—

Circle.	Amount of grazing fees collected.	Amount refunded during the year.	Amount remaining to be refunded at the close of the year.	Balance.
	Rs.	Rs.	Rs.	Rs.
Northern	77,838	66,681	5,810	5,347
Central	1,56,350	1,18,604	10,227	27,519
Southern	40,070	37,955	497	1,618
Total	2,74,258	2,23,240	16,534	34,484

The amount in the last column represents fees recovered for cattle from Indian States and other provinces numbering 27,803 as well as arrears for years previous to the year under report.

The number of cattle impounded during the year was 82,463 as compared with 94,502 in the previous year. The Northern and Central Circles recorded a decrease. In the former it is attributed to the fact that owing to the postponement of the grazing fee collection and non-issue of free permits for some months, the cattle found grazing without permits were not impounded. In the Central Circle the decrease is chiefly due to impounding only such cattle as actually trespassed into closed areas after repeated warnings. In the East Khandesh Division, where the decrease is most noticeable, a warning system was introduced at the Collector's request in the hope of securing spontaneous co-operation of the people. According to this system a trespasser detected for the first time allowing cattle to trespass in a closed area is given a written warning. If detected committing the same offence a second time, the offence is recorded in the offence register and proceedings are taken under the Forest Act, the concession of being let off with a warning to be given only once during the year. As said above the system worked well.

The Southern Circle showed an increase which was due to the fact that owing to a wrong impression created among the villagers that the new rules permitted grazing of cattle anywhere in the forest, whether open or closed, cattle were driven into closed areas and in consequence were impounded.

(d) *Protection against injuries from natural causes—Vegetable pests.*

(i) *Creepers and climbers.*—Creeper and climber cutting was carried out as usual through the medium of subordinates except in some cases in the Northern Circle where contractors also did this work.

(ii) *Prickly pear*.—Prickly pear in the Poona and Satara Divisions of the Central Circle and in whole of the Southern Circle has practically all been destroyed by the agency of the cochineal insect. In a few places in the Southern Circle, however, fresh young shoots of this pest are still visible. The insects are not now swarming and the progress of the new growth of prickly pear will be watched.

(iii) *Loranthus spp.*—Lorantius was kept under control in Kanara Western Division by removing and burning the affected stems or branches of trees.

(iv) *Lantana*.—No land was given out for cultivation in the Poona Division on condition of eradicating lantana.

Animal pests.

Rats, hares, porcupines, monkeys, *nilgai* and *sambhar* were responsible as usual for certain amount of damage in plantations in the Northern and Southern Circles. In addition to the above, elephant, bison, *cheetal* and wild pig did much damage in the Southern Circle. In Eastern Division, Kanara, particularly, the damage done by bison, *sambhar* and *cheetal* is on the increase and special measures to combat it are being devised. Damage by elephants has become serious in the area between Tatwal and Nersol. Attempts are being made in Kanara Western Division to kill porcupine by poisoning with potatoes treated with arsenic and also by granting rewards at Re. 1 per porcupine killed.

In the Gotegali plantation 42 treated potatoes were eaten within one month and 7 porcupines were found dead, similarly in the Kerwadi plantation 8 potatoes were eaten but the actual number of porcupine killed is not known. The experiment cost Rs. 2 and porcupine damage in the plantations experimented upon decreased. This method of treatment will be extended to other plantations where porcupine damage is serious.

Insect pest.

In the North and East Thana Divisions, the teak defoliator caused considerable damage to the young teak plantations all over the division and also to the older trees. In the case of older trees, the inflorescence was killed outright and no fertile seed was produced with the result that the division had to depend on other divisions for the supply of teak seed. The matter is under investigation by the Forest Entomologist, Dehra Dun, and the necessary preliminary data are being collected to facilitate enquiry when he visits the area.

Damage by Cockchafer grubs to teak seedlings was observed in East and West Thana.

Tivas (*Ougeinia dalbergioides*) in some parts of the North Thana Division had also an insect attack, but investigation by the Forest Entomologist to whom 2 damaged sections out of a dead seedling were sent showed that the roots were infected by a fungus identified as *Ganoderma lucidum*—a common root parasite.

The Ravlook cricket (*Brachytrypes aebatimus*) did considerable damage in Arge casuarina plantations in Kanara Western Division. Defoliators also did some damage to young teak plantations in all the Kanara Divisions.

A large number of *Shorea talura* trees were found dead in the Sirsi-Siddapur Range of Kanara Eastern Division. It was noticed that they were attacked by a borer. Larvæ were sent to the Forest Entomologist, who stated that the species was new to his collection and was possibly *Massicus venustus* Pasc. (*Cerambycidae*) or closely allied to it. He advised on the control measures to be adopted and called for further specimens to make sure of the identity.

Frost and erosion.

There was no damage through frost. There was less damage by erosion to the casuarina plantations in Akshi and Nagam in the Kolaba Division than in the previous year. Some erosion occurred in the poorer parts of the Dharwar-Bijapur Division.

A severe North-East cyclone uprooted a number of trees and damaged the crowns of hundreds of others in parts of the North Thana Division in the last week of September 1937. The damaged trees have been marked for exploitation.

CHAPTER III.

SILVICULTURE.

1. SYSTEM OF MANAGEMENT.

The area in charge of the Forest Department aggregates 10,729 square miles of which 7,696 square miles are organised under various silvicultural systems as detailed below :—

Silvicultural system.	Area in square miles.	Percentage of the total area.
1. Clear felling	2,748	25.6
2. Selection	456	4.3
3. Uniform	331	3.1
4. Improvement	606	5.6
5. Selection-cum-improvement	426	4.0
6. Coppice with standards	974	9.1
7. Simple coppice	518	4.8
8. Other	1,237	11.5
9. Combination of clear felling and improvement felling	400	3.7
Total under silvicultural systems	7,696	71.7
Protection, grazing and unorganized	3,033	28.3
Grand total	10,729	100.0

2. GENERAL PROGRESS OF REGENERATION AND AFFORESTATION.

(a) Mainly natural.

The total area under natural regeneration both concentrated and not concentrated was 58,923 acres as against 62,893 acres in the last year and was distributed as under:—

	Circle.					Acres.
Northern	23,878
Central	19,489
Southern	15,556
					Total	58,923

(i) Concentrated.

Northern Circle.

Panch Mahals.—As fuel species are as valuable as teak in the Panch Mahals Division, greater attention was given to the sowing of *babul* (*Acacia arabica*), *khair* (*Acacia catechu*) and *nimb* (*Azadirachta indica*) along with teak stumps. Out of 204,514 plants raised 154,076 plants were reported to be surviving on 31st March 1938. The total area of rab patches regenerated during the year was 178 acres. The cost of regeneration was Rs. 1,780.

Thana Divisions.—The planting of teak stumps and the sowing of teak and suitable *injaili* seeds on rab patches in the newly exploited coupes were carried out as usual. The results are as below:—

Division.	Total area of coupes regenerated.	Total area of rabs and kiln sites regenerated.	Number of rab patches or kiln sites prepared and planted with teak stumps or dibbled with seed.	Number of germinations and additional transplants put out.	Survivals on 31st March 1938.	Cost of regeneration.
	Acres.	Acres.	Nos.	Nos.	Nos.	Rs.
North Thana	2,883	414	4,680	507,126	430,450	6,360
East Thana	2,658	175	4,002	881,226	209,085	2,741
West Thana	2,446	321	5,066	781,024	601,027	3,332

Stump planting was resorted to on a larger scale than usual, but owing to the late advent of the monsoon many of the stumps died. Fresh stump plants were therefore put in but their growth was not as vigorous as in the case of those which had been put in just prior to the setting in of the rains.

“Semi nursery rabs” referred to in the last year’s report, were prepared on a large scale to provide stumps.

In parts of the West Thana Division where teak formed over 20 per cent. of the crop about 25 per cent. of the rab area was sown, as usual, with valuable *injaili* (jungle wood) species, e.g., *ain* (*Terminalia tomentosa*), *khair* (*Acacia catechu*), *babul* (*Acacia arabica*), *tivas* (*Ougeinia dalbergioides*) and *shivan* (*Gmelina arborea*).

East Nasik.—Teak, *babul* (*Acacia arabica*), *sisum* (*Dalbergia latifolia*), *bibla* (*Pterocarpus marsupium*) and *shivan* (*Gmelina arborea*) were sown on rabs in the Teak Working Circle and also to a small extent in the scrub Working Circle.

The grant of land under the agri-cum-forestry system was continued as a result of which there was an addition of 1,016 acres to the area brought under this system. At the close of the year, there were in all 497 plot holders against 420 in the previous year. This year mixed species such as *anjan* (*Hardwickia binata*), *nimb* (*Azadirachta indica*), *khair* (*Acacia catechu*) and *tamarind* (*Tamarindus indica*) were tried, *babul* (*Acacia-arabica*) being confined to specially favourable localities. Densely growing *babul* lines were thinned.

West Nasik.—Natural regeneration in the exploited coupes was supplemented by dibbling of teak seed on rabs and also by transplanting and stump planting. Out of 119,648 seedlings, only 93,999 survived.

Surat Sub-Division.—Stump planting was resorted to on burnt patches aggregating 59 acres. Seeds of various *injaili* species and bamboos (*Dendrocalamus strictus*) were sown in nurseries. Germination was good on the whole, but was affected in some places by deficient rainfall. The survival rate on the whole was satisfactory except for bamboo seedlings among which casualties were heavy.

Central Circle.

Coppice growth, especially of teak, was fairly good in all the divisions except Kolaba where it was retarded by an attack of defoliators in the second half of the rains. Natural regeneration was supplemented by artificial regeneration of teak and other valuable *injaili* species such as *tivas* (*Ougeinia dalbergioides*), *khair* (*Acacia catechu*), *dhurda* (*Anogeissus latifolia*), sandalwood, etc., on burnt rabs and kiln sites. Teak was raised by sowing treated seed and planting stumps. Germination was fairly good except in West Khandesh where sown rabs compared unfavourably with those stump planted. Failures were made good by transplants. In the Kolaba Division nearly all the seedlings and

stump plants were stripped of their leaves by defoliators. Though this attack caused very few casualties the seedlings and the stump plants took a good deal of time to recover from the damage, and consequently their growth was below normal. Many plants were also destroyed by locusts in some coupes of Roha Range.

The results of germinations and survivals in all the divisions are as under :—

Division.	Number of germination and transplants of root and shoot cuttings put in.	Bamboos.	Survivals.	
			Teak.	Bamboo.
East Khandesh ..	76,604	....	26,986	....
North Khandesh ..	101,087	....	72,822	....
West Khandesh ..	109,229	....	72,653	....
Poona ..	93,048	396	54,217	129
Kolaka ..	1,126,189	80	853,070	58
Satara ..	114,508	1,133	37,013	594

Stump planting, which proved very successful is being followed in all the divisions.

Agri-cum-forestry was continued in Roha and Nagothna ranges and extended to other ranges of the same Division where 26 coupes as against 22 in the previous year were regenerated by this system. In some places, the *nagli* (hill millet) crop was damaged by caterpillars and for this reason the cultivators were paid in cash for their labour in raising teak. In the Dhulia range of the West Khandesh Division this system was tried in the *anjjan* (*Hardwickia binata*) forests, but the experiment was not a marked success as most of the plot-holders neglected their plots. Similarly in the Dhebewadi range of the Satara Division this system proved a failure as the villagers were not interested in the work.

In the West Khandesh Division attempts were made, with hopeful results, to raise *sawar* (*Bombax malabaricum*) seedlings on unburnt ground and on nursery beds. These were later on transplanted on rabs between rows of teak.

Southern Circle.

An area of about 757 acres of teak pole and fuel coupes in the Kanara Northern Division was under natural regeneration by means of stool shoots, suckers and self-grown seedlings. This was supplemented by sowing and stump planting of teak, sandalwood and valuable junglewood species as *matti* (*Terminalia tomentosa*), *honue* (*Pterocarpus marsupium*).

over an area of 63 acres. In the Kanara Eastern Division 326 acres were subjected to natural regeneration, supplemented by sowing and planting of teak over an area of 30 acres. Natural regeneration by coppice of *matti* (*Terminalia tomentosa*), *honne* (*Pterocarpus marsupium*), *kindal* (*Terminalia paniculata*), *jamba* (*Xylia xylocarpa*) over an area of 1,191 acres of the fuel coupes and Soppihosalli High Forests of the Kanara Western Division was supplemented by artificial regeneration of 463 acres by planting teak stumps and teak seedlings. 3,088 acres of teak pole and fuel forests of the Belgaum Division were under natural regeneration by coppice. Sowing of teak seed and planting of stumps over 22 acres were done, and sandalwood seed was dibbled under cut *lantana*. Out of 9,508 acres of exploited coupes in the Dharwar-Bijapur Division, 9,425 acres were under natural regeneration by coppice and seed, the remaining 83 acres were subjected to artificial regeneration by planting of teak stumps and sowing of seeds of *nimb* (*Azadirachta indica*), *anjan* (*Hardwickia binata*), *sersal* (*Albizia lobbek*), *tugli* (*Albizia amara*) and sandalwood. The general condition of regeneration area in the Circle was satisfactory.

(ii) Not concentrated.

In the Paneh Mahals Division blanks, not regenerated with *rabs*, were sown with *babul* (*Acacia arabica*), *khair* (*Acacia catechu*) and *nimb* (*Azadirachta indica*) in lines 18' apart with successful results. *Babul* (*Acacia arabica*) was sown under the agri-cum-forestry system in 10 coupes covering an area of 206 acres with successful results. Dibbling of teak, *anjan* (*Hardwickia binata*), *nimb* (*Azadirachta indica*), and *babul* (*Acacia arabica*) in pits and furrows was continued in the East Nasik Division with fair success. Dibbling of sandalwood seed under bushes was considerably extended and outside forest *maliki* owners were encouraged to dibble the seed in their hedges.

Sandalwood was dibbled in the North Khandesh, Poona and Satara Divisions with satisfactory results except in Satara. Seeds of *kashid* (*Cassia siamea*), *jambul* (*Eugenia jambolana*), mango (*Mangifera indica*), *pisa* (*Actinodaphne hookeri*) and *hirda* (*Terminalia chebula*) were sown in the Satara Division with satisfactory results. Silver oak, cypress and casuarina were also tried in exploited coupes but without success. Attempts to introduce bamboo (*Dendrocalamus strictus*) and *shikekai* (*Acacia concinna*) in the Mahableshwar Range proved a failure.

Dibbling of sandalwood seed under bushes was carried out in the Dharwar-Bijapur Division. In the Belgaum forests in some areas where the natural regeneration of sandalwood was deficient, this species was introduced artificially.

(b) Mainly artificial.

162 acres of the Fuel Working Circle of the Dhond Range, Poona Division, and 45 acres of exploited *babul* coupes of the Transpurna and Jamner and Edlabad *Babul* Working Plan in the East Khandesh Division

were successfully regenerated with *babul* (*Acacia arabica*). 261 acres of babul forest above flood level were given out for cultivation under the agri-cum-forestry system in the Poona Division, but the results were disappointing. For this partial failure poor rainfall and lack of proper co-operation by the cultivators were equally to blame.

The following table gives the areas in Kanara Northern Division, Eastern Division and Western Division which were regenerated with teak on an intensive scale :—

Working Plan.	Area planted.		Spacing.
	Acres.		
1. Bhagwati High Forest Working Plan	79		12' × 6'
2. Supa High Forest Working Plan	198		9' × 9'
3. Gund Working Plan	53		9' × 9'
4. Nagzari Working Plan	50		9' × 9'
5. Revised Working Plan for Nersol Slopes High Forests	32		9' × 9'
6. Revised Working Plan for the Yellapur-Mundgod Teak High Forests	354		9' × 9'
7. Ramanguli-Ankola High Forests	126		12' × 8'
Total	892		

About 46 acres of plantations in the Virnoli Range were burnt, and nearly 11,000 teak plants were damaged. The damaged plants were cut back and the regrowth is progressing well. Similarly 2 acres of plantation in Kulgi Range were burnt but the damage is negligible. The general condition of the plantations in Northern Division, Kanara, is good. Owing to poor "burns" in some of the clear felled areas of Kanara Eastern Division, the results were disappointing. The monsoon was also not favourable. In spite of these adverse conditions, the plantations in series I, IV and V are promising.

75 acres of the Revised Working Plan for the Casuarina plantations in Western Division, Kanara, were regenerated with casuarina raised in wet nurseries—the spacing adopted being 12' × 12'.

16 acres of regeneration area No. 12 in the Nagargali Range in the Belgaum Division were artificially regenerated with 18,660 stumps. The plantation is promising.

(c) Afforestation.

There was no afforestation done during the year.

3. TENDING OF THE GROWING STOCK.

Northern Circle.—In the Panch Mahals Division cleanings were carried out according to the sanctioned programme. Arrear thinnings were done at a cost of Rs. 4,036 while the revenue derived from this source amounted to Rs. 19,426. In the 3 Thana Divisions first thinnings were carried out in 295 coupes of which 226 coupes were sold standing for Rs. 23,875, 60 coupes were worked departmentally and 4 coupes in West Thana were worked by villagers who were permitted to take the resultant material in lieu of wages.

The following table gives the number of coupes in the Thana Divisions in which II and III thinnings were carried out according to the prescriptions of the revised working plan and the revenue realised therefrom :—

Division.	Number of coupes sold.			Price realised.		
	II thinning coupes.	III thinning coupes.	Total.	II thinning coupes.	III thinning coupes.	Total.
				Rs.	Rs.	Rs.
North Thana ..	40	70	110	37,123	50,532	87,655
East Thana ..	32	60	92	21,223	29,541	50,764
West Thana ..	27	49	76	22,891	20,840	43,731
Total ..	99	179	278	81,237	1,00,913	1,82,150

50 coupes in East Thana and 32 coupes in West Thana remained unsold.

In the West Nasik Division, cleanings were carried out in 2 coupe at a cost of Rs. 10 and silvicultural thinnings in 16 coupes in Harsu and Barhe ranges at a cost of Rs. 242. The thinnings in Barhe Range produced 6,425 poles which remained unsold. The thinnings done at a cost of Rs. 115 in coupes Nos. 8 and 28 of block XIV and Nos. 21 to 25 of block XV of Peint yielded a revenue of Rs. 378.

Five-year old coupes in the Surat Sub-Division were cleaned at a cost of Rs. 368. Out of the 17 coupes 5 were thinned departmentally and the remaining sold for Rs. 2,248.

Central Circle.—Thinnings in coupes 3 and 4 in 9 Teak Pole series of Chopda and Yawal ranges cost Rs. 280 and yielded 1,620 timber pieces and 291 cartloads of fuel of which 37 timber pieces and 219 cartloads fetched Rs. 158. Cutting back operations were carried out by guards in coupes 14 and 15 of the Anjan Felling Series I to XXIII in the Raver Range and of the 73 cartloads of resultant material 60 cartloads fetched Rs. 30. Thinnings in 7 coupes of the Scrub Working Plan cost Rs. 120 and the resultant material fetched Rs. 129.

Thinning and cutting back operations were carried out over an area of 621 acres in North Khandesh at a cost of Rs. 280. In the Poona Division weeding and tending of plantations were carried out in most of the exploited coupes under regeneration. Thinnings and cleanings on an extensive scale were done in 119 and 52 coupes respectively in the Main and Fuel Working Circles of the Poona Working Plan. *Watapad* operations for the exploitation of dead, dying and windfallen *babul* trees were departmentally carried out wherever necessary throughout the Fuel Working Circle at a cost of Rs. 3,371 and the revenue realised by the sale of the material from these operations and from thinnings and cleanings was Rs. 12,287.

In the Kolaba Division weedings were carried out in current and in one-year old coupes partly departmentally and partly by the *kumriwallas* (shifting cultivators) who did the work free of cost. The expenses of departmental working amounted to Rs. 1,191. Cleaning operations were done in all coupes 2 to 4 years old and also in 7-year old coupes which had missed the 5th year cleaning. Some coupes were cleaned by the villagers who took the resultant material and wherever there was no such material available, the work was paid for in cash, the payments amounting to Rs. 566. Out of 105 coupes worked under the old coppice with standards system and 32 arrear coupes, 47 remained in arrears; 23 were sold for Rs. 427, 23 were worked departmentally and 33 were thinned by the villagers in return for the resultant material, and 11 needed no thinning. The resultant material of 10 departmentally worked coupes fetched Rs. 163. 103 coupes, 10 to 15 years old, were thinned departmentally at a cost of Rs. 1,588 and 6 through the agency of the villagers in return for the resultant material. The material from departmental thinnings in 93 coupes fetched Rs. 4,649. In the Satara Division thinnings considered silviculturally desirable, though not prescribed in the working plan, were carried out at a cost of Rs. 106 and the material obtained therefrom fetched a revenue of Rs. 456.

Southern Circle.—Cultural operations were carried out wherever necessary and climbers, etc., were cut by subordinates while patrolling the forests. Improvement fellings were undertaken in 11 compartments in Kanara Northern Division; 7 in Kanara Western Division; 1 in Belgaum Division and 4 coupes in Dharwar-Bijapur Division.

Thinnings were carried out in 802 acres of Teak Pole and 170 acres of High Forest Plantations in the Kanara Northern Division; in 665 acres of High Forest Plantations and 12 old Teak Pole coupes in Kanara Eastern Division; 154 acres of Casuarina and 1,825 acres of High Forest and Fuel Coupes Plantations in Kanara Western Division; 2 Teak Pole Coupes and 332 acres of High Forest and Fuel Coupes Plantations in the Belgaum Division and in 8 coupes in the Dharwar-Bijapur Division. The revenue realised was Rs. 15,431 against an expenditure of Rs. 6,319 the net profit being Rs. 9,112. Some material from thinnings in the Kanara Eastern and Western Divisions remained unsold at the close of the year.

Areas artificially regenerated during the past 20 years were closely examined to decide whether the attention they had received during this period was adequate or not. It was realised that the intensity of thinnings was not sufficient and that plantations were being left too long before receiving the first thinning and between subsequent thinnings. The Chief Conservator led the investigation and demonstrated methods to the staff by personally undertaking a number of sample thinnings in different parts of the Circle. This movement received a further stimulus from the visit of the Inspector General of Forests, India, and before the year was out there was a marked increase of interest on the part of all ranks throughout the Circle in the matters of earlier, heavier and more frequent thinnings of the growing stock. Thinning programmes to bring all work up to date according to the standards considered suitable, were drawn up for each division and the amount of work already done in this direction is a credit to the Divisional Forest Officers concerned.

With this object in view, the Divisional Forest Officer, Working Plans, S. C., was deputed to examine and report on the condition of all the important plantations in the Circle. He visited plantations in 20 localities. His report was received after the close of the year and is under consideration. The question of cleanings also received consideration during the year with the result that they will in future be much heavier in those localities in which they were found hitherto to be insufficient.

CHAPTER IV.

EXPLOITATION.

(a) SYSTEMS OF MANAGEMENT.

(i) Major Forest Produce (Form No. 63).

The various systems of exploitation and the areas worked under each are given in Chapter III under (i) "System of Management".

Major forest produce was extracted in the Northern Circle almost solely through the agency of purchasers. In the Central Circle departmental operations were confined to extraction of fuel for the Government fire-wood depôts at Mahableshwar, Pandegani, and Matheran. In the Southern Circle all material either for sale in lots or conversion into sawn material was extracted departmentally or through the agency of contractors from most of the High Forest areas, while waste wood left *in situ* and the standing crop in some of the High Forest compartments and Pole and Fuel coupes were sold to purchasers. Sandalwood was extracted departmentally and brought to the depôts for conversion and sale. Essentially silvicultural operations, such as early thinnings, were carried out departmentally in most cases.

(ii) *Minor Forest Produce (Form No. 64).*

Minor forest produce was as usual farmed out in all the Circles. Hirda was collected in the Rajur Range as hitherto, on the "quota" or share system. The total collection amounted to 71 *khundis*, 8 *maunds* and 5 *payalis* and it was sold by tender at Rs. 1-12-5 per bag of 20 *payalis*, the revenue realised from this source being Rs. 1,522-3-0 as against the rate of Re. 1 per bag and the total realisation of Rs. 1,068-12-0 of the previous year. No other expenditure except the cost of advertisement for sale amounting to Rs. 18 was incurred. Grass and grazing fetched Rs. 4,68,921 against Rs. 6,77,541 in the previous year. But out of this amount Rs. 2,39,774 was subsequently ordered to be refunded (of which Rs. 2,23,240 was actually refunded by end of March 1938 leaving Rs. 16,534 still to be refunded) on account of abolition of grazing fees leaving a net return of Rs. 2,29,147. The decrease of Rs. 4,48,394 as compared with last year is due to introduction of free grazing as announced by Government in September 1937.

(b) AGENCY OF EXPLOITATION.

(i) *Departmental Agency.*

The following is a comparative statement of major and minor produce extracted departmentally during the two years 1937-38 and 1936-37 :—

Major Forest Produce.					
Circle.	Year.	Timber C. ft. in thou- sands.	Fuel C. ft. in thou- sands.	Total C. ft. in thou- sands.	Sandal- wood value. Rs.
Northern ..	{ 1937-38 ..	142	500	642	..
	{ 1936-37 ..	85	454	539	..
Central ..	{ 1937-38 ..	91	457	548	330
	{ 1936-37 ..	115	485	600	1,667
Southern ..	{ 1937-38 ..	550	13	563	1,20,816
	{ 1936-37 ..	672	2	674	96,405
Total ..	{ 1937-38 ..	783	970	1,753	1,21,146
	{ 1936-37 ..	872	941	1,813	98,072
Difference ..		-89	+29	-60	+23,074
Percentage of total out- turn from all sources ..		12.5	2.1	3.3	100

Circle.	Year.	Minor Forest Produce.			
		Bamboo value.	Grass and grazing value.	Other value.	Total value.
		Rs.	Rs.	Rs.	Rs.
Northern ..	1937-38 ..	18	..	..	18
	1936-37 ..	18	..	..	18
Central ..	1937-38 ..	..	..	1,647	1,647
	1936-37 ..	..	..	1,069	1,069
Southern ..	1937-38 ..	15	..	23	38
	1936-37 ..	20	..	75	95
Total ..	1937-38 ..	33	..	1,670	1,703
	1936-37 ..	38	..	1,144	1,182
Difference ..		-5	..	+526	+521
Percentage of total out- turn from all sources ..	.....	..	..	..	..

Northern Circle.—The sawn timber held in stock at the Nasik Road Timber Depôt was all sold during the year and this partly accounts for the increase under "Timber". The outturn from the thinning coupes worked departmentally in the Panch Mahals, and North and East Thana was greater than that of the previous year and accounts for the increase under "Timber" and "Fuel".

Central Circle.—Departmental operations were restricted to the supply of fuel and manufacture and supply of charcoal to Government fuel depôts and to silvicultural operations including the *watpad* operations in the Poona Division. The decrease under "Timber" and "Fuel" is therefore accounted for by the working of fewer coupes departmentally as there was less demand. The consumption of firewood at Matheran is decreasing owing to the increased use of charcoal. As there was a large stock of fuel in hand at the Malcompeth Depôt, extraction was restricted to 100 stacks only.

Southern Circle.—The decrease under "Timber" is due partly to the unsatisfactory progress of work by some of the logging contractors in Kanara Northern Division and partly to the fact that all the High Forest Compartments in Kanara Eastern Division were sold standing instead of being worked departmentally. The material of a larger number of thinning coupes in the Dharwar-Bijapur Division being chiefly fuel accounts for the increase under fuel.

The value (Rs. 96,405) of sandalwood shown in 1936-37 was, as stated in the last year's report, only an estimate. Owing to the very low bids offered by the combine of sandalwood merchants no sale of the Kanara and Dharwar-Bijapur sandalwood was effected during the year 1936-37. This 1936-37 material was subsequently sold in 1937-38 for Rs. 79,317. The value of the Belgaum 1936-37 sandalwood was Rs. 16,780, making the total for the 1936-37 material Rs. 96,097. The value received for 1937-38 material was Rs. 1,20,816. This shows a considerable increase which is due to some disagreement and consequent competition between the two main sandalwood merchants and to the introduction of the method of retail sale. The retail sale rates were fixed in accordance with the rates obtaining in other territories and in spite of these rates being appreciably higher than the prices received or offered in the previous two or three years, there was a brisk demand. Retail sales were allowed to proceed until a few months before the date of the usual annual auction sale and were then discontinued.

Timber Depôts.—All sawn wood held in stock in the Nasik Road Timber Depôt was sold during the year under report. The average prices obtained in this and the 4 Government Depôts in the Southern Circle are given in the following table :—

Kind of timber.	Average rate per khandy of 12'50 C.ft.					
	Dandeli.		Kodibaz.		Kirwatti.	
	1937-38.	1936-37.	1937-38.	1936-37.	1937-38.	1936-37.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Teak (<i>Tectona grandis</i>) ..	25 15 0	25 15 5	27 4 7	10 3 8	25 1 1	24 8 0
Matti (<i>Ferulalia tomentosa</i>) ..	11 4 7	12 0 10	12 8 10	10 11 2	10 6 10	10 15 0
Nana (<i>Lagerstrœmia microcarpa</i>)	10 2 10	13 7 4	..	..	..	..
Houue (<i>Pterocarpus marsupium</i>)	13 10 0	14 11 2	11 8 2	10 3 8	..	15 9 3
Sissum (<i>Dalbergia latifolia</i>) ..	11 6 9	11 4 5	13 3 10	13 12 1	6 8 9	9 5 4
Karimtal (<i>Ougeinia dalbergioides</i>).	16 1 2	16 1 9	..	..	19 2 8	26 3 10
Heddi (<i>Adina cordifolia</i>) ..	11 5 1	12 11 22	..	..	10 4 0	8 6 1
Other junglewood ..	10 1 10	11 14 6	..	..	..	..
Teak battens ..	18 0 4	19 14 2	..	..	..	..
Teak scantlings ..	23 1 6	22 5 4	..	..	..	..
Teak planks ..	49 10 8	38 0 9	..	..	..	..

Average rate per khandy of 12·50 C. ft.

Kind of timber.	Katur.		Naak.	
	1937-38.	1936-37.	1937-38.	1936-37.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Teak (<i>Tectona grandis</i>) ..	26 3 0	25 4 0	....	....
Matti (<i>Terminalia tomentosa</i>) ..	9 6 7	11 13 1	....	....
Nana (<i>Lagerstroemia microcarpa</i>) ..	....	....	....	....
Honne (<i>Pterocarpus marsupium</i>) ..	....	15 5 4	....	....
Sisum (<i>Dalbergia latifolia</i>) ..	10 14 8	15 5 10	....	....
Karimtal (<i>Ougeinia dalbergioides</i>) ..	....	....	....	....
Heddi (<i>Adina cordifolia</i>) ..	11 10 10	....	....	....
Other junglewood ..	....	....	....	....
Teak battens ..	....	....	} 10 2 6 {	6 4 0
Teak scantlings ..	....	....		21 14 0
Teak planks ..	....	....		21 4 0

At the Dandeli Depot, where most of the material is sold, the prices for teak remained steady at last year's level. No improvement in the market was apparent and none is anticipated in the near future. The variations between the prices for other species were due to the more or less general drop in the market for junglewoods. There was better demand for sawn timber except teak battens for which competition was poor. At the other depots the slight variations in prices recorded were due to small differences both in the quality and quantity of material offered for sale.

Of the three fuel depots in the Central Circle viz. Matheran, Malcompeth and Panchgani, the first was run departmentally, the second continued to be managed by the Department to the end of December 1937, after which date it was handed over to a contractor. The Panchgani depot and also the 6 depots in the Kanara Western Division of the Southern Circle were worked through contractors.

(ii) *Purchasers.*

The following table compares the outturn of major and minor produce removed by consumers and purchasers during the years 1937-38 and 1936-37 :—

Circle.	Year.	Major Forest Produce.				Sandal-wood value.
		Timber.		Fuel.		
		C.ft. in thousands.	Value.	C.ft. in thousands.	Value.	
			Rs.		Rs.	Rs.
Northern	1937-38..	2,730	14,06,873	8,290	21,521	..
	1936-37..	2,653	14,37,866	8,004	19,077	..
Central	1937-38..	875	3,37,257	5,393	65,958	..
	1936-37..	966	3,78,852	4,635	76,789	..
Southern	1937-38..	1,747	5,14,036	5,711	1,86,832	..
	1936-37..	1,618	4,26,311	4,655	1,79,725	..
Total	1937-38..	5,352	22,58,166	19,394	2,74,311	..
	1936-37..	5,237	22,43,029	17,294	2,75,591	..

Circle.	Year.	Minor Forest Produce.			
		Bamboos value.	Grass and grazing value.	Other minor forest produce value.	Total value.
		Rs.	Rs.	Rs.	Rs.
Northern	1937-38..	18,741	1,26,326	30,773	1,75,842
	1936-37..	7,473	1,81,531	39,162	2,28,166
Central	1937-38..	13,664	3,02,523	40,866	3,57,053
	1936-37..	13,028	4,15,002	35,171	4,63,201
Southern	1937-38..	65,922	863	39,939	1,03,724
	1936-37..	47,173	81,008	27,750	1,55,931
Total	1937-38..	98,327	4,29,714	1,11,578	6,36,619
	1936-37..	67,674	6,77,541	1,02,083	8,47,298

n Circle.—The increase in the volume of timber is due partly to the fact that the coupes sold in the Panch Mahals, West Thana and East Thana Divisions were better stocked than those of the previous year, and partly to the transfer of the Surat Sub-division from the Central to the Northern Circle.

1. The revised method of selecting trees for felling in the III thinning coupes in the 3 Thana Divisions whereby sound trees were not marked and the poor growth in the gurcharan coupes in the North Thana Division account for the decrease in the value under timber.
2. The sale of trees from woodland plots in the West Thana Division, the better prices realised for fuel coupes in the East Nasik Division and the addition of the revenue from the sale of fuel coupes in the Surat Sub-division were responsible for the increase in value and volume under fuel.

There was a brisk demand for bamboos in the North and West Thana Divisions and hence there was an increase under "Bamboos"; abolition of grazing fees is solely responsible for the decrease under "grass and grazing"; while the decrease under "other minor forest produce" was due to the fact that the figures of the last year under this item included the outstandings of the year before and also to the low prices for *timbru* (*Diospyros melanoxylon*) leaves in Panch Mahals and *anjan* (*Hardwickia binata*) leaves and *mhowru* (*Bassia latifolia*) flowers in East Nasik.

Central Circle.—This Circle shows a decrease under timber, an increase under fuel and a decrease in the value realised. The decrease under timber was due to the transfer of the Surat Sub-division and this cause coupled with a dull market was responsible for the decrease in value. The increase in volume of fuel was due to better stocking of coupes sold.

Due to a greater demand for bamboos in East Khandesh, there was an increase under this head. Greater demand for fencing posts, better prices obtained for *hirda* (*Terminalia chebula*), and *babul* (*Acacia arabica*) pods in the Poona Division and also for *hirda* (*Terminalia chebula*) and *shikekai* (*Acacia concinna*) in the Satara Division, the increased sale of *mhowru* (*Bassia latifolia*) seed due to a good crop and keen competition and better prices for the three years' contract of *kadhai* (*Sterculia urens*) gum and *apta* (*Bauhinia racemosa*) and *temburni* (*Diospyros melanoxylon*) leaves, account for the increase of revenue under "other produce". The decrease under "grass and grazing" was caused by the abolition of grazing fees.

Southern Circle.—The increase in the quantity and value of both "timber" and "fuel" are due to the greater number of coupes and compartments sold standing in Kanara, E. D. and W. D.

There was an appreciable improvement in the bamboo market. The decrease in the value of "grass and grazing" is due to the abolition of grazing fees. Better prices realised for some minor produce, especially for that of *hirda* (*Terminalia chebula*) and *shikekai* (*Acacia concinna*) in Belgaum and Kanara, N. D. contributed to the increase under "other produce."

(iii) *Rights, Privileges and Free Grants.*

The following is a comparative statement of the quantity and value of forest produce removed by right and privilege holders and free grantees during the years 1937-38 and 1936-37 :—

Circle.	Agency.	Major Forest Produce.				Minor Forest Produce.			Total value.
		Timber.		Fuel.		Bamboos value.	Grass and grazing value.	Other minor produce value.	
		C.ft. in thousands.	Value.	C.ft. in thousands.	Value.				
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
Northern	C ..	..	..	7,707	1,76,853	71,591	10,67,516	1,27,460	12,66,567
	F ..	10	7,013	..	..	80	..	224	304
Central	C ..	..	..	9,287	2,27,127	..	1,78,614	1,98,114	3,71,728
	F ..	17	7,202	4	160	160	55	44,470	44,685
Southern	C ..	59	12,602	9,255	1,14,053	3,763	3,59,995	50,951	4,14,709
	F ..	48	12,779	..	..	444	..	5,043	5,487
Total 1937-38.	C ..	59	12,602	26,309	5,18,033	75,354	16,01,125	3,76,525	20,53,004
	F ..	75	19,981	4	160	684	55	49,737	50,476
Total 1936-37.	C ..	129	21,408	25,266	8,41,954	76,149	15,27,641	4,78,213	20,82,003
	F ..	72	29,550	3	341	1,078	5,489	9,390	15,957

C=Concessionists.

F=Free grantees.

The only recognised rights are those of way. Villagers enjoyed as usual, the various privileges allowed under settlements, local rules and other Government orders. The quantity of forest produce removed in exercise of such privileges varies annually according to the requirements of the privilege holders.

Free grants of timber and other forest produce were given in all deserving cases for the construction of houses destroyed or damaged by fire, construction of and repairs to temples, churches, *chavdis*, schools and other works of public utility. A free grant of timber worth Rs. 652 was given to 54 families whose houses were burnt in a big fire which occurred on 18th April 1936 in Jalgewadi in the Satara Division of the Central Circle.

(c) OUTTURN AND SOURCES OF FOREST PRODUCE.

The outturn from all sources of forest produce during the two years 1937-38 and 1936-37 compares as follows :—

Circle.	Year.	Major Forest Produce.			Minor Forest Produce.		
		Timber C.ft. in thousands.	Fuel C.ft. in thou- sands.	Sandal- wood value.	Bamboos value.	Grass and grazing value.	Other minor produce value.
				Rs.	Rs.	Rs.	Rs.
Northern	1937-38 ..	2,882	16,557	..	90,430	11,93,844	1,58,457
	1936-37 ..	2,747	15,150	..	79,082	12,60,244	1,63,369
Central	1937-38 ..	988	15,141	380	13,824	4,76,192	2,85,097
	1936-37 ..	1,101	14,369	1,867	13,640	5,97,836	3,47,429
Southern	1937-38 ..	2,404	14,979	1,20,816	70,144	3,60,858	82,956
	1936-37 ..	2,462	13,985	96,405	52,217	3,52,592	80,032
Total	1937-38 ..	6,260	46,677	1,21,146	1,74,398	20,30,894	5,36,510
	1936-37 ..	6,310	43,503	96,405	1,44,939	22,10,671	5,90,830
Difference	....	-41	+3,173	+24,741	+29,459	-1,79,777	-54,320

The total expenditure on management of State forest was :—

Circle.	1937-38.	1936-37.
Northern	1,36,503	1,26,295
Central	81,716	97,371
Southern	4,11,100	5,27,287
Total ...	6,29,319	7,50,953

CHAPTER IV-A.

THE FOREST ENGINEERING BRANCH.

The work done by the Forest Engineering Branch is as under :—

1. SURVEYS.

Nil.

2. DESIGNS AND DRAWING WORK.

Project.	Division.	Nature of work.
<i>Northern Circle.</i>		
1. Special design for a Kacheri building at Ahwa.	Dangs	.. Plans and estimate.
2. Low level causeway with Hydraulic calculations.	Do.	.. Do. do.
3. Wells	Do.	.. Do. do.
4. Katcha quarters for the Chief Instructor, Government Technical School, Ahwa.	Do.	.. Do. do.
5. Katcha Rest House and outhouses ..	Do.	.. Do. do.
6. Two guards lines at Goima and Mandvi.	Do.	.. Do. do.
7. Drainage works on Waghai-Bhawandgad road.	Do.	.. Do. do.
8. Crossing over Mulchand Nala ..	Do.	.. Do. do.
9. Buildings at Bassien	West Thana	.. Do. do.
10. Two guards' line at Kandivali ..	Do.	.. Do. do.
11. Quarters for one forester and 2 guards, Vada.	Do.	.. Do. do.
12. Quarters for the Range Officer, East Vada.	Forest East Thana	.. Do. do.
13. Katcha Rest House and outhouses ..	Panch Mahals	.. Do. do.

Central Circle.

- | | | |
|-------------------------------------------------------------------|---------------|------------------------|
| 1. Wire fencing for Jejuri kuran .. | Poona | .. Estimate. |
| 2. Quarters for Range Office clerk and 2 orderlies at Chinchpada. | West Khandesh | .. Plans and estimate. |

Project.

Division.

Nature of work.

1. 1'		<i>Southern Circle.</i>	
output	workedarters for subordinates at Supa	Northern Division, Kanara.	Inspection of site and plans and estimate.
_____	Dismantling and moving Fowler mill from Mandurli to Dandeli.	Do.	.. Estimate.
Tea'	Proposed alterations to garage at Dandeli.	Do.	.. Inspection, plan and estimate.
Te	4. Repairs to Tamange ghat road	Do.	.. Inspection and estimate.
5.	Sinking a well in the compound of Forester's quarters at Sirai.	Eastern Division, Kanara.	Plan and estimate.
6.	Guards' naka at Lalguli	Do.	.. Do. do.
7.	Special repairs to Range office building at Yellapur.	Do.	.. Do. do.
8.	Bridge in mile No. 1 of Katur-Bomahalli road.	Do.	.. Do. do.
9.	Range office at Katur	Do.	.. Plans and estimate and supervision.
10.	Proposed new bungalow at Mundgod	Do.	.. Revision of plan and site inspection.
11.	Well at Anilgod	Western Division, Kanara.	Plans and estimate.
12.	Well at Arbail	Do.	.. Do. do.
13.	Quarters for 1 clerk, 2 guards and post office at Nagargali.	Belgaum	.. Site inspection, plans and estimate.
14.	Providing ceiling over bed room, hall and office room of Ranger's quarters at Gujnal.	Do.	.. Plan and estimate.
15.	Forest Naka and quarters for 2 guards at Nandgad.	Do.	.. Plans and estimate.
16.	Latrine at Gokak	Do.	.. Do. do.
17.	Wire fencing round the compound of the Range office at Nagargali.	Do.	.. Estimate.
18.	Additions and alterations to sandal-wood shed at Dharwar.	Dharwar-Bijapur	.. Plans and estimate and supervision.

In addition to the above the Forest Engineer inspected the works and submitted reports on some of them :—

1. Culvert at 0/3 mile on Anshi-Yermukh road.
2. Labourers' chawl at Dandeli for proposed improve—
3. Dandeli dispensary do. do.
4. Additions to Mastinalla causeway.
5. Proposed Malgi-Kurli road.
6. Site for Kurli Rest House.
7. Culverts on Gunjawati-Kyatnali road.
8. Culvert No. 51 on Kadra-Shivpur road.

3. CONSTRUCTION.

The Forest Engineer continued the general supervision over the construction of an open seasoning shed at Dandeli, repairs to the quarters for the temporary engineering staff, installation of an additional bench at the Dandeli sawmill, repairs to Myres pump at Kirwatti, additions to the Sandalwood shed at Dharwar and the construction of the Range office at Katur. He also aligned and extended skidding tracts in the Nagzari valley for the tractor working on log extraction.

4. FOREST EXPLOITATION.

(a) *Mechanical skidding.*

Timber extraction work was carried on in series XI, compartment 22 with the Fordson skidder from 9th November 1937 to 28th May 1938. The total outturn was 1,086·25 tons against 38·66 tons of the previous year. The extraction costs exclusive of overhead charges amounted to Rs. 5-6-3 with an average length of haul of 2,037 ft. In a valley where none of the slopes are easy this year's operations were carried out in an area of exceptional difficulty. The satisfactory results obtained are a credit to the Forest Engineering Branch and in particular to the Skidding Ranger Mr. Narvekar and his crew. The skidding operations were inspected by the Honourable Minister for Revenue, Government of Bombay, the Inspector General of Forests and the Chief Conservator among others, who expressed appreciation of what they saw.

(b) Saw-milling.

1. The following table compares the figures of 1936-37 and 1937-38 output of the Government saw-mill at Dandeli—the only mill that was worked during the year :—

Description of outturn.	1937-38.	1936-37.	Difference.
	C.ft.	C.ft.	
Teak M. G. sleepers	69,972	78,672	-8,700
Teak sawn material	83,470	71,272	+12,198
Junglewood	33	326	-293
Total	1,53,475	1,50,270	+3,200

The increase in the total output is due to the working of an additional 36" circular saw bench during part of the year 1937-38. The railway indent for sleepers ending 31st March 1938 was smaller than in previous years and the outturn of sleepers decreased in favour of sawn wood.

2. The dead stock of the mill was checked with the registers. Unserviceable articles were either repaired or written off under proper authority. The total value of dead stock and stores supplied to the mill was :—

	Rs.
(1) Dead stock	637
(2) Consumable stores	6,450

3. *Progress of saw-milling.*—The following table shows the outturn and the average sawing charges incurred under the head stores, labour and establishment excluding overhead charges :—

Serial No.	Name of saw-mill.	Output during the year.			Average sawing cost per C.ft. stores.		
		1935-36.	1936-37.	1937-38.	1935-36.	1936-37.	1937-38.
		C. ft.	C. ft.	C. ft.	As.	As.	As.
<i>Southern Circle.</i>							
1	Dandeli saw-mill	161,389	150,270	153,475	0.76	0.55	0.67
2	Mandurli saw-mill	58,990	50,843	Closed down.	0.72	0.60	Closed down.
3	Kirwattisaw-mill	38,705	Closed down.	Do.	0.48	Closed down.	
	Total	259,084	200,913	153,475	0.71	0.55	0.67

Serial No.	Name of saw-mill.	Average sawing cost per C.ft. labour.			Average sawing cost per C.ft. Establishment.			Total excluding overhead charges per C. ft.		
		1935-36.	1936-37.	1937-38.	1935-36.	1936-37.	1937-38.	1935-36.	1936-37.	1937-38.
		As.	As.	As.	As.	As.	As.	As.	As.	As.
<i>Southern Circle.</i>										
1	Dandeli saw-mill	2.47	2.46	2.58	0.41	0.43	0.46	3.64	3.44 (a)	3.71
2	Mandurli saw-mill	1.56	1.42	Closed down.	0.25	0.37	Closed down.	2.53	2.40	Closed down.
3	Kirwatti saw-mill	2.16	Closed down.		0.72	Closed down.		3.36		Closed down. (b).
Total		2.21	2.19	2.58	0.42	0.41	0.46	3.34	3.15	3.71

(a) The mill was finally closed on 1st February 1937.

(b) This mill was finally closed on 1st November 1935.

Saw-mill trading accounts.—The trading accounts of the Dandeli saw-mill for 1936-37 were audited by the Outside Audit Branch of the Accountant General's Office.

The results of the working of the mill are summarised below:—

Item.	Dandeli Mill.		
	1937-38.	1936-37.	Difference.
	Rs.	Rs.	Rs.
Revenue	2,67,220	2,94,209	—26,989
Expenditure	1,30,050	1,40,022	— 9,972
Net profit	1,37,170	1,54,187	—17,017
Capital at charge	1,11,401	81,934	+29,467
Percentage of net profit on capital	123	188	.....

The net profit shows a decrease of Rs. 17,017, which is due to the curtailment of the demand for M. G. sleepers by the M. & S. M. Railway, as a result of which a large number of sleepers remained in stock at the close of the year. The valuation of these at cost price is below the amount that could have been realised by their sale to the railway.

A new 3-year contract for teak M. G. sleepers commencing from 1st April 1938 was entered into with the M. & S. M. Railway during the year.

As there is an increasing demand for special sawnwood from the railway and as it is desirable to meet to the fullest possible extent such indents, which are valuable, the question of installing an additional sawing unit at Dandeli is under consideration. The Fowler mill and machinery from the old Mandurli mill site are available for the purpose.

Private saw-mills.—Mr. Sayad Nasroddin Hasansab's mill at Katur in E. D., Kanara, produced 800 M. G. sleepers and 14,360 C.ft. of sawn material against 1,000 M. G. sleepers and 13,400 C.ft. of other sawnwood in the previous year.

General.

The activities of the Forest Engineering Branch were not only confined to the work already described. The investigation of suitable woods for picking sticks has been for some time in charge of the Forest Engineer. Trials have been made by the Forest Engineer with various likely substitutes, e.g. *dhumai* (*Grewia tiliaefolia*), *dindal* (*Anogeissus latifolia*), *nandi* (*Lagerstrœmia microcarpa*), etc. These Indian made sticks have not hitherto given satisfactory results chiefly on account of fractures. It is hoped to overcome this defect by the use of split instead of sawn sticks. Further tests which are in hand are promising.

2. This subject, as also the development of the jungle wood industry for turnery articles in general and bobbins in particular, also the lamin board and plywood industry is closely connected with the necessity of devising some satisfactory and reasonably cheap method for the artificial kiln seasoning of jungle woods. The construction of a dry kiln capable of fulfilling this need is under experiment at Dehra Dun, and as soon as a satisfactory type is evolved, work on these lines must be commenced at Dandeli.

3. There is a wide opening for the development of the charcoal industry in the Southern Circle. In the absence of suitable labour for this work the Forest Engineer took up the question of bringing into use the "Frikiln" designed at Dehra Dun. By the close of the year the purchase of a sample "Frikiln" from Bombay had been decided on and arrangements for the copying of this sample by local labour will be made by the Forest Engineer.

4. A somewhat similar type of utilization is the destructive distillation of hardwood. A small plant for this purpose has been erected by a private Company near Belgaum. It started work during the year: the quality of the charcoal is stated to be good, but at present the market for the other by-products of the distillation is very poor.

5. Useful experience of treating perishable junglwoods with the preservative "Ascu" under pressure treatment was gained at the Belgaum exhibition, but it is early at present to say what the prospects are for the development of this process on a large scale.

CHAPTER V.

FINANCIAL RESULTS.

(Forms Nos. 68, 69 and 70.)

The revenue and expenditure of the year compare with those of the last year and average of the previous quinquennium 1932-33 to 1936-37 as follows :—

Circle.	Year.	Revenue.	Expenditure.			Surplus or deficit.	Percentage of surplus to gross revenue.
			Conservancy and works.	Establishment.	Total.		
		Rs.	Rs.	Rs.	Rs.	Rs.	
Northern	1937-38..	16,04,934	1,38,080	6,15,436	7,53,516	9,11,418	54.7
	1936-37..	18,04,148	1,30,257	5,88,549	7,18,806	10,85,342	60.2
	Average	18,49,754	1,78,334	5,90,086	7,68,920	10,80,834	58.4
Central	1937-38..	7,85,322	90,327	6,23,971	7,14,298	71,024	9.0
	1936-37..	10,62,319	1,11,603	6,30,147	7,41,750	3,20,560	30.1
	Average	10,82,023	92,484	5,91,238	6,83,722	3,98,301	36.8
Southern	1937-38..	18,49,871	4,11,317	5,91,924	10,03,241	8,46,630	45.8
	1936-37..	18,90,160	5,27,837	5,89,733	11,17,570	7,72,590	40.9
	Average..	21,00,231	6,88,889	5,59,255	12,48,144	8,52,087	40.6
General Direction ..	1937-38..	12,912	33,083	1,87,942	2,21,024	-2,08,112	..
	1936-37..	12,000	93,946	89,959	1,83,905	-1,71,215	..
	Average..	2,563	1,02,031	72,990	1,75,021	-1,72,458	..
Forest Engineering	1937-38..	2,000	10,751	23,587	34,338	-32,338	..
	1936-37..	2,376	9,659	35,414	45,073	-42,696	..
	Average..	2,752	15,312	41,891	57,203	-54,451	..
Total Presidency ..	1937-38..	43,15,039	6,83,558	20,42,860	27,26,418	15,88,621	36.8
	1936-37..	47,71,684	8,73,302	19,33,802	28,07,104	19,64,580	41.2
	Average..	50,37,324	10,77,550	18,55,461	29,33,011	21,04,313	41.8
Difference between 1937-38 and 1936-37.	....	-4,56,645	-1,89,744	+1,09,058	-80,686	-3,75,059	..

The foregoing statement enables a comparison to be made between the figures of the year, those of the previous year, and also the average figures for the preceding five years. This last set of figures is however of less use for comparative purposes, as it includes the figures for the Dangs for 1932-33.

Comparing the figures of the year with those of the previous year it will be noted that revenue has decreased by 4·6 lakhs of rupees, expenditure has decreased by 0·80 lakhs of rupees, and the surplus has decreased by 3·8 lakhs of rupees to 15·88. The decrease in revenue was chiefly due to the decision of Government that in future no fees for grazing in forest should be levied in the Province. This made it necessary to refund Rs. 2·40 lakhs which had already been collected under this head, and to abandon all claims to the amount still due, viz. Rs. 2·08 lakhs or 4·48 lakhs in all. This sum is the difference between last year's income of Rs. 6·77 lakhs and the revenue actually credited this year Rs. 2·29 lakhs. Other large items to be noted were a decrease of B expenditure in the General Direction division of ·6 lakhs of rupees, due to a reduction in interest charges on past Capital outlay. This was however more than offset by an increase of ·98 lakhs under General Direction, establishment. This was due to the inclusion for the first time in the Forest budget of charges incurred by the High Commissioner on account of leave pay to forest officers on leave, and on account of sterling overseas pay.

Taking the figures for each Circle in slightly more detail the following remarks are necessary :—

Northern Circle.—The decrease in revenue is due mainly to the abolition of grazing fees and to a less extent to the introduction of a more conservative method of marking trees for removal in III thinnings in the Thana Divisions. The increase in expenditure is due mainly to the transfer of the Surat Sub-division to this Circle.

Central Circle.—The decrease in revenue was due mainly to the abolition of grazing fees and to the transfer of the Surat Sub-division to the Northern Circle. The decrease in expenditure was also due to this transfer and in addition to a decrease in expenditure on buildings and on repairs.

Southern Circle.—The drop in the revenue is due to the abolition of grazing fees, to decreases in the sale proceeds of timber and in the demand for railway sleepers in Kanara Northern Division, and to the failure on the part of contractors to deliver the prescribed amount of material at Sale dépôts. The decrease was to some extent made good by the receipts for the 1936-37 sandalwood of the Dharwar-Bijapur Division credited during the year and by an improvement in the prices for the 1937-38 sandalwood.

The decrease in expenditure was due to the fact that it was found possible to sell standing most of the High Forest timber workings in Eastern Division, Kanara, and also to the failure of departmental contractors in Northern Division and Western Division, Kanara, to deliver the full quantities provided for in their contracts.

The analysis of receipts and expenditure shows that of the receipts 75 per cent. came from major produce, 19 per cent. from minor produce and 6 per cent. from miscellaneous sources; while of the expenditure 24 per cent. was incurred on extension, constitution, improvement and exploitation and 76 per cent. on administrative, executive and protective charges.

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

Circle.	On 1st April 1937.	On 31st March 1938.
	Rs.	Rs.
Northern	49,255	47,152
Central	14,055	8,707
Southern	1,99,189	1,73,669
	2,62,499	2,29,528

The outstandings on account of contractors and disbursers were :—

Circle.	On 1st April 1937.	On 31st March 1938.
	Rs.	Rs.
Northern .. .. .	....	....
Central	40	11
Southern	4,138	4,140
	4,178	4,151

CHAPTER VI.

RESEARCH AND EXPERIMENT.

Research work continued to be under the control of the office of the Chief Conservator the work itself being carried out by the Divisional staff with some assistance from the Working Plans Divisions. The inadequacy of this arrangement, is realised, and the meagre results obtained during past years are proof of it. Little improvement can however be expected until Bombay, like the remaining provinces of India, appoints a special research officer. The Divisional Forest Officers took up for investigation problems of purely local interest under the control of their respective Conservators.

NATURAL REGENERATION.

Evergreen Forest.

The three plots laid out last year in the Bombay sub-tropical evergreen forest at Bhimashankar in the Poona Division with the object of studying the effect on regeneration of (1) removal of undergrowth only and (2) removal of undergrowth and opening of the canopy, were inspected during the year but it is too early yet to record any results.

ARTIFICIAL REGENERATION.

HIRDA (*Terminalia chebula*).

Subject No. 37.—Sowing and planting of *hirda* on laterite soil in the shade of existing shrubs or small trees. (Poona and Satara Divisions).

Two new plots were selected in the Budhele catchment area Vadgaon Range in the Poona Division. In plot I, *hirda* seed was sown in 100 pits, 3 seeds in each pit. The sowing had to be repeated in this plot as the seed originally sown was eaten by white ants. In plot II, 100 transplants were put. Weedings were carried out in July and September. The survivals to end of January 1938 are reported to be as follows:—

Plot No. I	15 seedlings.
Plot No. II	60 transplants.

In the Mahableshwar Range of the Satara Division *hirda* seed was sown in 100 pits, 2 seeds in each pit, during the rains of 1937. Twenty-eight seeds germinated out of which 21 are reported to be surviving in March 1938, the average height of the seedlings being 2 inches. The stump planting had to be deferred owing to the seedlings in the nursery being too small and weak and this work will be taken up in the rains of 1938.

TENDING, THINNINGS AND CLEANINGS.

TEAK (*Tectona grandis*).

Subject No. 34.—Effect of different degrees of thinnings in teak plantations (Kanara, Northern Division, Eastern Division and Western Division).

The next remeasurement is due in 1940-41.

Subject No. 34-A.—To determine the intensity of thinning most suitable for pure teak rabs at intervals laid down in the revised Thana working plan (West Thana Division).

Four plots have been laid out in Salsette Range of the West Thana Division for the purpose of determining the intensity of thinning most

suitable for pure teak rabs at intervals laid down in the revised Thana working plan, i.e. 11th, 26th, 46th and 66th years. The plots have been numbered 34A/A, B, C and D, and the treatment applied is as follows :—

- Plot A—unthinned (control).
- .. B—thinned to "B" grade.
- .. C—thinned to "C" grade.
- .. D—thinned to "D" grade.

The thinnings were carried out in December 1937 after the initial measurements were recorded. Remeasurements are to be taken every fifth year.

Subject No. 34-B.—To ascertain rate of growth of teak in plantations under different spacings (Dangs, Surat).

Two sets of 8 plots each one in Dagdiamba plantation near Subir, North Dangs, and the other in Waghahi, South Dangs, are under observation for studying the rate of growth in teak plantations thinned to different spacings. The plantations, when the plots were formed in 1935, were 7 years old. The plots were thinned in January 1935 as below :—

Plots 1 and 5	..	..	6' × 6' (control)
.. 2 and 6	..	..	9' × 9'
.. 3 and 7	..	..	12' × 12'
.. 4 and 8	..	..	15' × 15'.

The first remeasurement in these plots was taken in January 1938 and the results are given below :—

Average annual increment per tree.

Plots.	1 and 5.	2 and 6.	3 and 7.	4 and 8.
North Dangs (Dagdiamba) ...	.. .58"	.. .76"	1.37"	1.41"
South Dangs (Waghahi) ..	.. .52"	.. .78"	1.29"	..71"

The percentage of girth increment for the several plots is as follows :—

Plots 1 and 5	..	..	21.72 per cent.
.. 2 and 6	..	..	28.72 "
.. 3 and 7	..	..	39.97 "
.. 4 and 8	..	..	22.90 "

The above figures indicate that an average spacing of 12' × 12' is more advantageous in early years so far as girth increment is concerned.

MISCELLANEOUS SPECIES.

Subject No. 16.—Effect of improvement fellings on diameter growth (Dangs, Surat).

The next measurements are due in December 1938. During the year the plots were inspected and the numbers and cross marks on the trees were repainted.

MISCELLANEOUS.

SANDAL (*Santalum album*).

Subject No. 7.—Annual girth increment of sandal (Belgaum and Dharwar-Bijapur Divisions).

Triennial measurement of girth in plots 7A-I to 7A-IV was carried out in May 1937.

The average girth increment per tree per annum for the whole plot from the date of formation up to the last date of measurement is given in the following statement :—

Plot No.	Girth increment in inches per tree per annum.			
	1928.	1931.	1934.	1937.
7A-I	·20	·11	·14	·09
7A-II	·18	·13	·11	·07
7A-III	·23	·22	·19	·09
7A-IV	·19	·13	·10	·07

N.B.—Only those trees registering an increase in girth have been taken into account in arriving at the increment figures.

Subject No. 32.—Correlation existing between the outer girth increment and heartwood increment of sandal (Dharwar-Bijapur Division).

The next measurements and borings in these plots are due in 1938-39.

PHENOLOGICAL OBSERVATIONS.

Phenological observations on teak were continued during the year on sets of 5 trees in each of the Panch Mahals, North Thana, North, East and West Khandesh and Kanara, Northern Divisions. Copies of the records were sent to the Silviculturist, Forest Research Institute, Dehra Dun, after the close of the year.

ENTEROLOBIUM TIMBOWA (Mart) (from the Argentine).

The last year's survival at Mahableshwar is flourishing and has attained a height of 2'-8".

TUNG (*Aleurities fordii*).

All the surviving plants in the teak pole coupes of block VI, Sambrani Range and at Tatwal died in the course of the year due to drought.

In the fresh wet nursery made at Bomanhalli the seed was sown 1' apart in raised unmanured beds. The nursery was fenced, well protected and kept clean of weeds. The seed was watered twice a day. Germination commenced from 26th February 1937 and continued till the end of October, by which time there were 114 plants. Since the growth of these plants was very fast and they were getting congested in their original beds, the nursery was extended and 63 plants were taken out very carefully so as not to cause any damage to the roots and transplanted 3' apart in the extension instead of the distance of 2 feet recommended. In the original beds also an endeavour has been made to keep a spacing of 3' between 2 plants. The transplants were watered in order to assist them to establish themselves. The plants in the original bed, however, were not watered.

Out of a total of 114 germinations, 13 seedlings succumbed between November and March and the remaining are doing well. The maximum height is 71" and average 51".

CHLOROPHORA EXCELSA (from Uganda).

A quarter lb. of seed of *Chlorophora excelsa* was received from the Silviculturist, Dehra Dun, in August 1937, for trial. The seed was tried in East Thana, East Nasik, West Nasik, North, East and West Khandesh and Kanara Northern and Eastern Divisions, but was not successful except in Kanara, Northern Division, where experiments were carried out in four different localities, i.e., Kulgi, Virnoli, Sambrani and Haliyal Ranges. The number of seed sown and other details are given below :—

	Kulgi.	Virnoli.	Sambrani.	Haliyal.
Date of sowing.	16th August 1937 and 30th August 1937.	10th September 1937.	28th August 1937.	31st August 1937.
Number of seeds sown.	500	548	1,900	800
Date of germination.	24th September 1937.	25th October 1937.	30th September 1937.	25th September 1937.
Number of germinations.	40	41	882	242
Maximum height	6"	3"	6"	7"
Condition	Healthy	Fair	Very healthy	Healthy.

The seeds were sown in baskets and planted out when of suitable size. The seedlings in Sambrani Range were planted out in the "Tung" (*Aleurites fordii*) nursery where they are sheltered from the sun and watered twice daily. The condition of the plants of Sambrani is very good while of those at Kulgi, Virnoli and Haliyal is fair. Transplanting will be done early in June and the method of transplanting will be the same as that for teak.

SAMPLE PLOTS.

*Plots Nos. 11, 12 and 13, Narayanpur Block, Narapur Range,
West Khandesh Division.*

These plots were laid out in April 1928 and remeasured in March 1933 and May 1938. Plots Nos. 11 and 12 are $2\frac{1}{2}$ acres each and plot No. 12 was given an improvement felling at the time of formation. Plot No. 13 was clearfelled and patches of teak plantations were made during the succeeding monsoon. During the 10 years the plots have been kept under observation. 33 teak have come up into 6"—12" class in plot No. 11, 29 prior to 1933 and 4 between 1933 and 1938. In plot No. 12 only 11 teak came up into this class in the first 5 years to 1933 while none came up into the class between 1933 to 1938. It therefore seems that the improvement felling in plot No. 12 fulfilled its function in so far as it concentrated increment upon the larger stems without dissipating soil fertility in producing regeneration. The number of teak removed in the improvement felling in 1928 from this plot was 86. How far a heavier felling would have succeeded in putting on greater increment in the larger girth classes cannot be known, nor how serious is the suppression which has evidently occurred in the smaller girth classes. Plot No. 13 has been left untouched since its plantation patches were formed. It has suffered severely from frost, probably due to the unhealthy condition of the plants in consequence of their congested state. Drastic treatment is necessary here and is being looked into.

Raising of matchwood species.

Northern Circle.—An attempt to raise *savar* (*Bombax malabaricum*) by planting cuttings 6" to 8" in girth and 6' in length was made unsuccessfully, in the Panch Mahals, North, East and West Thana and the Dangs Divisions.

EXPERIMENTS CARRIED OUT BY DIVISIONAL FOREST OFFICERS.

Northern Circle.—(1) The attempt made last year to introduce *Cassia siamea* (*kashid*) on the sites of deserted cultivation in the Tansa catchment area in the East Thana Division, was fairly successful. The plants have grown to an average height of about 6 feet and the grass is almost suppressed. Only one weeding was required to be done in the 2nd year as a precaution against fire damage. Due to paucity of seed much progress could not be made in extending the plantations to other similar areas which carry a dense growth of tall coarse grass.

(2) In order to reduce the fire hazard in clear felled coupes where grass grows in profusion, the Divisional Forest Officer, East Thana, had a 5 feet ring cleared round promising groups of teak coppice in one and two year old coupes. The result is stated to be very satisfactory.

CHARCOAL.

Southern Circle.—Preliminary work was undertaken in connection with the introduction of charcoal manufacture on a large scale in the forests of the Circle. Two methods of manufacture are available, the ordinary country kiln and the mechanical process. The art of charcoal manufacture is unknown in Kanara and the local people have to be trained. A small batch of men from the coastal tracts of Kanara, Western Division, is being collected and sent to Belgaum to learn the art. After sufficient training these men are to return to their own district to train others of their community.

Side by side with this, attempts to develop charcoal manufacture on a large scale by the mechanical process are also being made. The purchase of a "Frikiln" was sanctioned. The Frikiln has been purchased from Bombay and another is to be made locally in Belgaum. These are to be used for demonstration purposes in suitable localities and for the collection of all necessary data. It is hoped in time to work up large scale charcoal manufacture in the Circle. Suitable raw material is available and there have been two or three important enquiries for charcoal in large annual quantities.

POLLARDING *tamburni* (*Diospyrus melanoxylon*)

TREES.

The experiment of pollarding trees for obtaining larger and softer leaves was repeated in the East and West Khandesh Divisions. So far the results have been successful, for the leaves from areas selected for the experiment in East Khandesh fetched Rs. 696 against Rs. 604 in the previous year chiefly due to the better quality of leaf available. In the West Khandesh Division also pollarding has produced softer and larger leaves.

SHEEP GRAZING.

Plots 28 and 29 Bhamburda Poonu Division (South Indian Dry mixed deciduous forest Champion's type VII.)

Two plots of 1 acre each were formed in September 1936 to study the effect of sheep grazing in open forests of this type. After enumeration of all stock of tree species on these 2 plots the area was handed over to the Agricultural Department for their sheep breeding experiments. No sheep were grazed on the area between September 1936 and September 1937, so there is nothing to record this year.

SANDALWOOD.

Belgaum Division.— With a view to ascertaining the reasons for poor girth increment of sandalwood in the Division, 3 test plots, with 50 selected sandalwood trees in each, have been laid out in 2 different sandalwood localities in Khanapur Range. The trees in these plots are receiving different degrees of intensity of tending drastic, normal and very slight. The comparative effect on the girth increment of the three treatments to free sandalwood from over-head and side interference is being watched.

The experimental sandalwood plantation raised in the years 1934 to 1936 at Nagargali in the Belgaum Division is in excellent condition. The growth is however too dense and there are insufficient hosts. The area is now to be split up into plots each to receive different treatment with respect to spacing, and number and species of hosts.

Kanara, Northern Division.— An experimental teak plantation of 1 acre in extent was raised in the unorganised non-teak bearing forest of Khodli in Supa Range by planting 950 stumps. In the Amboli unorganised forest of the same Range four plots of 1 acre each were planted with Casuarina. The results of these operations are satisfactory.

HIGH FOREST SEED COLLECTION PLOTS.

To guard against the possibility of seed of bad origin producing crops of poor quality and type, which characteristics, it is believed, do not appear until many years after formation, steps were taken to provide for a sufficient supply of good high forest teak seed for all future high forest regeneration areas. Hitherto teak seed from pole forest areas collected by villagers without proper supervision, has been used for high forest plantations. Areas containing a good percentage of teak of good quality are to be selected in the High Forest of each Division or Range to ensure a sufficient supply of seed for the year's requirements. An improvement felling is to be done in these areas for the benefit of the best teak and the areas are then to be set aside as the teak seed collection plots. A start has been made in Kanara, Eastern Division, where one good area has already been selected for this purpose.

VARIETIES OF TEAK.

During the year a distinct variety of teak was found growing in the Hudsa (Southern Circle) 1924-25 plantation. The strange variety was characterised by a smoother bark, markedly more rapid growth and earlier date of coming into leaf. The origin of the seed was traced back and it was found that the seed of the strange variety came from the Kadra Range where plantations were made in the past with, it is believed, seed obtained from Burma. This variety is growing together with the normal Kanara type in the same plantation. Specimens of leaves and seed of both varieties are being sent to Dehra Dun for botanical comparison while samples of the wood of the two varieties are being sent to the Wood Technologist for examination.

CHAPTER VII.

ADMINISTRATION.

The post of the Chief Conservator was held by Mr. A. C. Hiley, from 1st April 1937 to 11th March 1938 and by Mr. D. B. Sothers from 12th March 1938 to 31st March 1938; and that of the Personal Assistant to the Chief Conservator by Mr. W. E. Pereira, M.B.E., throughout the year.

The territorial Circles were held by the following officers :—

- Northern Circle .. Mr. H. W. Starte, from 1st April 1937 to 17th March 1938.
- Mr. H. P. W. Davis, from 18th March 1938 to 31st March 1938.
- Central Circle .. Mr. J. B. T. Brooks, from 1st April 1937 to 31st March 1938.
- Southern Circle .. Mr. R. W. Inder, from 1st April 1937 to 5th April 1937.
- Khan Bahadur S. N. J. Ratnagar, C.I.E., from 6th April 1937 to 27th September 1937.
- Mr. W. C. de C. Walsh, from 28th September 1937 to 31st March 1938.
- Forest Engineering Branch. Mr. R. V. Alexander, from 1st April 1937 to 21st April 1937.
- Mr. H. C. Holmes, from 22nd April 1937 to 22nd May 1937.
- Khan Bahadur S. N. J. Ratnagar, C.I.E., from 23rd May 1937 to 30th May 1937.
- Mr. H. C. Holmes, from 31st May 1937 to 17th October 1937.
- Mr. W. C. de C. Walsh, from 18th October 1937 to 29th October 1937.
- Mr. H. C. Holmes, from 30th October 1937 to 24th November 1937.
- Mr. R. V. Alexander, from 25th November 1937 to 31st March 1938.

The Divisional charges were held by officers named below :—

Division.	Name of officer.	From	To
Panch Mahals ..	Mr. S. P. Pandya ..	1st April 1937 ..	31st March 1938.
North Thana ..	Mr. G. S. Singh ..	1st April 1937 ..	31st March 1938.
East Thana ..	Mr. J. A. Singh ..	1st April 1937 ..	23rd December 1937.
	Mr. E. K. Kotwal ..	24th December 1937.	17th January 1938.
	Mr. J. A. Singh ..	18th January 1938 ..	31st March 1938.
West Thana ..	Mr. T. K. Mirchandani.	1st April 1937 ..	31st March 1938.
East Nasik ..	Mr. S. N. Kesarcodi.	1st April 1937 ..	31st March 1938.
West Nasik ..	Mr. R. J. Smith ..	1st April 1937 ..	18th May 1937.
	Mr. V. A. N. Sausman.	19th May 1937 ..	2nd October 1937.
	Mr. R. J. Smith ..	3rd October 1937 ..	26th October 1937.
	Mr. V. A. N. Sausman.	27th October 1937 ..	31st March 1938.
Working Plans, N. C.	Mr. J. Walker ..	1st April 1937 ..	31st May 1937.
	Mr. E. K. Kotwal ..	1st June 1937 ..	31st March 1938.
Surcharan Officer, Thana.	Mr. F. X. Saldanha ..	1st April 1937 ..	24th January 1938.
	Mr. H. W. Starte ..	25th January 1938 ..	17th March 1938.
	Mr. H. P. W. Davis ..	18th March 1938 ..	31st March 1938.
East Khandesh ..	Mr. H. J. C. Millett ..	1st April 1937 ..	31st March 1938.
North Khandesh	Mr. A. D. Mufti ..	1st April 1937 ..	20th October 1937.
	Mr. R. P. Dalley ..	21st October 1937 ..	31st October 1937.
	Mr. A. D. Mufti ..	1st November 1937.	23rd December 1937.
	Mr. R. P. Dalley ..	24th December 1937.	17th January 1938.
	Mr. A. D. Mufti ..	18th January 1938 ..	31st March 1938.
West Khandesh ..	Mr. R. P. Dalley ..	1st April 1937 ..	8th March 1938.
	Mr. A. D. Mufti ..	9th March 1938 ..	31st March 1938.
Poona ..	Mr. E. S. B. Tavener	1st April 1937 ..	31st March 1938.
Kolaba ..	Mr. Y. R. Divekar ..	1st April 1937 ..	31st March 1938.
Satara ..	Mr. R. A. Shirali ..	1st April 1937 ..	16th March 1938.
	Mr. R. R. Chaudhari.	17th March 1938 ..	31st March 1938.
Working Plans, C. C.	Mr. E. A. Garland ..	1st April 1937 ..	31st March 1938.

Division.	Name of officer.	From	To
Kanara, N. D.	Khan Bahadur S. N. J. Ratnagar, C.I.E.	1st April 1937	3rd April 1937.
	Mr. H. P. W. Davis.	4th April 1937	15th March 1938.
	Mr. R. J. Smith	16th March 1938	31st March 1938.
Kanara, E. D.	Mr. R. F. Sandeman.	1st April 1937	3rd June 1937.
	Mr. J. Walker	4th June 1937	31st March 1938.
Kanara, W. D.	Mr. E. T. C. Vas	1st April 1937	31st March 1938.
Belgaum	Mr. H. C. Holmes	1st April 1937	22nd May 1937.
	Khan Bahadur S. N. J. Ratnagar, C.I.E.,	23rd May 1937	30th May 1937.
	Mr. H. C. Holmes	31st May 1937	17th October 1937.
	Mr. W. C. de C. Walsh	18th October 1937	29th October 1937.
	Mr. H. C. Holmes	30th October 1937	31st March 1938.
Dharwar-Bijapur.	Mr. W. C. de C. Walsh	1st April 1937	28th October 1937.
	Mr. R. J. Smith	29th October 1937	16th March 1938.
	Mr. R. A. Shirali	17th March 1938	31st March 1938.
Working Plans, S. C.	Mr. H. P. W. Davis	1st April 1937	3rd April 1937.
	Mr. F. A. B. Coelho.	4th April 1937	9th January 1938.
	Mr. R. F. Sandeman.	10th January 1938	31st March 1938.

At the close of the year, the number of officers attached to Divisions as Assistants or Sub-Divisional Forest Officers was 10. Of these 2 belonged to Class I and 8 to Class II.

Mr. R. W. Inder, Conservator of Forests, was granted leave preparatory to retirement.

Khan Bahadur S. N. J. Ratnagar, C.I.E., officiating Conservator of Forests and Mr. F. X. Saldanha, Deputy Conservator of Forests and Gurcharan Officer, Thana, retired from service on 28th September 1937 and 25th January 1938 respectively. The title of C.I.E. was conferred on the former in January 1938.

Messrs. S. P. Pandya, T. K. Mirchandani and S. N. Kesarcodi were appointed to officiate in Class I and Mr. L. V. Gonsalves, I Grade Ranger in the Central Circle, was promoted to Class II.

Two prizes of the value of £25 each for 1936 from the Currie Scholarship Fund were awarded to Messrs. J. V. Karamchandani and Hari Singh, Deputy Conservators.

The gazetted forest service cadre remained a joint one for Bombay and Sind and it was decided that this arrangement should remain in force up to 1st April 1942.

SUBORDINATE AND CLERICAL SERVICE.

The 7 Ranger students sent to the Madras Forest College, Coimbatore, for training in the 1935-37 course passed the final examination with Higher Standard Certificate, and one of them Mr. B. D. Nadkarni, with honours, having headed the list of successful students. He and Messrs. N. P. Choksi, S. F. Uppin and D. M. Mannige also carried away several prizes. Two of the 7 students were posted to the Northern Circle, two to the Central Circle and three to the Southern Circle.

Six students were selected for the 1938-40 course.

The Foresters' Class at Mandvi in the Northern Circle was, as usual, conducted by a Ranger. Out of 24 students admitted (14 from the Northern Circle and 10 from the Central Circle) 4 were sent back as it was found that they could not follow the course: out of the remaining 20 students 17 passed the final examination. The annual course for training foresters and guards in the Southern Circle under selected Rangers was continued and 10 out of 11 subordinates passed the test.

The work of the Rangers, subordinate protective and clerical staff is reported to be satisfactory.

One round guard and two beat guards in the East Thana Division were prosecuted by a villager under sections 504 and 352 of the Indian Penal Code, but were acquitted by the Magistrate. These subordinates were given legal assistance.

One beat guard in the North Thana Division was assaulted by some villagers of Pavan in the Dahanu Taluka. The villagers concerned are being prosecuted in the Magistrate's court at Palghar.

The following table shows the casualties and punishments etc. in the three Circles. :—

Particulars.	Northern Circle.	Central Circle.	Southern Circle.	Total.	
				1937-38.	1936-37.
1. Retirements	45	35	20	99	69
2. Deaths	7	6	12	25	32
3. Resignations	13	5	..	18	17
4. Degradations	29	18	1	48	51
5. Convictions	3	..	..	3	..
6. Dismissals, removals etc.	15	9	4	28	32
Total	112	72	37	221	201

Except at places notorious for bad climate where ill-health is common among the subordinates, the health of the staff was reasonably good. The supply of water bottles to the protective establishment in the Kolaba Division had a good effect in minimising the danger from "guinea worm".

MEASURES TO SUPPRESS CORRUPTION.

The Government servants' Conduct Rules and circular orders issued thereon were, from time to time, explained to the subordinates and the actions of those suspected of a tendency towards corruption were closely watched. The Divisional Forest Officers and their gazetted assistants scrutinised expenditure, checked measurements of work done and satisfied themselves, by close inspection of as many works as time permitted, that full value is received for the money spent. Encouragement was also given to the public to report freely any action of harassment on the part of the subordinates. All applications including those from anonymous correspondents were promptly enquired into and the subordinates found guilty were suitably dealt with. Six monthly statements showing the cases disposed of or under enquiry are submitted to Government in accordance with their orders.

No complaints regarding short payments or non-payments for camp supplies were received during the year under report.

INSPECTIONS AND TOURS.

The Conservators of Forests inspected all the Divisional Forest offices in their respective circles. No serious irregularities were noticed except in the East Khandesh Division where the office work was found to have been carried on in a very irregular and arbitrary way by the Head Clerk without proper regard to the correct office routine and procedure. Several serious irregularities were noticed, as a consequence of which the clerk concerned had to be removed from his position and ordered to do account work in another division.

His Excellency the Governor of Bombay visited Yellapur and other Kanara forests in May 1937 and also Nagargali in the Belgaum Division.

The Honourable Revenue Minister paid a visit to the Ghodasgaon Wild Life Preservation area in the East Khandesh Division and to the Kanara forests of the Southern Circle and inspected important forest works.

The Inspector General of Forests with the Government of India visited the Kanara forests in the Southern Circle and Thana Forests and Nandgaon agri-cum-forestry plots in the Northern Circle. His inspection note is still awaited.

The Chief Conservator toured in all the circles.

CIVIL SUITS.

Northern Circle.—The second appeal filed by Khan Bahadur Sadwa was dismissed with costs by the High Court at the close of the year. The suit filed by Mr. G. N. Mohite was also dismissed with costs but he has appealed. The suit filed by Messrs. N. V. and A. V. Koparkar was decided and the plaintiffs were declared to be the owners of the teak trees and their aftergrowth in Survey Nos. 122 and 123 of Patgaon, taluka Murbad, and were awarded costs. The decision was acquiesced in by Government.

Central Circle.—The Tambdi Malki Teak case of the Kolaba Division referred to in the last year's report was dismissed with costs. The civil suit filed by Mr. P. D. Billimoria for wrongful dismissal and damages was withdrawn by him with the permission of the court, which awarded Government its own costs.

A fresh suit has been filed against Government and the Divisional Forest Officer, Kolaba, personally by a contractor, Mr. S. N. Pithawala of Bombay, for damages on account of alleged instigation of labourers working in his coupe in the Nagothna Range.

Southern Circle.—Of the two appeals referred to in the last year's report, the one filed by Government is still pending, while in that filed by Mr. A. R. Yellapur, the High Court reversed the decree of the lower court and sent the case back to the trial court for allowing him an opportunity to amend the plaint.

LAND REVENUE ADMINISTRATION.

The Divisional Forest Officer, West Nasik, continued to function as Assistant Collector and Excise Superintendent of Peint Mahal.

The excise and revenue administration of the Akrani Mahal as well as the revenue administration of Pal and a few other villages in East Khandesh was carried out by the Forest Department as usual. The Raisingpur Estate continued to be managed by this Department under the Court of Wards.

The revenue administration of the Dandeli, Kulgi, Virnoli and Kirwatti Mahals in Kanara, Northern Division, and Eastern Division continued to be in the hands of this Department.

Kumris (SHIFTING CULTIVATION).

The Divisional Forest Officer, Belgaum, inspected many of the *Kumri* villages in his charge and complaints were enquired into and removed wherever possible. At the request of the villagers of Mendil in the Khanapur Taluka some changes in the original assignment of *Kumri* land for the village sanctioned in Government Resolution, Revenue Department, No. 4755 of 28th March 1927, were proposed and submitted for the sanction of Government through the Collector of Belgaum.

VILLAGE PANCHAYATS.

The four panchayats in Kanara, Northern Division, worked satisfactorily.

Some of the 13 panchayats in Kanara, Western Division, do not appear to take sufficient interest in the management of the property entrusted to their care. The Collector of Kanara remarks as follows :—

“Some of the panchayats, viz. the Murur, Halkar, Vannalli, Alvalli and Chitrige panchayat in Kunta taluka appear to be making good progress. On the other hand some panchayats, e.g. Valgalli-Kalkeri-Harodi and Gonehalli in the same taluka have done no work during the last two years. The Prant Officer, Southern Division, is being asked to warn those panchayats to show better progress during the current year. In case they continue to remain inert the question of dissolving them will be considered next year.”

DANGS FOREST ADMINISTRATION.

Though the Surat Dangs were transferred to the control of the Government of India with effect from 1st July 1933, they continue to be administered by the staff of this Department. His Excellency the Crown Representative, issued orders during the year, terminating with effect from 1st April 1937 the leases entered into by the Bombay Government with the Dangs Chiefs and transferring to the Bombay Government the surplus of revenue from the Dangs to end of March 1937 after which it will form part of the revenues of the Government of India. The conditions governing the loan of services of the Bombay Government staff serving in the Dangs are still to be decided.

RELATIONS BETWEEN THE FOREST DEPARTMENT AND OTHER DEPARTMENTS.

These continued to be cordial as ever.

CHAPTER VIII.

GENERAL REMARKS.

Over a large percentage of the area under working plans the system of management in the last 20 years has changed from a simple form of selection system, or from coppice with standards to the uniform system combined with a considerable amount of artificial regeneration. Where the selection system is still in force proper attention is now given to the growing stock as a whole and operations are not confined to the removal of mature and marketable trees. The proper tending of these young crops of from 1 to 20 years old under the uniform system is a problem which the department finds of increasing difficulty with every year that passes.

The abolition of the grazing fee has provided the Department with a second problem for which it is urgent to find a rapid solution. The fee charged over the greater part of the more important grazing area was annas 4 per head for bovines. A small fee, but since its abolition it has become apparent that it did have some effect in the control of the number of animals admitted to graze, particularly in those areas where this number had already reached the danger mark. These areas comprise roughly Khandesh, East Nasik, Poona and Satara. In many forests in these areas overgrazing with its accompanying evil of erosion and general deterioration is now going on : the need for some system of control which will prevent the acceleration of this process is urgent.

Bombay unlike nearly every other province in India has no Sylviculturist or research officer to assist the divisional staff with these problems. Nor has Bombay like most other provinces a Utilization officer to provide that very necessary link between the producer of the raw product and the industry which utilises it.

Considerable economies in staff, expenditure and number of Divisions have been effected during the past 15 years, and during the year under report Government ordered that the question of further retrenchment should be considered. The lines on which this retrenchment was to be organised were :—

- (1) the amalgamation of 3 Khandesh Divisions into 2,
- (2) the amalgamation of Poona and Satara Divisions,
- (3) the abolition of 1 Working Plans Division,
- (4) the abolition of 1 Gurcharan Officer,
- (5) the abolition of 4 Sub-divisional Officers.

Final orders on these proposals were not passed until after the end of the year.

The Department is therefore in the position of having to face an increasing programme of work with a steadily decreasing cadre of gazetted officers. Under these conditions a feeling that the present staff may not be able to carry out successfully all that it would like to do is not entirely unjustifiable.

Apart from the loss of revenue caused by the abolition of the grazing fee the financial results of the year's working were on the whole fair and neither better nor worse than was expected. Markets for most forest products in the Northern and Central Circles were reasonable. In the Southern Circle markets declined somewhat, but were showing an improvement at the close of the year. In so far as business with the M. & S. M. Railway was concerned, an increased demand for teak logs and sawn timber was offset by a decline in the indent for M. G. sleepers. Sandalwood revenue figures show an improvement, though it is doubtful whether any actual rise in the market occurred. The system of retail sales introduced was possibly partly responsible for the increase in revenue realised.

INFOREST CULTIVATION AND INFOREST SETTLEMENTS.

A sum of Rs. 19,728 was recovered as assessment in the Northern Circle, while in the Central Circle Rs. 37,963 were recovered from 125 settlements in the Khandesh Divisions against which a balance of Rs. 2,695 is outstanding. Out of the settlements in East Khandesh one in Raver range continued to be deserted. The settlers' crops both in the Northern and Central circles were fairly good. The assessment on lands in the Central Circle was fixed on a permanent basis during the year.

The work of remeasuring the areas in the settlements of North Khandesh was not completed during the year and the question of transferring the completed settlements to the Revenue Department is deferred till 1940 when it will be decided finally.

Out of the total *tagai* (loans for improvement of land) grants of Rs. 4,240 including Rs. 1,800 given in the year and Rs. 2,440 outstandings of the previous year, a sum of Rs. 1,050 was recovered, and the balance of Rs. 3,190 is still outstanding against the settlers in the North and West Khandesh Divisions. No *tagai* grants were given in the Northern Circle and in East Khandesh. From the outstandings of Rs. 131-5-0 of the previous year in East Khandesh, Rs. 69-5-0 were recovered, Rs. 57 being irrecoverable were written off under orders of the Collector and Rs. 5 are still outstanding.

Dalhi (shifting) cultivation.—The total area, viz., 27,777 acres under *dalhi* cultivation in the Kolaba Division remained unchanged and the total assessment (including the arrears of the past year) collected during the year was Rs. 3,199-8-2; Rs. 51-13-0 were remitted in consideration of the total failure of the crop of *nachani* (hill millet) in Bhedasgaon-Kalamboli *dalhi* lands. The outstandings at the close of the year were Rs. 421-4-4.

FOREST ADVISORY COMMITTEES.

Northern Circle.—No meetings were held in the Panch Mahals and Thana Districts as there were no subjects for discussion. In the Nasik District one meeting was held on 13th August 1937. Questions regarding (1) the appointment of a propaganda officer for explaining the forest policy of Government and (2) silage making were discussed. Questions raised by some of the non-official members in connection with the reduction of grazing fees, their refund, reduction of the rates of fees fixed for the removal of *anjan* (*Hardwickia binata*) leaves, preservation of *anjan* trees, alleged harassment of persons carrying headloads of firewood for sale were discussed and the exact position in regard to these matters was explained.

Central Circle.—No meeting was held in West Khandesh. The meeting proposed to be held in Jalgaon (East Khandesh) had to be cancelled for want of subjects. One meeting was held at Alibag on 17th December 1937 in which Mr. R. N. Mandlik, M.L.A., proposed that Gavan kurau, which was hitherto sold to the villagers at 3 years' average price, should

be given to them free for grazing. This proposal was passed unanimously and given effect to after the close of the year.

Southern Circle.—Two meetings were held, one in Kanara and the other in the Dharwar District. Of the 3 proposals put up by the non-official members, who attended the meeting of the Dharwar District, two had already been discussed and decided at previous meetings and the third concerning the abolition of grazing fees was under the consideration of Government. Certain further concessions to gun clubs proposed by the Deputy Director of Agriculture were discussed and unanimously approved. It was decided to forward the proposals to the Commissioner.

In all 13 questions were before the Kanara meeting. One was withdrawn and one was beyond the scope of the committee. The remainder were discussed and decided to the satisfaction of the Committee.

During the year under report, Government revised the constitution of these Committees as follows :-

Officials.

Non-officials.

Collector.

All members of the Bombay Legislative Assembly from the district not including those whose constituency is larger than the district (if they are residents of the district).

Divisional Forest Officers.

An Officer of the Agricultural

Two members elected by the District Local Board.

Department.

A leading agriculturist from each forest division nominated by the Collector.

WOOD DISTILLATION.

The Bharat Wood Distillation Factory.—Apart from construction work progress was far from satisfactory. Out of 44,000 C.ft. of wood cut less than 2,000 C.ft. of wood were put through the stills. The prospects of the industry are not at present hopeful, but it is perhaps early as yet to pass a final judgment.

ALNAVAR-DANDELI RAILWAY.

The results of the working of this Railway for the year 1937-38 as compared with those of 1936-37 are as under :—

Year.	Receipts.	Expenditure.	Surplus. or deficit.
	Rs.	Rs.	Rs.
1937-38	88,419	41,926	+46,493
1936-37	26,483	37,937	-11,454
Difference	61,936	3,989	

The result of the year's working is very encouraging. The receipts and expenditure increased by Rs. 61,936 and Rs. 3,989 respectively and there was a surplus of Rs. 46,493 against a deficit of Rs. 11,454 in 1936-37. The exceptional improvement in the financial results of the railway is due partly to the adjustment of Rs. 46,467 on account of freight on railway materials short credited to this branch line during the years 1931-32 to 1936-37 and partly to the railment of manganese ore by the mining concessionaires and improvement in bamboo trade.

Thana Malki teak.—The 30 per cent. share amounting to Rs. 56,366 paid to the District Local Board, Thana, up to the end of the year 1937-38 has not yet been utilised. A standing Committee, with the Collector as Chairman and the President of the District Local Board and the three Divisional Forest Officers as members, met on 3rd November 1937 and decided upon a programme of works to be undertaken from the above amount. The work of preparing estimates for these works was entrusted to the District Local Board Engineer, but it is reported that no work has yet been done. This delay is very unsatisfactory as the proposed works are intended to improve communications and water supply in a number of villages.

GRASS STORAGE (UNDER 9 YEAR MONOPOLY CONTRACT).

The balance of 26,64,751 lbs. of grass at Dohad depot was sold for Rs. 6,777-1-9. No expenditure was incurred on this account. Some vacant sheds were rented out and a sum of Rs. 505 was realised therefrom.

LOCAL GRASS STORAGE SCHEME.

The contract of the defaulting contractor referred to in the last year's report was suspended by the Divisional Forest Officer, Panch Mahals, for breach of certain conditions. It was subsequently terminated. The grass storage, therefore, now stands at 9½ lakhs lbs. of grass.

DEMARCATON SURVEY NUMBERS.

As decided by Government steps are being taken to acquire I class survey numbers within the forest demarcation line in the Poona and Satara districts in consultation with the Collectors. A regular programme of 10 years for the acquisition of these numbers was fixed during the year and necessary funds for the first year have been provided for 1938-39.

CATTLE BREEDING AND POULTRY FARMING.

The Giligan Cattle Breeding Society at Pimple in the East Khandesh Division continued to render good service to the agriculturists. There were in all 189 head of cattle in the farm against 157 in the previous year. The Society applied for the other half of Pimple kuran as the half

already granted to it was found insufficient. It was recommended to Government that the additional area should be given to the Society at Re. 1 per acre under certain conditions and this was sanctioned after the close of the year.

An area of 100 acres of organised forest in the Belgaum Division was given out in 1936 on *hangami* (temporary) tenure to Rao Saheb V. A. Desai for the establishment of a cattle breeding and poultry farm. The land has been cleared and is under cultivation but there are no signs of development along the lines originally intended. The land will not be disforested until all conditions are fulfilled.

As a part of the village uplift scheme under the Agricultural Department a forest area of about 75 acres known as Goliskop kuran, 2 miles from Bagalkot in the Bijapur District, was handed over to the Department of Agriculture in connection with a scheme to improve the breed and the milking qualities of local buffaloes.

HUNTING AND SHOOTING.

The revenue realised from shooting license fees amounted to Rs. 7,235 as against Rs. 7,488 last year. In addition Rs. 25 were recovered as fine in the Southern Circle.

Details of animals killed are given below :—

All India serial No.	Animal.	Northern Circle.	Central Circle.	Southern Circle.	Total.	Average of 5 years 1932-33 to 1936-37.
1(a)	Tiger	1	4	18	23	36
1(b)	Tigress	1	4	6	11	3
2	Panther	12	16	31	59	75
3	Wild cat .. .. .	..	..	1	1	1
6	Hyena .. .. .	..	3	..	3	1
8	Wild dog .. .. .	..	..	..	..	3
14	Sloth bear .. .. .	..	4	1	5	13
15	Wild elephant .. .. .	..	..	11	11	19
17	Bison .. .. .	..	..	19	19	21
29	Blue bull	1	43(a)	..	44	14
30	Bluekar (4 horned antelope)	..	3	..	3	3
32	Chinkara .. .. .	..	3	..	3	2
33	Barking deer	1	..	1	2	2
37	Sambhar	3	2	10	15	14
38	Cheetal	4	12	9	25	12
46	Wild pig	11	356(b)	375(c)	742	418
	Total ..	34	450	482	966	637

(a) Includes 42 blue bulls killed by the gun club in East Khandesh.

(b) Includes 306 wild pigs killed by the gun clubs in East Khandesh, 15 by Piloba Dhondiba Dhumal and 35 by Palashi-Kolavdi gun club in the Satara District.

(c) Includes 301 wild pigs killed by gun clubs in the Dharwar District, 6 by gun clubs in the Belgaum District and 28 by gun clubs in the Kanara District.

During the year, the protected forests in the Thana District were brought under the game rules subject to the proviso that the agriculturists who hold gun licenses for crop protection will be entitled to shoot pig and *nilgai* only in the protected forests falling within the areas of their licenses.

A labourer who was attacked by a boar in Kanara Northern Division died from his injuries in hospital. One person in Chandgad Mahal was injured by a panther.

A man-eating tigress had killed five people within a short period in the Konar jungles of Bhatkal Petha—Kanara Western Division, and the Collector of Kanara offered a reward of Rs. 50 to the person killing this animal. A local Shikar party of about 80 people was organised. This party led by the Police Sub-Inspector and by the officiating Range Forest Officer, Bhatkal, Mr. Abdulgani Mahmud Isuf Mandlik set out to hunt the man-eater. A beat was arranged in which the tigress was despatched at close quarters by Mr. Mandlik from his position on the ground. The courage displayed by Mr. Mandlik on this occasion greatly impressed the local people who appealed that Mr. Mandlik's act be recognised in some more substantial manner. This resulted in the increase of the reward from Rs. 50 to Rs. 100. The measurements of the man-eater were—length 9', height 3'-6".

INCREASE OR DECREASE IN THE NUMBER OF WILD ANIMALS OR BIRDS.

Northern Circle.—The Divisional Forst Officer, North Thana, reports that game in his division has practically become extinct and that wild birds are rarely found. In East Thana tigers are reported to be very few. Scarcity of wild life is also reported from East Nasik, while in Mandvi Range fewer animals were noted than usual. This was possibly due to a decrease in immigration from Baroda, where little shikar was done during the year.

Central Circle.—No change in the animal or bird population was noticed in any Division of the Circle except in the East Khandesh and Satara Divisions. In East Khandesh there was a large increase in animals and peafowls at Ghodasgaon. *Chinkara* and four horned antelope showed a marked increase, about $33\frac{1}{3}$ per cent., in the Satpudas. Elsewhere the number of game birds seem to have decreased. In the Mahableshtar. Range of the Satara Division, *sambhar* appear to be on the increase, while in the Dhebewadi range of the same division the number of *cheetal*, *sambhar* and panther decreased. There was no change elsewhere in the division.

Southern Circle.—In Kanara Northern Division a decrease in carnivora and an appreciable increase in bison in High Forests is reported. Tiger and panther have decreased while *cheetal* and *sambhar* have increased in the interior forests in Eastern Division Kanara. In the Dharwar District, there was a decrease in pig. No change was noticed elsewhere.

Rewards amounting to Rs. 764 were granted by the Revenue Department for killing noxious animals in Kanara, Belgaum and Dharwar Districts :—

				Rs.
Wild elephant	..	..	..	575
Wild dog	..	..	..	5
Wild pig	..	..	..	184
				764
			Total ..	764

GUN CLUBS.

Three new gun clubs in addition to the one established in May 1936, were formed in East Khandesh under the technical advice of Mr. Bhide, the Shikar Officer, and Mr. Gosavi, the Agricultural Overseer. These clubs were given permission to hunt and shoot pig and *nilgai* in Ghodasgaon, Chikhali and Sarole, etc., kurans and coupes of scrub felling series No. II with a view to giving relief to the agriculturists. Out of the three clubs in the Satara District, one at Palashi-Kolavdi applied for the grant of the grass area of 4 closed coupes in their village on cutting terms at a concessional price of Rs. 150. The request was granted as the financial condition of the club was far from satisfactory.

In the Southern Circle two new clubs were organised in the Belgaum District. The period for hunting pig was extended to the end of January and the condition of giving 24 hours' notice of intention to hunt was relaxed subject to certain conditions. The Collector of Belgaum remarks as follows on the gun clubs in his district :—

“The mildly expressed criticism of the Divisional Forest Officer that the gun clubs in the district are not under adequate control appears to be justified. There is evidence available that these bodies function but only spasmodically and it is still not clear that they possess any appreciable value or are likely to prove an effective check against pig.”

The number of animals killed by the various clubs are given in the foregoing statement and the note thereunder.

Malki forests.—The Divisional Forest Officer, Kolaba, remarks as under on the question of preservation of malki forests :—

“The khoti question is at last nearing a satisfactory solution with the decision of Government to introduce legislation to fix the share of the khot at one-third of the net revenue after deducting all expenses including the expenses of management. It is hoped something similar will be done with the extensive malki forests in this Division. Recently Government wanted to know if the bare and barren Deccan hills could not be planted up on the lines of similar hills in Italy, which the Italian Government have been planting in recent years. It is a much easier task and, in the interest of the community as a whole, a more urgent necessity for Government to obtain (like the Italian Government) control over these private forests so that they are

preserved and the present denudation with the ultimate erosion that denudation leads to, is checked betimes. For the malki forests too are on slopes and need to be protected from ruthless over-cutting."

FOREST EXHIBITIONS.

Timber specimens and other forest products were exhibited at the Central Exhibition held at Wai in the Satara District in October 1937.

In the Agricultural show at Bandhan in the Manor Range of the Northern Circle, the bad effects of uncontrolled grazing were shown by means of clay models among other exhibits. The villagers were also shown by means of diagrams and pictures how forests prevented land slides on hills and the silting up of the cultivable land below.

An important event of the year was the "Karnatak Agricultural and Industrial Show" held in Belgaum in January 1938. The Forest Department took a big part in this and besides exhibiting a large and varied selection of interesting exhibits gave valuable assistance to the Show Committee by providing the large requirements of bamboos (at concession rates) and boards (on loan) for the stalls for other exhibitors. The exhibit which attracted most attention was the small timber house designed and constructed by the Forest Engineer. This is the portable model that was used at the 1937, Industrial exhibition at Poona. Most of the smaller forest exhibits were displayed in this house. These consisted of a large variety of minor forest produce exhibits, sandalwood, ebony and ivory carvings, sandalwood billets, locally made teak and blackwood furniture, figured teak and matti (*Terminalia tomentosa*) planks, and many other articles of interest. Larger exhibits were displayed in the ground outside the house. These also were of a varied nature:—Saw mill equipment, logs of various species, a model timber cart, an Ascu plant, a round teak pole timber bridge, etc. There was also a small forest nursery. An important feature of the Forest Section was the demonstration of the working of the Ascu plant. Junglewood poles of different species were treated in the grounds and the item attracted wide interest.

The general organisation of the Forest Section of the Exhibition was placed under the Working Plans Division, Southern Circle. Messrs. R. F. Sandeman and F. A. B. Coelho with the assistance of a small staff which included Range Forest Officer, Mr. M. V. Warti, were responsible for this. The Forest Engineer, Mr. R. V. Alexander was responsible for the erection of the Forest House, the construction of the teak pole bridge, the flood lighting of the house, the Ascu plant and other engineering exhibits, while the Divisional Forest Officer, Belgaum, Mr. H. C. Holmes arranged for the Forest nursery. Mr. Holmes also had other important duties in connection with the preliminary arrangements. The credit for the great success of the Forest Section of the Exhibition is due entirely to the good work of these Officers. The Forest Engineer received an award certificate for his Exhibit while a II class certificate was awarded to the Dharwar Central Sandalwood Depot for its sandalwood exhibits. The

co-operation of local manufacturers in providing finished articles such as furniture, etc. for exhibit contributed much towards the attractiveness of the Forest Section.

INDUSTRIES.

Match manufacture.—Only 2 matchwood coupes were sold, one in North Thana Division for Rs. 665 and the other in the Mandvi range of the Surat Sub-Division, at a concessional rate of Rs. 2-11-0 per cartload subject to the payment for a minimum number of 100 cartloads. In neither of these cases did the contractor remove any material. The matchwood coupes in the Panch Mahals, and East and West Thana divisions remained unsold due to lack of demand.

Glass Bangle Industry.—In order to revive and assist the glass bangle industry at Ghodgeri in the Belgaum district the grant of a fuel coupe at a concessional rate to the Kajgar Co-operative Industrial Association. Ltd., was recommended to Government whose orders sanctioning the same were received after the close of the year.

Basket making industry.—In order to help the basket making industry in the Dharwar district a recommendation has been made to grant bamboo at a reduced rate to those engaged in the industry.

Paper manufacture from bamboo pulp.—Preliminary work in connection with the survey of bamboo supplies available for a paper pulp factory in Kanara was undertaken.

VILLAGE IMPROVEMENT SCHEME.

It is gratifying to be able to record that much good work in the matter of village improvement has again been done this year by all grades of forest officers throughout this province. Villagers were assembled and lectures given on a variety of subjects not merely pertaining to forests but also on such topics as the necessity for and value of education, sanitation, pure water supply, etc. By means of interesting "talks", clay models, charts, posters, diagrams and on occasions on which the village uplift van visited various localities and also through the medium of the press, endeavours were made to explain to as large an audience as possible the nature and extent of forest privileges, the evils of overgrazing and late fires, the advantages of stall feeding and rotational grazing, the dangers of erosion and floods resulting from denudation and the obvious necessity for preserving and improving forests.

The response to these activities is encouraging. There are concrete instances where at the suggestion, and under the guidance of, forest officials, villagers have repaired roads, cleared ground round dwellings and water sources, planted trees, etc. and the indications are, judging by the degree of co-operation of the people in matters of common interest, that a better forest sense is very gradually being developed. To enable the Village Uplift Committee to function effectively, free grants of timber and other forest produce were made for works of public utility.

FOREST PRIVILEGES.

In addition to the abolition of grazing fees on all cattle except those coming from Indian States, and other provinces, as already mentioned earlier in this report, Government have, in passing orders on the report of the Forest Grievances Committee appointed in February 1935, sanctioned certain additional forest privileges the more important of which are as follows :--

(1) The concession of removing free of charge stones and earth from places approved by the Divisional Forest Officer for the gatherers' own domestic or agricultural use, which was in force up to now in one or two districts, has been extended to forest villages throughout the Province.

(2) The use of carts has been permitted for removing earth, stone and fallen leaves, throughout the Province and for removing thorns in the districts of Thana, Broach and Panch Mahals, Dharwar and Belgaum, all of which could formerly be removed by headloads only.

(3) The occupants of rice lands in the above-ghat talukas of the Kanara District have been permitted to remove leaves (*soppu*) from minor forests on the same conditions as are applicable to the exercise of that privilege in the below-ghat talukas of that district.

(4) The privilege of removing fallen leaves and grass from open forests for *bona fide* agricultural and domestic uses but not for sale or barter is extended to the inhabitants of all forest villages in the Province.

(5) In Kanara no teak plantations are to be raised within half a mile of the village site and $\frac{1}{2}$ mile of cultivated or cultivable land paying assessment to Government.

Further, Bhils and other aboriginal tribes in Khandesh have, under certain conditions, been granted the concession of removing dead wood other than teak, *khair* (*Acacia catechu*) and *tiwas* (*Ougeinia dalbergioides*), on payment of half an anna per headload, for sale or barter.

Remarks of Divisional Commissioners on Circle Reports are given below :--

Commissioner, Northern Division (Mr. V. S. Bhide, I.C.S.).

NORTHERN CIRCLE.

It is satisfactory to note that the Ozar-Saiwan Road and the Khardi Parali Road, the necessity and importance of which, were emphasised by the Commissioner in his review in the Administration Report for 1935-36, have been sanctioned and now await the allotment of funds. The Commissioner hopes that it will not be long before the necessary funds are allotted and the work taken in hand.

2. Various reasons have been assigned for the increase of forest offences over last year's figures. The increase over last year's figures is, however, not great and calls for no special remarks, so far as this Division is concerned.

3. The Commissioner finds that the percentage of cases disposed of in the courts has steadily increased, the present figure, viz., 67 per cent. being the highest achieved since 1935-36. Even so the Commissioner feels that efforts must be made further to reduce the number of cases remaining over at the close of the year.

4. There has been a decrease of Rs. 1,73,924 in the surplus from Forest revenue as compared with the previous year and this has been mainly attributed to the abolition of grazing fees, whereby revenue to the extent of about Rs. 1,25,000 has been sacrificed; the revised method of selecting for disposal in the III thinning only the old and decaying trees is also partly responsible. Under this method though more timber was actually disposed of than last year its value was actually about Rs. 31,000 less.

5. Last year the Commissioner (Mr. Garrett) commented on the dilatoriness of the District Local Board, Thana, in putting up a programme for the utilization of the monies received as bonus from the sale proceeds of the Thana Malki Teak. It appears that though a programme has been agreed to no effective steps have been taken by the District Local Board during the year to carry out the works which are intended to improve communications and water supply in a number of villages.

6. The Commissioner is glad to note that the Forest Officers continue to devote time and labour to village uplift and also do propaganda as regards the benefits accruing from proper forest conservation.

Commissioner, Central Division (Mr. J. W. Smyth, C.S.I., C.I.E., I.C.S.).

NORTHERN AND CENTRAL CIRCLES.

1. *Housing Accommodation.*—Housing accommodation for Forest subordinates particularly in the bad climate area should be provided as soon as funds are available.

2. *Rights, Privileges and Free Grants.*—During the year free grants of timber were made to poor people in deserving cases for the construction of and repairs to their houses and huts in both Circles. In the Central Circle such grants were also made for the construction of and repairs to temples, chawdis, mission schools, etc., these being works of public utility. Stone (metal), etc., worth Rs. 31,560 was given free to the Public Works Department and Municipalities for the construction of roads. The concession of removing stones and earth free of charge from places approved by the Divisional Forest Officer for domestic or agricultural use has been extended to forest villages throughout the Province.

3. *Forest Offences.*—Compared with 1936-37 there was a decrease of 1,094 offences in the Central Circle and an increase of 676 in the Northern Circle. The decrease in the Central Circle was noticed under the marginally noted heads. There was however an increase in Satara Division under the heads (1) and (2). The increase under (1) is attributed to the greater vigilance of the Forest subordinates in bringing offences to light. The increase under (2) was due to a wrong impression created in the minds of the public that the closed areas also were thrown open to grazing on the abolition of grazing fees and the grant of free grazing for all village cattle. The decrease under the head "Others" was due to a smaller number of breaches of the Transit Rules being detected. The increase in the Northern Circle occurred mainly in the East Nasik Division and the West Nasik Division. Owing to the abolition of grazing fees the subordinates in the Nasik Divisions were able to devote more time to patrolling, and this enabled them to detect larger number of offences under the head "Unauthorised fellings".

1. Unauthorised fellings	.. 366	
2. Unauthorised grazing	.. 453	
3. Other offences	.. 287	

4. *Prosecutions.*—Out of 146 cases in the Central Circle 107 were decided. Convictions were recorded in 99 cases as against 134 in the previous year. Apart from this 6,512 cases were compounded in the Central Circle and yielded Rs. 35,529 in compensation.

5. *Protection from Fire.*—The total area burnt in the Central Circle during the fire season ending May 31st, 1938 was 227 square miles as against 144 square miles in the previous year. Persons using roads, cart tracks, etc., passing through Forests were responsible for a certain number of accidental fires. External fires crossing fire traces were responsible for the big fires in the Satpudas in the East Khandesh Division early in June 1937. The increase in the number of fires was also partly due to the fact that grass was not removed in abnormal quantities as it was in the previous year. There were no cases of communal punishment in either Circle.

6. *Protection of crops from wild animals.*—The Gun Clubs in East Khandesh District appear to have made satisfactory progress in the destruction of pigs and nilgais.

7. *General Remarks.*—There was a decrease of Rs. 2,76,988 in the gross forest revenue in the Central Circle. It is attributed to (1) the abolition of grazing fees and (2) the transfer of Mandvi Sub-Division to the Northern Circle.

The special feature of the year was the abolition of grazing fees and the consequent refund of the fees already collected (*vide* Government Resolution, Revenue Department, No. 4217 of September 22nd, 1937). In the Central Circle alone an amount of Rs. 1,28,831 was refunded.

With a view to reducing the pressure of grazing by cattle coming into Khandesh from State territories along the Agra Road a special scheme for rotational grazing in the East Shirpur Range has been introduced.

The co-operation on the part of the Forest Department with the villagers and the various Village Improvement Propaganda Sub-Committees continued as before.

The Surgana Durbar has agreed to the construction of a road through its territory from Palsan to Kotala. This will open up the market for the North Peint coupes and result in a material improvement in coupe prices realized.

The question whether the Akraui and Peint Mahals should continue to be administered by the Forest Department is under consideration.

Commissioner, Southern Division (Mr. D. MacLachlan, I.C.S.).

SOUTHERN CIRCLE.

The gross revenue and expenditure were Rs. 18,49,871 and Rs. 10,03,241 respectively as against Rs. 18,90,160 and Rs. 11,17,570 respectively during the previous year. The fall in gross revenue was more than counterbalanced by the fall in expenditure so that the surplus amounted to Rs. 8,46,630 as against Rs. 7,72,590 during the previous year. The decrease in the gross receipts is just over Rs. 40,000 but the receipts include Rs. 79,317 on account of the price of previous year's converted sandalwood sold during the year under report. If this is taken into account the drop in gross revenue comes to Rs. 1,20,000. The decrease in gross revenue was due to the abolition of grazing fees and a decline in the timber market.

2. The number of forest offences fell from 2,699 to 2,377. The decrease is appreciable. It is partly due to a better understanding of the privilege rules by the villagers concerned.

3. There was an apparent fall in the total number of cattle admitted to grazing in Government forests as compared with the previous year. But this is due to the fact that no accurate record of animals that grazed in forests was maintained in some of the divisions after receipt of Government orders postponing and subsequently abolishing the collection of grazing fees.

4. The four forest Mahals of Dandeli, Kulgi, Virnoli and Kirwatti in the Kanara District continued to be managed by the Forest Department.

5. The Forest Advisory Committees in Dharwar and Kanara discussed 3 and 13 questions respectively. The proposals which were within the scope of the committees were disposed of to the satisfaction of the members concerned.

6. The working of the Alnavar Dandeli Forest Railway resulted in a surplus of Rs. 46,493 as against a deficit of Rs. 11,454 in the previous

year. This result is very encouraging. It is partly due to the railment of manganese ore by the mining concessionaires and partly to improvement in the bamboo market.

7. *Gum Clubs.*—Two new clubs were organised in the Belgaum District during the year. The scheme is on the whole making steady progress, but the results achieved cannot be said to be very satisfactory. The period of hunting pig has now been extended and the conditions of giving 24 hours' notice relaxed.

8. The efforts made by the Forest Officers in the matter of village uplift and in explaining to the people the nature and extent of privileges under the Code deserve commendation. This method is likely to be more effective in the end than prosecutions and will go a long way in popularising the Forest Department.

The special attention given to Cottage industries also deserves mention.

9. The Commissioner considers that for the reasons given by the Conservator in paragraph 152 of his report the early appointment of a silviculturist would be in the best interest of the Department.

10. The relations between the Forest Department and the Revenue Department continued to be cordial.

11. The administration of the Circle was carried on efficiently and tactfully throughout the year under report.

KOLABA DIVISION.

The total revenue from the working of the forests rose from Rs. 1,54,858 to Rs. 1,68,560 i.e., by Rs. 13,702, while the expenditure fell from Rs. 1,32,106 to Rs. 1,27,804 i.e., by Rs. 4,302. The net increase of Rs. 13,702 in the gross revenue is attributed to coupes fetching better prices during the year.

2. The total number of forest offences during the year was 1,712 as against 1,659 in the previous year. The rise is mainly due to an increase in the "Felling offences" from 1,145 to 1,219 which, however, is said to be due to the greater vigilance shown by the forest subordinates in detecting these offences. There was an appreciable decrease in the number of offences recorded under "Other offences".

3. The damage caused by erosion to the casuarina plantations of Akshi and Nagaon on the sea-coast during the year was less than in the previous year.

4. The newly constituted Forest Advisory Committee of Kolaba held only one meeting at Alibag on 17th December 1937. The proposal brought forward by Mr. R. N. Mandlik, M.L.A., that the kuran at Govan should be given to the villagers for free grazing was unanimously passed and the resolution was given effect to at the close of the year. No other subjects were discussed. Beyond this the Forest Department in the Kolaba Division has not been in a spectacular position to do

anything to further the Village Improvement work. But the propaganda work done by this department officers in this direction is commendable and the increase in the Agri-cum-forestry co-operation is to be noted.

5. The administration of the Division was on the whole satisfactory. The relations between the Forest Department and Revenue Department continued to be cordial.

D. B. SOTHERS,

Chief Conservator of Forests,

Province of Bombay.

Poona, 10th October 1938.

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FOREST ADMINISTRATION REPORT OF THE PROVINCE OF BOMBAY FOR THE YEAR 1940-41.

CHAPTER I.

CONSTITUTION OF STATE FORESTS.

(1) ALTERATION IN AREAS.

The changes caused by afforestations and disforestments during the year resulted in a net loss of 6 square miles in reserved forests in charge of the Forest Department and 19 square miles in the forests in charge of the Revenue Department. The total area of reserved forests both in charge of the Forest and Revenue Departments at the close of the year stood at 10,560 and 1,606 square miles respectively. The area of protected forests remained unchanged i.e., 160 square miles in charge of the Forest Department and 594 square miles in charge of the Revenue Department. The total loss of 16 square miles in the area of reserved forests is chiefly due to disforestments in favour of cultivation and it has been shared by all the Circles.

In the Belgaum Division, the policy of giving out land for cultivation on temporary leases is being followed wherever possible, but in the Gokak and Gujnal Ranges of the same division, where the hunger for land for cultivation is very great, the grazing position usually prevents such grants being made on a liberal scale. In the *ghat* portion of this division where *kumri* (shifting cultivation) is the usual form of cultivation, the villagers are encouraged to take up land for permanent cultivation, particularly rice lands, as these are generally deficient in those areas.

(2) FOREST SETTLEMENTS.

The total area of reserved forest pending settlement at the commencement of the year was 2 square miles and 475 acres to which were added 402 acres during the year. Out of this only 409 acres were settled. No cost was incurred on this account.

The work of acquiring first class Survey Numbers within the forest demarcation line in the Satara and Poona divisions was at a stand-still for want of funds.

The area within the forest demarcation line acquired during 1939-40 in the Poona division still awaits notification under the Indian Forest Act.

(3) DEMARCATION.

No new boundaries were demarcated during the year. 22,075 miles of existing boundaries (including those between British Territory and Goa, Mysore, Bhor and Baroda) were repaired at a cost of Rs. 3,747 the total length of boundaries at the close of the year being 37,106 miles.

(4) FOREST SURVEYS.

No survey work was done during the year.

The expenditure on the constitution of state forests during the year was Rs. 3,763 against Rs. 34,866 in the previous year.

CHAPTER II.

MANAGEMENT OF STATE FORESTS.

(1) REGULATION OF MANAGEMENT.

Preparation and Control of Working Plans.*(a) Preparation of Working Plans.*

The progress made in working plans during the year is summarised below.

1. The working plan for the Thana Woodlands (Gurcharans) was sanctioned by Government.

2. As stated in the last year's report, the prescriptions in parts I and II of the South Tapti Working Plan are being followed and rotational grazing experiments in the Dhulia and Sakri areas covered by part III of the plan were tried. Three different systems were drawn up but the villagers would not give them a trial. Recently, however, the Collector and local officers succeeded in getting the West Khandesh District Fodder and Grazing Committee to put forward proposals for the introduction of rotational grazing as a result of which Mr. Garland's rotational grazing scheme has been simplified and the villagers appear to be co-operating in giving it a trial. The present scheme, while retaining most of the advantages of Mr. Garland's original scheme, owing to its simplicity should become a model for similar schemes in other districts e.g., Poona and Satara. The pasture working circles of the working plans for the forests of these 2 districts, at present, receive no closure and badly need to be worked on lines which will provide at least periodic closure.

3. The preliminary report on the revision of the working plan for the Tulsi forests, in which it has been proposed to include the Vilhar lake forests, was approved by the Chief Conservator.

4. The Satpuda working plan with certain modifications in the marking rules is being given a further trial.

5. The question of issuing correction slips to the working plan for the Peint forests was dropped as it involved almost complete re-writing of the plan and it was therefore settled that the old system of working should continue until the plan is properly re-written.

6. Owing to the practical difficulties involved and to the paucity of staff it was decided that the question of re-allocation of coupes of the revised working plan for the Thana forests should be dropped *sine die*. The damage caused to millions of trees by the great cyclone of 16th October 1940, however, has again rendered the re-allocation of coupes an imperative necessity, and the working plan will have to be revised for the heavily affected areas.

7. The enumeration of sandalwood trees in the Belgaum division, already in progress last year was completed. Preliminary inspections were also commenced for the revision of the working plan for the teak pole, fuel and sandal forests of Nagargali and Khanapur ranges and also the working plan for the Gokak Range forests in the Belgaum division. It is proposed to incorporate all the forests in this division into one plan with a sandal working circle.

8. The enumeration of sandal trees in the Sirsi and Siddapur talukas in Kanara Eastern Division which was in progress last year was completed, and preliminary inspections were commenced to decide the basis of the plan. It was soon clear that merely to plan the exploitation of natural sandal crop would be quite inadequate for the urgent requirements of these two talukas and of the neighbouring taluka of Yellapur. Concessions for clearance of forests round habitations and cultivations had been given in 1939 on such a scale that when fully operative all these forests would be wiped out with attendant evils of erosion and laterite formation. Alternative proposals for all these hitherto unorganised forests in Kanara Eastern Division are therefore under consideration.

9. Preliminary inspections were also made for the revision of the working plans for the Nirsol and Arbail slopes in Kanara Western and Eastern Divisions respectively. The working of the plan for the Yellapur-Mundgod teak high forests, which has been the subject of some criticism, was also examined in detail by the Divisional Forest Officer, Working Plans, S. C.

10. No work was done in connection with the following working plans in the Northern Circle which need revision as stated in last year's report—

(a) The working plan for the Mandvi forests (Surat district)
and

(b) The working plan for the Bulsar and Chikhali forests including the Baragaon Dangs.

(b) Control of Working Plans.

The prescriptions of the working plans in force were as far as possible adhered to except in the case of one working plan in Kanara Northern Division which is under revision. Some coupes remained unsold due, as usual, to inaccessibility or lack of demand, poor quality of tree-growth or long lead.

The prescriptions of the plan in respect of the casuarina working circle of the Thana working plan were held in abeyance. The entire casuarina plantations have been so severely damaged by the cyclone that a fresh set of proposals for replanting the existing plantations will have to be made. The matter is receiving attention.

As a result of the modified orders issued by Government reducing the number of coupes to be disforested in the Sindhavai forests in Mandvi Range in the Surat District from 21 to 4, coupe No. 30 of Blocks XVI, XVIII and XIX were sold during the year to bring the working of the coupes up to date.

Some coupes in Kanara Northern Division were withheld from sale as they formed part of the forests open to exercise of privileges by the public in accordance with Government orders.

In the Kolaba division the casuarina coupe of the year was again not worked as it was heavily eroded. Similarly the Matheran coupe was not worked as there was a sufficient stock of fuel in the Matheran Depot.

(2) COMMUNICATIONS AND BUILDINGS.*(a) Roads and Bridges.*

A number of roads and cart tracks have been constructed and maintained by the Forest Department. These roads not only facilitate extraction of timber and other forest produce from the otherwise inaccessible parts but also help the agriculturists in the remote villages to market their produce and the District and other touring officers to visit the outlying villages. With these objects in view several new roads have been projected and approved administratively by competent authorities. It is proposed that two of these viz. the Ozar-Saiwan and the Tembha-Parali section of the Khardi-Parali road should be financed from the Petrol Tax Fund. It is necessary to proceed with these projects as early as possible as they will also play an important part in Rural Development work. During the year under report a sum of Rs. 12,913 was spent on new works as against Rs. 4,690 spent in the previous year.

1084 miles of roads and 121 miles of cart tracks and bridle paths were repaired at a cost of Rs. 47,816, while Rs. 40,390 were paid to the M. & S. M. Railway for maintenance of the Ahawar-Dandeli Forest Railway. The corresponding figures during 1939-40 were respectively Rs. 49,493 and Rs. 25,197.

(b) *Buildings.*

The total expenditure on construction of new works during the year amounted to Rs. 15,384 as against Rs. 17,899 in the previous year and on repairs to existing buildings to Rs. 19,217 as against Rs. 16,460 in the previous year. It has been suggested that the "brick-nogging" construction referred to in the last year's report be adopted for all Forest departmental buildings in the Northern Circle with a view to expediting the provision of buildings in places where they are urgently required as with this type of cheap construction a larger number of buildings can be constructed with a given amount. A rest hut at Ganjee in the North Thana division was constructed in this style at a cost of Rs. 1,290 only and it is reported that it serves almost as well as a more expensive structure in brick or stone and lime which would have cost at least Rs. 5,000.

In accordance with the orders of Government the Nasik Timber Depot building with the land was handed over to the Collector for sale. The building has been sold for Rs. 2,000 but the land has not yet been disposed of.

(c) *Other works.*

The works under this head usually consist of wells, fencing of compounds etc. The total expenditure on new works and repairs was Rs. 2,152 and Rs. 3,132 respectively. The corresponding figures for the previous year were respectively Rs. 2,087 and 3,556.

(3) PROTECTION OF FORESTS.

(a) *General Protection.*

The following table compares the number of forest offences during the year with those of the previous year and the average of the past three years :—

Class of offence.	1940-41.				Total for 1939-40.	Average for 1937-38 to 1939-40.
	Northern Circle.	Central Circle.	Southern Circle.	Total.		
I. Injury to Forest by fire.	651	578	176	1,405	1,730	1,810
II. Unauthorized felling or removal of Forest produce ..	6,635	5,712	1,490	13,837	15,152	13,233
III. Unauthorized grazing..	3,545	2,309	398	6,252	5,911	5,333
IV. Other offences ..	1,517	1,095	559	3,171	3,321	2,853
Total for 1940-41 ..	12,348	9,694	2,623	24,665	..	..
Total for 1939-40 ..	13,254	10,326	2,534	..	26,114	..
Average for 1937-38 to 1939-40 ..	11,128	9,695	2,406	..	..	23,229

The total number of offences detected during the year records a decrease as compared with the previous year though the number of offences under "unauthorized grazing" shows an increase. The various causes for increase or decrease under each head are discussed below.

(i) INJURY BY FIRE AND PROTECTION FROM FIRE.

As compared with the previous year there has been a drop of 325 cases (1,730-1,405) but the area burnt has increased by 16 square miles (469—453). The decrease in the number of offences occurs in all Circles particularly in the Northern Circle which records a decrease of 223 cases. The precautionary measures taken to prevent the occurrence of fires, the vigilant and successful attempts made by subordinates to bring fires under control coupled with the propagaunda work carried out by officers and subordinates of this Department in the course of village uplift work by educating villagers on the importance of fire protection and the grant of small gifts such as caps, waistcoat, pieces of cloth, slates and pencils to children and turbans and cash to adults for assistance in fire protection mainly account for the decrease in the number of fires. The increase in the area burnt occurs mainly in the Khandesh Divisions of the Central Circle where the villagers showed a reluctance to help forest subordinates in putting out fires.

About 420 acres of plantations were burnt in Kanara E. D. against 528 acres in the previous year. The area of the Nirsol slopes also suffered much. Some accidental fires broke out in some of the plantations in Kanara Northern Division but the damage was negligible.

(ii) UNAUTHORIZED FELLING AND REMOVAL OF FOREST PRODUCE.

The offences under this head records a decrease of 1,315 cases (15,152—13,837) during the year as compared with the previous one, all the circles contributing thereto.

According to the recent orders of Government headloads of firewood brought into the Municipal districts of Godhra, Dohad and the Freelandganj colony in the Panch Mahals Division are to be covered by transit passes. The demand for these passes is however waived in respect of headloads brought by privilege holders to the authorized depots in these towns run by departmental agency. Two depots—one at Godhra and the other at Dohad were opened during the year under report and the privilege holders took full advantage of the scheme as they received a fair price for their headloads from Government. This tended to keep down the number of offences as headloads brought without passes could only be disposed of at the authorized depots where freshly cut material was liable to be attached. On account of the widespread damage caused by the cyclone of 16th October 1940, the people in the Thana district

have had ample resources to meet their demands from outside Government forests. Boats were again engaged this year for patrolling the Bassein and Vaitarna creeks and they produced a very salutary effect in preventing the illicit hacking and looting of the forests along the creeks. The recent Government orders prohibiting the bringing of headloads of fuel into the town of Jalgaon in the East Khandesh Division without transit passes reduced the number of offences in that part. All these measures coupled with the successful attempts to check illicit traffic in fuel headloads in other parts were responsible for the drop in the number of offences under this head.

(iii) UNAUTHORIZED GRAZING AND PROTECTION FROM CATTLE.

There was on the whole an increase of 341 cases (6,252—5,911) under this head. No special reason can be assigned for the increase but it may possibly be ascribed to better patrolling of the forests by subordinates. Heavy trespass in closed coupes can be minimised only if the rule requiring a responsible herdsman to accompany the herds of cattle is strictly enforced as prescribed in the grazing rules.

The areas open and closed to grazing were as follows:—

	Square miles.	Percentage.
Closed to all animals for the whole year ..	999	7·7
Closed to all animals for part of the year ..	57	0·4
Open to all animals for whole year	4,665	38·1
Open to all animals except browsers for the whole year	6,931	53·7
Open to all animals except browsers for part of the year	266	2·1
Total ..	12,918*	100·

The area open to grazing for horned cattle throughout the year was 89·8 per cent. The reduction in the period of closure from 10 to 5 years in the three Thana and Panch Mahals Division was continued.

In the Dharwar district the pure sandalwood reserves, which were hitherto under closure have now been opened as the nature of the cultural operations carried out does not necessitate closure to grazing.

* Excludes 2 square miles submerged in the Bhandardara lake.

The total number of cattle admitted to graze was 1,800,136 against 1,833,115 in the previous year. The decrease is, as stated in the last years report, more apparent than real. In some cases the village officers whose duty it is to issue free permits did not do so, while in other cases villagers did not observe the rule of taking permits for their cattle. Free permits are now issued by village officers but correct figures of the cattle in respect of which such passes are issued are not always reported by them.

The total grazing fee collected during the year amounted to Rs. 11,072 as against Rs. 11,478 collected last year.

(iv) OTHER OFFENCES.

There was a drop of 150 cases (3,321—3,171) as compared with the previous year. The offences under this head consist of breaches of transit rules, encroachments on forest lands, illicit shikar, etc. and no reason can be ascribed for the variations. The land hunger in Gokak and Gujnal ranges of the Belgaum Division is reported to be responsible for many encroachments in forest. Berads in particular are prone to this type of offence and some of them are regular and persistent offenders.

Out of 758 cases (314 new and 444 old) taken to court, 518 were decided in favour of the department and 4 against, the percentage of successful cases being 99·2. Six cases were withdrawn as the whereabouts of the offenders could not be traced.

During the year 19,976 cases were disposed of. Of these 13,486 were compounded, the amount of compensation recovered therefor being Rs. 72,116 or Rs. 3·7 per case against Rs. 3·2 in the previous year. In 480 cases the offenders were let off with a warning and 3,255 cases remained undetected.

(b) Protection against injuries from natural causes.

(1) VEGETABLE PEST.

(i) *Creepers and Climbers*.—Creepers and climbers were cut as usual by subordinates, contractors' agency being used wherever possible.

(ii) *Loranthus*.—This pest was mostly confined to the Southern part of Kanara Western Division and was kept under effective check by removing the affected stems or branches.

(iii) *Prickly pear*.—This pest is reported to be appearing in Dharwar and Bagalkot ranges of the Dharwar Bijapur Division and all over the open forests of the Gokak range in the Belgaum Division. There is no appearance of the cochineal insect in the affected areas of the Dharwar Bijapur division, while in the Belgaum division it is expected that the growth of prickly pear and its destruction by the cochineal insect will in future attain a balance, the danger of prickly pear spreading to its previous proportion being minimised.

(2) ANIMAL PEST.

Rats, hares, porcupine, monkeys, *cheetal* and *sambhar* were responsible for a certain amount of damage both in the Northern and Southern Circles. In addition to these elephants and bison caused some damage in the Southern Circle. Damage from porcupine was particularly bad in the Sunksal plantations of Western Division Kanara. In the 10 acre plot under special "phowra scrape" weeding in Sunksal R. A. 15 the damage was particularly severe. The ravages of this pest were minimised to some extent by night patrol through guards and also by offering rewards for the destruction of porcupine.

(3) INSECT PEST.

Teak defoliators are reported to have done some damage in young teak plantations of the Southern Circle other than those in Kanara Eastern Division and Dharwar-Bijapur. The virulent attack of teak defoliators in the West Thana division was widespread and affected even isolated trees in forests in which there is a low percentage of teak. In some plantations it was found that the leading shoots had been killed, resulting in forking and excessive development of side branches. The damage in 2 to 5 year old plantations was extremely serious in almost all the ranges in the North Thana division. The entomological branch of the Dehra Dun Research Institute undertook investigations with a view to suggesting remedial measures, but they have suspended their activities for 2 years.

Damage by the Ravlook cricket (*Brachytrypes achatinus*) was again considerable in the casuarina plantations of Karwar and Honawar ranges of Western division Kanara but the insect is reported to have disappeared as soon as heavy rains fell.

Locusts were found destroying one month old teak plants in the Ramanguli and Honawar ranges.

(4) FROST AND EROSION.

No damage was caused by frost in any of the Circles but coupes No.18 and 19 of the casuarina working circle of the Kolaba division were heavily eroded.

The general question of erosion is receiving attention and the following measures have been taken in the Central Circle :—

(1) Steep hill sides in the coupes of Poona, Satara and Kolaba divisions are being excluded from clear felling.

(2) Areas from evergreen forests in the Satara sub-division are not now given out on the agri-silvicultural system ; similarly proposals for disforestmments of areas for shifting cultivation are now being strongly opposed.

(3) Full remission of assessment is being granted in forest settlements in cases where the plot holders carry out approved bunding schemes.

(4) Contour trenching experiments in arid areas of West Khandesh, Satara and Poona have been extended.

(5) All disforestation proposals especially in the Ahmednagar district are being carefully scrutinized and opposed where necessary. In this connection the Commissioner, Central Division has ordered that bunding schemes should be introduced and carried out where necessary before such areas are proposed for disforestation.

(6) Contour bunding and nalla-damming are being carried out in the felled coupes of the pasture felling series of Mr. Garland's South Tapti Working Plan for West Khandesh.

(5) CYCLONE.

A cyclone extremely severe in intensity broke out on 16th October 1940 and caused extensive damage to the forests of the North, East and West Thana divisions and the Surat sub-division: Generally speaking forests in plain country along the coast suffered more heavily than higher up on the hill slopes. Teak (*Tectona grandis*) trees were mostly uprooted while *ain* (*Terminalia tomentosa*) and *hed* (*Adina cordifolia*) trees snapped at various heights above ground level. In a few places the damage extends to as much as 50 per cent. of the crop. The casuarina plantations in the North Thana division also suffered very heavily.

How severe the damage to the forest was in the heavily damaged area is illustrated by the abstract given below in a tabular form of a sample plot taken in coupe No. 45 Felling Series V of the North Thana division

Range-Sanjan.

Aspect—Eastern.

Forest—Kainad.

Area 2 acres.

Particulars.	Sound.		Damaged by cyclone.	
	No.	Percent- age.	No.	Percent- age.
Teak trees above 12" in girth ..	13	19.4	54	80.6
Ain trees above 12" in girth ..	<i>Nil.</i>	<i>Nil.</i>	7	100.0
Hedu trees above 12" in girth ..	4	26.7	11	73.3
Khair trees above 12" in girth ..	<i>Nil.</i>	<i>Nil.</i>	<i>Nil.</i>	<i>Nil.</i>
Trees of all species above 12" in girth ..	100	29.8	236	70.2



Cyclone damage in casuarina plantation at Chikhala-Gholwad, North Thana Division, Northern Circle. (Approximately 20 years' old plantation).

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The damage has been severe in all girth classes but is markedly severe in girth classes above 36" in the case of teak, and in the case of *injaili* species the damage is excessive amongst trees 18" to 24" in girth which must be due to the crashing of big trees, and is uniformly high in all other girth classes.

It is estimated that in the reserved forest alone trees unfit to be retained any longer will run into 3 million in an area of 345 square miles. The working plan in the affected parts has had to be suspended pending exploitation of the cyclone damaged trees.

CHAPTER III.

SILVICULTURE.

1. SYSTEM OF MANAGEMENT.

The area in charge of the Forest Department aggregates 10,720 square miles of which 7,560 square miles or 70.5 per cent. of the total are organised under various silvicultural systems as detailed below :—

Silvicultural system.	Area.	Percentage.
	Square Miles.	
1. Clear felling	2,688	25.1
2. Improvement	616	5.7
3. Coppice with standards	1,053	9.8
4. Improvement clear felling	412	3.8
5. Selection	265	2.5
6. Selection cum-improvement	616	5.7
7. Uniform	331	3.1
9. Simple coppice	434	4.1
9. Others	1,145	10.7
Total under silvicultural system	7,560	70.5
Protection, grazing and unallotted	3,160	29.5
Grand Total	10,720	100.00

2. GENERAL PROGRESS OF REGENERATION AND AFFORESTATION.

(a) *Mainly natural.*

The total area under natural regeneration both concentrated and not concentrated was 67,990 acres as against 72,783 acres in the previous year.

(i) *Concentrated.*

Planting of teak stumps and sowing of teak (*Tectona grandis*), sandal (*Santalum album*) and the principal *injaili* (Junglewood) species such as *babul* (*Acacia arabica*), *tivas* (*Ougenia dalbergioides*), *ain* (*Terminalia tomentosa*), *bibla* (*Pterocarpus marsupium*), *shivan* (*Gmelina arborea*), *khair* (*Acacia catechu*), *kashid* (*Cassia siamea*), *nim* (*Azadirachta indica*), *anjan* (*Hardwickia binata*), cashew nut (*Anacardium occidentale*), etc. carried out throughout the Province on *rab* (well burnt), patches, and kiln sites, and by groups and ploughed-lines in exploited coupes. The results of the operations were on the whole satisfactory. Natural regeneration from coppice and self grown seedling, was relied on in the remainder of the exploited coupes. Coppice growth consisting mainly of *matti* (*Terminalia tomentosa*), *kindal* (*Terminalia paniculata*), *jamba* (*Xylia xylocarpa*), *sagadi* (*Schleichera trijuga*) is reported to be good on the whole in Kanara Western division.

(ii) *Not concentrated.*

The results of sowing up open areas with a variety of species according to soil factors of the locality selected were satisfactory in the Central and Southern Circles while in the Northern Circle they were for the most part unsuccessful due to various reasons such as scarcity of labour, cattle trespass, etc.

(b) *Mainly artificial.*

For the reasons given in the last year's report, viz., want of seedlings, coupe No. 2 of Casuarina Felling Series I in the North Thana division clear felled in 1938-39 could not be planted in 1939-40. This coupe No. 2 and coupe No. 3 of the same series clear felled in 1939-40 comprising 10 acres in all were planted with casuarina (*Casuarina equisetifolia*) seedlings during the year under report. The cyclone of 16th October 1940 swept over this area along with others and though adjoining mature casuarina trees were mostly uprooted and the rest had their boles snapped off at various height, yet the tender young seedlings were saved, only their supporting *bundhi* stakes being broken. Prompt measures were taken to give the seedlings new supports.

Owing to the heavy damage in the casuarina forests by the cyclone, it became necessary to prepare platform nursery beds on a large scale and two such additional nurseries were therefore sown with seed by the middle of the December 1940 and germination was satisfactory.



Teak plantation. 10 months old in Bouldery soil, coupe 23 of F. S. XXVI. Nikne Round, Kasa Range, North Thana Division Northern Circle. (Average height 5 feet).

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Coupe Nos. 6 to 12 in Casuarina Felling Series II of the same division referred to in the last year's report were to be planted first. Accordingly an area of 5 acres in one of these was fenced and casuarina seedlings were transplanted 12' x 12' with excellent results.

In the Edlabad range of the East Khandesh Division 11 acres and 15 gunthas of exploited *babul* coupes were sown with *babul* (*Acacia arabica*) seeds in ploughed furrows with fair results.

In the Poona division 551 acres of the Babul Working Circle were regenerated of which 215 acres and 16 gunthas were raised along with field crops.

In the Kolaba division casuarina coupes Nos. 13, 14, 16 and 17 part were planted with casuarina seedlings.

The area regenerated with teak (*Tectona grandis*) on an intensive scale in Kanara, N. D., E. D., and W. D. are given in the following table:—

Working Plan.	Area planted.	Spacing.	Cost.
	A. g.		Rs.
1. Bhagwati High Forest Working Plan ..	78 00	6' X 6'	3,624
2. Supa High Forest Working Plan ..	165 00	9' X 9'	7,509
3. Gund Working Plan	57 00	9' X 9'	1,895
4. Working Plan for the Nagzari Valley, Kalinadi-Kaneri Slopes	9 00	9' X 9'	560
5. Revised Working Plan for the Nirsol stopes	44 00	9' X 9'	1,026
6. Revised Working Plan for the Yellapur- Mundgod Teak High Forests ..	319 00	6' X 6'	8,923
7. Ramanguli-Ankola High Forest Working Plan	140 00	9' X 9'	605
8. Soppinhusalli High Forest Working Plan.	30 00	9' X 9'	200
9. Kalinadi Slopes Working Plan ..	3 00	9' X 9'	16
	845 00	....	21,358

Eight months old casuarina (*Casuarina equisetifolia*) plants raised in wet nurseries were transplanted with an espacement of 12' x 12' in about 64 acres of the Revised Working Plan for the casuarina plantations in Kanara Western Division.

An area of about 20 acres in the Regeneration area No. A-15 Nagargali Range of Belgaum Division was planted up with 23,090 teak stumps. This plantation is considered to be poor due to early planting coupled with very long and un-anticipated break in the rains. Attempts are being made to improve the condition of the plantation.

An area of 195 acres was artificially regenerated in Dharwar-Bijapur Division partly with teak stumps and partly with sandalwood and other suitable junglewood seed.

Agri-silvicultural system.

The system of granting land on agri-silviculture terms in the East Nasik Division continued during the year. An area of 650 acres and 12 gunthas was brought under the system, the total area at the close of the year being 4,990 acres with 838 plottolders as against 4,339 acres and 28 gunthas with 754 plottolders in the preceding year.

Forty-seven plots covering an area of 367 acres in the West Khandesh Sub-division and 47 acres lantana (*Lantana indica*) covered over out of felled coupes in the Main working circle in the Satara Sub-division were given out on the Agri-silvicultural terms.

(c) Afforestation.

The experiments on the lines of the Italian Gradoni system started at the 6 centres mentioned in the last report were further extended. Additional areas at these centres were taken in hand and the work done and the costs incurred have been summarised in the following table :—

Serial No.	Division.	Locality where the work is done.	Contour trenching		Handing work done.		Area taken up.		Cost.		Cost per 100 R. ft.	
			1938-39 (Running feet)	1940-41	1939-40.	1940-41. (Running feet).	1939-40.	1940-41.	1939-40.	1940-41.	Rs.	Rs.
1	East Nasik	Moholari ..	4,575	6,110	1,466	1,130	10' 0	10' 0	391	353	6' 6	5' 8
		Bhawda ..	11,322	20,706	1,872	1,291	20' 0	20' 0	559	374	4' 9	2' 8
2	West Khandesh	Nasoon Hari ..	33,279	19,595	..	..	49' 4	20' 0	789	323	2' 4	1' 6
3	Poona	Bhamburda ..	6,413	..	..	..	7' 6	..	234	..	3' 6	..
		Khed ..	12,874	26,697	..	..	28' 3	36' 5	902	775	7' 0	2' 9
4	Satara	Chumangan ..	13,343	46,227	..	..	18' 0	40' 0	575	890	4' 3	1' 7
		Total ..	81,806	119,335	3,338	2,441	132' 7	126' 5	3,350	2,827	4' 1	2' 4
							259' 2		61,183			

The results in the Bhawda experimental area were satisfactory as 5,713 plants survived at the end of the year. As a result of this experiment the growth of the crop in the fields below showed a marked improvement. Other forest growth such as *anjan* (*Hardwickia binata*) and teak (*Tectona grandis*) plants on the *rabs* and fodder grasses in the area also showed improved growth. *Anjan* (*Hardwickia binata*) plants shot up to a height of 6' to 8' from 4' at the end of the last year. The fodder grass in the area was again in keen demand and the villagers were allowed to cut and remove it.

In the Mohodari area nearly 70 per cent. of the plants survived the first hot season. Erosion was satisfactorily checked over the hillside under experiment, grass remained green to a later date in summer, and the crop in the fields below showed a remarkable improvement. The experiment has therefore demonstrated that the method provides an excellent means of arresting erosion and covering the hillsides with trees in a short time and at a reasonable cost.

In the Central Circle a large variety of species have been tried out and the species which have grown well and are likely to be useful in these dry areas are :—

<i>Latin names.</i>	<i>Marathi names.</i>
(1) <i>Azadirachta indica</i> .. ..	.. <i>nim</i>
(2) <i>Acacia catechu</i> .. ..	.. <i>khair</i> .
(3) <i>Cassia siamea</i> .. ..	.. <i>kashid</i> .
(4) <i>Gmelina arborea</i> .. ..	.. <i>shivan</i> .
(5) <i>Hardwickia binata</i> .. ..	.. <i>anjan</i> .
(6) <i>Tamarindus indica</i> .. ..	.. <i>chinch</i> .

Many other species are also promising. Grass seed has also been sown in places with a certain degree of success.

Trenching has undoubtedly produced beneficial results both in regard to increasing the moisture content of the soil and preventing erosion. There is also evidence that the fields immediately below the trenched areas are benefitting. The gradoni system is likely to prove even more beneficial for the purpose of raising tree growth and obtaining a good fodder supply on the bare hills in the "famine tract" e.g., the eastern parts of the Deccan.

The Khed area was visited by Mr. H. F. Knight, C.S.I., C.I.E., I.C.S., Adviser to His Excellency the Governor of Bombay, who had recorded the following remarks :—

"The following points struck me :—

(1) That the holding up of water in the hills should improve the sub-soil water supply to cultivated land lower down.

(2) That if the cultivated land lower down is to get the benefit of increased subsoil water and of the decrease of run off surface water and of consequent erosion, then to get this benefit fully, any privately owned land lying between the forest and the cultivated area must be treated in the same way.

(3) A necessary ingredient of such work is closure of forest to grazing."

The Collector of Nasik visited the experimental plantations in Bhawda area and has left the following remark on record :—

"Very successful and interesting experiment producing beneficial results over the wide area."

Experiments on the same lines were started in the Panch Mahals and East Thana divisions of the Northern Circle. The lengths of trenching and bunding done in several coupes in the former division amounted to 10,580 and 4,050 running feet respectively, while in the latter an area of 10 acres in coupe 5 of Block I Ubhada in Igatpuri was selected. During the year, 6,600 running feet were contour trenched and mango (*Mangifera indica*) and *kaju* (*Anacardium occidentale*) were planted in the contour trenches. The height of the surviving seedlings was about 5" to 7" at the end of the year under report.

In the Southern Circle an area of 20 acres in Hirehodlur—Bagalkot Range—was taken up for afforestation by dibbling in blanks seeds of *nim* (*Azadirachta indica*), *tugli* (*Albizia amara*), *anjän* (*Hardwickia binata*), etc., species. The cost incurred was Rs. 71. The results were not encouraging due to an unfavourable monsoon.

(d) *Tree planting in forest areas.*

In the Northern Circle 31½ gunthas in coupe 5 of Block VII of Kharshet along the Daman river were given to Mr. Dharma Ganu Bhagre of Kharshet for growing fruit trees such as jack fruit (*Artocarpus integrifolia*), mango (*Mangifera indica*), *popai* (*Carica papaya*) and plantain trees (*Ficus tjakela*).

In the Southern Circle no fresh forest areas were applied for for planting fruit trees. Out of the 11 sanads (agreements) executed last year, two were cancelled during the year—one for breach of terms of the agreement and the other due to the demise of the lessee.

(e) *Help rendered by the Forest Department to Associations, Agriculturists and others in tree planting.*

In the North Thana division 75 *kaju* (*Anacardium occidentale*) nurseries were prepared out of Rural Development funds for supply of *kaju* plants to villagers. 200 *Casuarina* (*Casuarina equisetifolia*) seedlings were supplied from the nursery in the Sanjun Range to the Manager, Surat Electricity Co. for Rs. 26-11-0 including the cost of transport.

Efforts to encourage villagers to take up tree growing in their *malki* (owned by them) lands were continued and seedlings of various species were raised by forest subordinates in all the divisions of the Southern Circle. The number of seedlings of each species available for free supply to the villagers were intimated by Range Forest Officers of the Kanara Eastern Division to the Mamlatdars and Mahalkaris concerned so as to enable the latter to notify the fact to the villagers through the village officers and the Rural Development Board. Arrangements to establish nurseries of *kaju*, casuarina eucalyptus, etc., are made at headquarters of each range in the coastal talukas of Kanara. *Kaju* plantations for the purpose of demonstration are also raised in Kanara Western Division. It appears that the villagers are not keen on availing themselves of the concessions.

3. TENDING OF GROWING STOCK.

The usual cultural operations such as mulching, weeding, cleaning and cutting climbers, etc., were carried out by Forest subordinates wherever possible and by paid labour in some places. The thinnings were either carried out by contractors who purchased the trees standing or done departmentally. The cost of departmental works was Rs. 5,968 and the revenue realised was Rs. 2,21,593. In a few cases where the villagers did the work, they were at their own request allowed to take the resultant material in return for their labour.

CHAPTER IV.

EXPLOITATION.

1. SYSTEM OF MANAGEMENT.

The various systems of management and the area organised under each are given in Chapter III under the heading "Systems of Managements".

(i) *Major Forest Produce.*

Timber, Fuel and Sandalwood.

Timber and fuel were extracted through the agency of purchasers by the sale of standing coupes in the Northern and Central Circles. Fuel for the Government depots at Mahabaleshwar and Panchgani in the Satara Sub-Division was extracted departmentally. The extraction of *ballies* (poles) for supply to the Defence Department was done departmentally in both Circles. In the Southern Circle, timber from valuable High Forest areas was brought to depots for sale either departmentally or through contractors, while standing coupes were sold in less valuable High Forest and in the pole and fuel areas. Sandalwood was, as hitherto, departmentally extracted, brought to depots and converted for sale. Most of the silvicultural operations such as early thinnings were carried out departmentally.

(ii) *Minor Forest Produce.*

Minor forest produce was, as usual, either farmed out or sold on permits.

Hirda (*Terminalia chebula*) fruit was collected from the Rajur range forests on the "quota" or share system as hitherto. In all 53 *khandis*, 11 maunds and 3½ *payalis* were collected and the whole quantity was sold by tender at Re. 1-9-1 per bag of 20 *payalis*, the revenue realised therefrom being Rs. 1,007-11-0 against Rs. 643 in the previous year.

The minor forest produce collected departmentally during the year 1939-40 in the Kanara Western Division in pursuance of Mr. Kallapur's scheme referred to in the last year's report did not attract any bidder when put up for sale. All attempts made to sell the produce for a reasonable amount by instituting enquiries with the dealers in Bombay, Poona, etc., were also unsuccessful. In order to avoid deterioration of the produce and also the monthly payment of rent of the godown hired at Kumta for storing it, the produce had to be sold under the orders of Government for what it would fetch. The total cost incurred by Government (including rent for the godown and other incidental charges) on this transaction was Rs. 4,978 against Rs. 1,894 realised by sale of the produce and the gunny bags containing it, the net result being a loss of Rs. 3,084 to Government. This figure, however, does not include Rs. 300 the usual annual revenue realised from the minor forest produce of the division. Thus the total loss to Government amounted to Rs. 3,384. Mr. Kallapur's scheme which professed to bring in a net annual profit of Rs. 3,000 to Government has thus in practical test, proved a complete failure from the financial point of view. Pending final decision on the scheme, minor forest produce in Western Division, Kanara, was, according to Government orders farmed out to purchasers during the year.

The concession of free distribution of *tali* (*Corypha umbraculifera*) palms to deserving poor people in certain coastal talukas of Kanara continued. Cane is also allowed free for domestic use and for cottage industries.

Grass and grazing fetched Rs. 1,49,348 against Rs. 1,62,322 last year. The decrease is mainly due to poor offers for grass kurans in the East Khandesh division and also to the exclusion of 3,090 acres from the kuran areas in the Poona division.

2. AGENCY OF EXPLOITATION.

(i) *Departmental Agency.*

The following is a comparative statement of major and minor forest produce extracted departmentally during the two years 1940-41 and 1939-40 :

Circle.	Year.	Major forest produce.			Sandalwood value.	Minor forest produce.			Total value.
		Timber in cubic feet thousands.	Fuel in cubic feet thousands.	Total Cubic feet in thousands.		Bamboos value.	Grass and grazing value.	Other produce value.	
					Rs.	Rs.	Rs.	Rs.	Rs.
Northern	1940-41	331	405	736	125	23	....	1,036	1,059
	1939-40	51	403	454	75	23	....	1,292	1,315
Central	1940-41	119	487	606	257	....	....	7	7
	1939-40	93	533	626	327	....	....	....	....
Southern	1940-41	879	1	880	1,18,296*	2,701	....	1,821	4,522
	1939-40	792	2	794	82,619*	20	....	2,000	2,020
Total	1940-41	1,329	893	2,222	1,18,678	2,724	....	2,864	5,588
	1939-40	936	938	1,874	83,021	43	....	3,292	3,335
Difference	..	393	-45	348	35,657	2,681	....	428	2,253
Percentage of departmental to total output.		17.7	1.9	4.1	100	....	....	....	....

The increase under timber is due to extensive departmental operations undertaken for supply of *ballies* (poles) from the Northern and Central Circles and of logs and sawn material from the Southern Circle for war purposes and also for supply of a larger quantity of sleeper pieces require by the Mills at Dandeli to meet the increased demand for M. G. teak sleepers of the M. & S. M. Railway during next year.

The decrease under fuel is chiefly due to poorer outturn from thinnings in the Central and Southern Circles.

The value of sandalwood increased as a result of better quality of material extracted.

The supply of *bamboos* (*Dendrocalamus strictus* and *Bambusa arundinacea*) to the Defence Department is responsible for the increase under "bamboos". The farming out to purchasers, instead of departmental exploitation of certain minor forest produce in Western Division Kanara, accounts for the decrease under "other produce".

(a) Timber depots.

The following table compares average prices obtained for timber during 1940-41 and 1939-40 in the Dandeli depot which is the principal timber depot in this Province. The prices obtained during 1940-41 are in all cases higher than those of the previous year, the rise being due to the situation created by the War.

Kind of timber.	Average rate per khandi of 12·50 cubic feet.					
	1940-41.			1939-40.		
	Rs.	a.	p.	Rs.	a.	p.
Teak (<i>Tectona grandis</i>)	31	12	3	27	2	2
Matti (<i>Terminalia tomentosa</i>)	12	12	5	11	12	4
Nana (<i>Lagerstroemia microcarpa</i>)	18	6	6	12	3	1
Honne (<i>Pterocarpus marsupium</i>)	22	9	9	17	15	1
Karimuttal (<i>Ougeinia dalbergioides</i>)	17	7	1	15	1	7
Sissum (<i>Dalbergia latifolia</i>)	17	14	9	12	4	3
Heddi (<i>Adina cordifolia</i>)	12	12	11	10	7	5
Other jungle woods	12	0	5	9	10	5
Teak battens	24	15	10	20	0	1
Teak scantlings	28	10	7	26	5	4
Teak planks	48	9	8	43	1	9

Teak (*Tectona grandis*) logs at Kodibag depot in Kanara Western Division were not sold as ordered by Government.

(b) Fuel depots.

In the fuel depots opened at Dohad and Godhra referred to in Chapter II under the caption "unauthorised Felling and Removal of Forest Produce" 182,275 lbs. of fuel brought in by concessionists in head loads were purchased at a cost of Rs. 569-9-9. Of this 31,816 lbs. were sold for Rs. 124-4-6. The remaining quantity owing to slack retail sale will be sold by public auction. In the fuel depot at Matheran 6,671 maunds of fuel were sold for Rs. 4,031, the expenditure including the cost of establishment being Rs. 2,585. The surplus of Rs. 1,446 was paid to the Matheran Municipality.

The fuel depots at Mahableshwar and Panchgani in the Central Circle, were run through the agency of contracts as also 9 depots in North Thana (Northern Circle) and 6 depots in Kanara Western Division (Southern Circle).

(ii) Purchasers.

The following table compares the outturn of major and minor forest produce removed by consumers and purchasers during the years 1940-41 and 1939-40 :—

Circle.	Year.	Major forest produce.				Minor forest produce.			
		Timber.		Fuel.		Bamboos value.	Grass and grazing value.	Other produce value.	Total value.
		Cubic feet in thousands.	Value.	Cubic feet in thousands.	Value.				
			Rs.		Rs.	Rs.	Rs.	Rs.	Rs.
Northern	1940-41 ..	3,047	16,00,122	10,092	25,125	10,942	56,600	33,020	1,00,562
	1939-40 ..	2,915	13,04,282	7,815	18,887	15,885	53,814	36,677	1,06,376
Central	1940-41 ..	1,095	3,29,738	4,844	55,117	12,658	92,054	35,792	1,40,504
	1939-40 ..	806	3,28,979	4,754	49,779	9,849	1,07,629	35,958	1,53,436
Southern	1940-41 ..	1,798	6,32,524	5,175	2,12,653	73,452	694	30,040	1,04,186
	1939-40 ..	1,485	5,13,992	6,163	1,92,869	64,023	363	26,202	90,588
Total	1940-41 ..	5,940	25,62,384	20,111	2,92,895	97,052	1,49,348	98,852	3,45,252
	1939-40 ..	5,206	21,47,263	18,732	2,61,535	89,757	1,61,806	98,837	3,50,400

There has been an increase both in the volume and value of timber and fuel extracted during the year and this is due to better quality of some coupes and compartments sold during the year, the sale of wind fallen trees in the three Thana Divisions and the Surat Sub-Division and the better prices realised for coupes as a result of the upward trend of the timber market.

The increase under *bamboos* is due to better demand for them from the public, while the decrease under grass and grazing is, as stated in the earlier part of this Chapter, due to poor offers for grass *kurans* in East Khandesh and to the exclusion of 3,090 acres from kuran areas in the Poona Division.

(iii) *Rights, Privileges, and Free grants.*

The following is a comparative statement of the quantity and value of the forest produce removed by right and privilege holders and free grantees during the years 1940-41 and 1939-40.

Concessionists

Major forest produce.

Minor forest produce.

Circle.	Timbor.			Fuel.		Bamboos value.	Grass and grazing value.	Other produce value.	Total value.
	Free grantees.	Quantity in C. ft. in thousands.	Value	Quantity C. ft. in thousands.	Value.				
			Rs.		Rs.				
Northern	C	....	....	11,022	2,21,183	75,501	11,16,472	1,02,199	12,94,262
	F	84	52,000	....	....	6,172	....	1,663	7,835
Central	C	....	....	6,439	1,22,847	....	2,98,853	1,55,628	4,54,481
	F	21	8,562	386	7,749	147	58	70,915	71,120
Southern	C	104	22,298	7,472	85,862	4,058	4,79,964	27,184	5,11,206
	F	30	10,065	....	....	280	....	2,741	3,021
Total 1940-41	C	104	22,298	24,933	4,29,892	79,649	18,95,289	2,85,011	22,59,949
	F	135	70,627	386	7,749	6,599	58	75,319	81,976
Total 1939-40	C	116	19,601	28,002	4,78,622	78,616	20,79,626	2,90,343	24,48,585
	F	112	39,923	105	3,070	2,328	....	41,057	43,385

As compared with last year concessionists have during the year under report removed less timber, fuel and minor forest produce except for bamboos. No particular reasons can be ascribed for the variations as the quantity removed depends upon the need of the concessionists and also on the durability of the material removed.

There are no rights other than those of way. Privileges allowed under settlements, local rules and other Government orders were enjoyed by villagers as usual.

The following extra privileges and concessions were granted to the people during the year :—

(1) The concession of giving one *tali* (*Corypha umbraculifera*) palm tree per adult and $\frac{1}{3}$ of palm tree for every child under 12 free of charge up to a limit of 1,800 per year was granted in 1938 to poor people, whatever their caste, of Honawar, Bhatkal, and part of Kumta. Government has now ordered that *tali* leaves and seed should also be granted free to poor people.

(2) The practice of free removal of grass in cart loads is to continue wherever it exists but is limited to one cart load per head of cattle and the removal by carts restricted to recognised cart tracks in areas where plantations are being raised and in closed areas. The concession with these restrictions has also been conceded to privilege holders in certain parts of the Northern and Southern Circles where its removal by head loads only was permissible.

(3) The fees for bamboos removed from Navapur, Chinchpada, Nandurbar and Taloda Ranges of the West Khandesh Division, have been reduced in the case of persons who produce a certificate from village officers that they are required for *bona fide* agricultural and domestic use.

(4) The concession granted to the *chambhars* (shoe-makers) in East Khandesh of removing *tarwad* (*Cassia auriculata*) bark on permits at fixed rates of fees was not availed of by them. The farm was therefore sold during the year with the sanction of Government, on condition that the purchaser will not interfere with the collection of the bark by permit holders.

(5) In Kanara the concession of cutting and removing reserved trees (except teak (*Tectona grandis*) blackwood (*Dalbergia sissoo*) sandalwood (*Santalum album*) in strips with a view to covering the cost of clearance is to be decided by the Collector of Kanara in each individual case on its merits.

(6) The villagers of forest villages in the East and West Khandesh Districts are permitted to collect and remove bones from forest areas on free permits on the condition that the bones are collected from such areas as are mentioned in the permit and removed by head loads for *bona fide* agricultural purposes and not for sale or barter.

(7) Droppings of animals in the forest of Kanara are not to be sold but allowed to be removed by the people free of charge for agricultural purposes.

In consequence of the cyclone of 16th October 1940, many people living along the coast suffered heavy losses by damage to their houses, gardens and boats, etc. Prompt measures were, however, taken to help the people by giving them free grants of timber and bamboos. The total value of timber and bamboos granted free in the three Thana divisions amounted to Rs. 34,770 and Rs. 4,656 respectively.

A similar grant amounting to Rs. 1,575 was given for the same purpose in the Kolaba division. Under the orders of Government a free grant of teak timber from Kodibag depot in the Kanara Western division was sanctioned to some fishermen who suffered from the cyclone but the grantees could not remove the material by the end of the year for want of vessels. Part of the material was however removed after the close of the year and those who could not remove the timber granted to them before the rains have been permitted to remove it after the rains, i.e., in November 1941.

(iv) *Outturn and sources of forest produce.*

The following table compares the outturn from all sources of forest produce during the years 1940-41 and 1939-40;—

Circle.	Year.	Major forest produce.			Minor forest produce.		
		Timber Cft. in thousands.	Fuel Cft. in thousands.	Sandal- wood Value.	Bamboos value.	Grass and grazing value.	Other produce value.
				Rs.	Rs.	Rs.	Rs.
Northern	1940-41.	3,462	21,519	125	92,728	11,73,072	1,37,918
	1939-40.	2,985	19,240	75	91,784	10,22,422	1,65,365
Central	1940-41.	1,235	12,156	257	12,805	3,90,965	2,62,342
	1939-40.	940	12,297	327	10,452	7,34,340	1,82,909
Southern	1940-41.	2,811	12,648	1,18,296	80,491	4,80,658	61,786
	1939-40.	2,445	16,240	82,619	68,508	4,84,670	85,057
Total	1940-41.	7,508	46,323	1,18,678	1,86,924	20,41,695	4,62,946
	1939-40.	6,370	47,777	83,021	1,70,744	22,41,432	4,33,529
Difference be- tween 1940-41 and 1939-40.		1,138	-1,454	35,657	15,280	-1,96,737	29,417

Forest labour and wages.

The annual forest operations such as exploitation of forests, construction of and repairs to buildings, roads etc., provide employment for a considerable number of people. The following table gives an estimate of the labour employed on forest works and remuneration paid during the year:—

Circle.	Agency of employment.	Number of labour units.	Aggregate amount earned.
			Rs.
Northern ..	Departmental ..	3,33,590	90,181
	Contractors ...	41,59,360	13,18,635
Central ..	Departmental ...	1,92,000	61,149
	Contractors ...	15,76,985	5,15,416
Southern ..	Departmental ..	2,97,624	1,60,384
	Contractors ...	14,31,363	6,98,581
Total ..	Departmental ..	8,23,214	3,11,714
	Contractors ...	71,67,708	25,32,632

The condition of payment of compulsory minimum wages by forest contractors to their labourers which were introduced as an experimental measure in 1939-40 in the three Thana and Kolaba divisions were continued during the year. Though the contractors disliked these conditions the labourers have been benefitted to some extent as they are beginning to learn what wages they should receive for their labour. In spite of the facilities and encouragement given to the labourers to represent their grievances, and personal enquiries made by the Conservator and the Divisional Forest Officers there were no complaints from any of them regarding payment of their wages except from a few in the East Thana Division where the contractors concerned were fined or warned for breaches of payment conditions. Government has since appointed a special officer for the protection of the *Katkaris* (hill tribe) and it is hoped that matters will improve still further. These wage conditions were also extended during the year to the richer coupes of Nawapur, Nandurbar, and Taloda Ranges of the West Khandesh district and the results are being watched.

UTILIZATION.

Industries.

The Forest Utilization Officer, Province of Bombay, has compiled a report on the forest utilization activities which is being printed and published separately. The following is a summary of the progress made in some of the industries which have not been mentioned in the Utilization Officer's report.

Match manufacture.—The concession of removing certain softwood by the Belgaum Match Factory at Rs. 4 per ton for 2 years was cancelled as the Factory was closed down.

Bee-keeping industry.—The District Rural Development Board, Belgaum, was granted the right of collecting honey and wax from the forests of the Khanapur and Nagargali ranges in the Belgaum division for an average price of Rs. 480 to help in starting the bee-keeping industry at Nandgad.

Destructive distillation of wood.—The Bharat Wood Distillation Factory in the Belgaum division was given 4 coupes at average rates but the factory worked only one coupe during the year and the remaining three are being worked under extensions. The purpose for which the Factory was started has not yet been achieved and it is still not in production. The whole position is now under enquiry.

Sandalwood carving.—The assistance to this industry was continued by supplying sandalwood at the concession rate of 25 per cent. of the market value to the sandalwood carvers of Honawar. This concession has been extended to certain sandalwood carvers at Surat and an annual subsidy of Rs. 562-8-0 for 3 years is sanctioned by Government to the Industries Department for the purpose.

Charcoal gas.—The Forest Engineer continued his experiments with charcoal gas producers. He visited Messrs. Simpsons, Madras, and being satisfied with the performance of their charcoal gas producer purchased, the latest type of the plant for Rs. 1,481. This has been fitted to a 1941 Chevrolet chassis owned by Messrs. the Karnatak Express Motor Services, Belgaum. The Forest Engineer, accompanied by several interested people e.g., bus owners, tested the plant with a timed climb up the Bagewadi ghat on the Belgaum-Dharwar road. The demonstration was satisfactory. The bus owner was instructed to complete the body building and after getting it passed, to run the bus for service on the Belgaum-Dharwar road. Selected quality of charcoal of the following species was supplied to the firm who has been requested to keep a record of consumption and other details and to submit weekly progress reports:—

- (1) *Mushwal (Chloroxylon swietenia).*
- (2) *Matti (Terminalia tomentosa).*
- (3) *Kindal (Xylocarpus xylocarpa).*
- (4) *Dindal (Anogeissus latifolia)*
- (5) *Tugli (Albizia amara).*

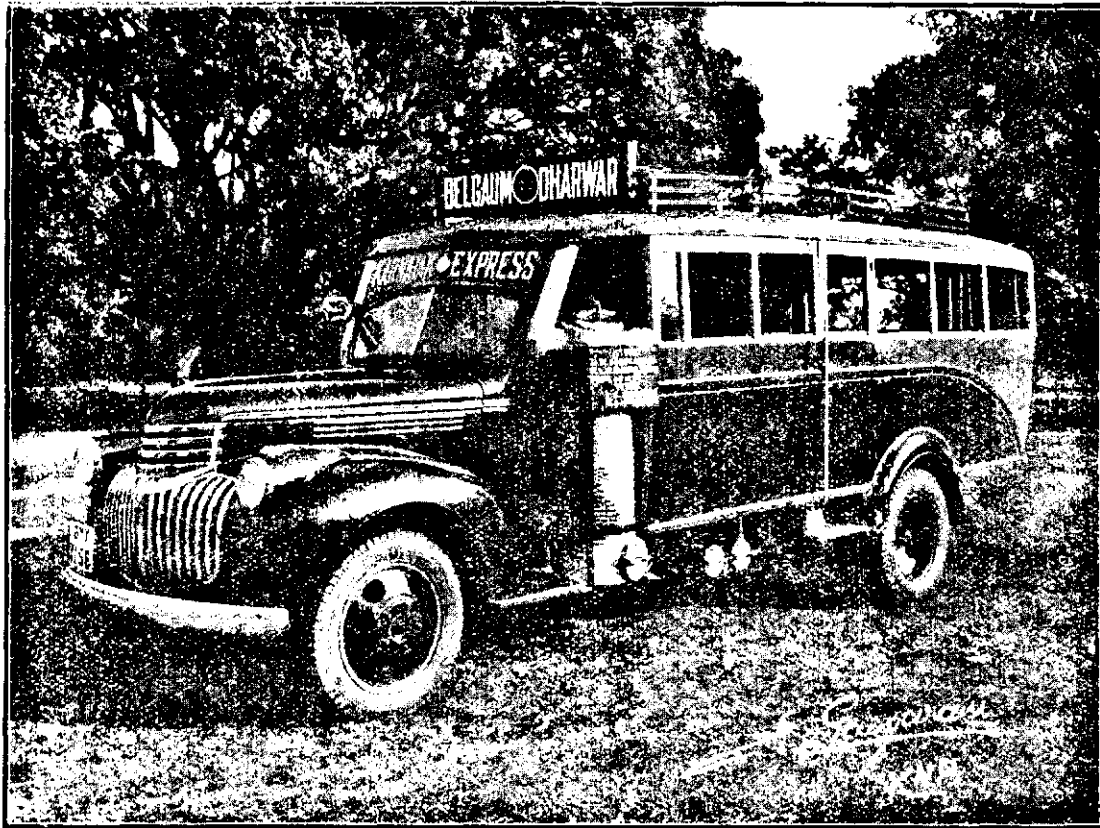
Picking stick arms.—The experiment referred to in the last year's report was continued. A further 42 weeks' test of the *dhaman* (*Grewia tiliacifolia*) sticks was carried out by Messrs. Budge Budge Jute Mills, Calcutta, the total period of test being 66 weeks. Of the sticks supplied one was broken in the 60th week and the remainder survived the test. These experiments indicate that unseasoned *dhaman* (*Grewia tiliacifolia*) sticks compare very favourably with ordinary English "ash" sticks as they have been working 3,050 hours and the average life of ordinary "ash" sticks is reckoned as 3,000 hours. The potentialities of our sticks compared with "ash" appear to be very real and *dhaman* (*Grewia tiliacifolia*) particularly appears to be excellent.

Supply of material for war purposes.

In order to help the Conservator of Forests, Southern Circle, in the work of organising war supplies Mr. T. K. Mirchandani, M.B.E., was appointed as his assistant for a period of six months from 5th November 1940.

The following supplies were made from this Province :—

Description.	Material supplied.	
	Quantity.	Value.
		Rs.
<i>Northern Circle.</i>		
Ballies 6"	5,000	} 1,00,700
.. 4"	1,45,000	
<i>Central Circle.</i>		
Ballies 4"	41,780	31,630
<i>Southern Circle.</i>		
Fitted bamboos for tent poles	3,000	7,131
Bamboos for War reserve	8,245	4,889
Sheets for air craft construction in England	5,000	426
Teak ballies	11,708	12,879
Rose wood logs	80 tons.	} 8,768
Bijasal (<i>Honne</i>) logs	20 "	
Dhamin logs	67 "	} 5,225
indal logs	50 "	



Latest type Simpson Charcoal Gas Producer Plant fitted to a 1941 Model Chevrolet Bus owned by Messrs. Karnatak Express Motor Service, Belgaum. The plant was purchased on behalf of Government of Bombay for demonstration purposes at a total cost of Rs. 1,481. and is now plying between Belgaum and Dharwar.

Description.	Material supplied.	
	Quantity.	Value.
		Rs.
Nailable timber in hutting sizes	800 tons.	75,000
Teak logs squared	400 "	66,000
Teak logs round	160 "	
Teak spars	100 "	2,596
Teak squares	12 "	
Teak spars	55 "	
Teak squares	12 "	9,716
Teak transmission poles	345 "	
Teak sleepers of special sizes	55 "	1,375
Teak squares	100 tons.	12,500
Teak squares and swan material	4,636 Cft.	22,275
Total		3,61,110

A supply of 200 tons of non-nailable timber (*nandi* 125 tons and *kinda* 75 tons) was arranged through a contractor Mr. Haldipur. Out of this about 23 tons has been rejected at Bombay and the question for payment for this is under consideration.

The following material was supplied for trial purposes or as samples :-

Quantity.	To whom supplied.	Remarks.
<i>Dhamin</i> sawn wood 10 Cft.	Gun Carriage Factory, Jubbulpore.	The result of the trial is not yet known
<i>Logs</i>		
2 of <i>Lagerstromia lanceolata</i> —47·73 Cft.	Royal Indian Navy.	
2 of <i>Grewia tiliaefolia</i> —42·27 Cft.		
<i>Mimisops elengi</i> and <i>Mimisops hexandra</i> samples.	Gun Carriage Factory, Jubbulpore.	

Two logs of each of the species (a) *Odina wodier*, (b) *Calophyllum tomentosum* and (c) *Hopea parviflora*, are also being supplied as samples.

The Supply Department asked for 100 tons of *dindal* and 250 tons of *dhamin* logs, and about 70 tons of *dindal* logs and 18 tons of *dhamin* logs, were prepared to meet these indents. In the meantime the indents were withdrawn and the material prepared is in stock, except *dindal* which has since been disposed of by sale.

Some quantity of bridging timbers of *kindal*, *matti*, etc., collected to meet the demand of the Supply Department is now lying at Dandeli since the order for the supply was placed elsewhere and it is being held in reserve against future orders.

The Supply Department requested this Province to put on the Bombay market a large quantity of junglewood timber. For this purpose, it has been proposed that in addition to the Kalinadi slopes, the Nirsol compartment in Kanara Western Division and the Raman-guli compartment in Kanara Western Division should be worked departmentally.

An enquiry from the Inspector, Gun Carriage and Vehicles, Jubbulpore, was received through the Forest Utilization Officer, Poona, for Gun Carriage skids. The Inspector has now asked for 4 sample pieces for trial and they are being supplied. The Supply Department also asked for quotations of quantities of *sissum* and *honue* that could be supplied to the Gun Carriage Factory, Jubbulpore. About 425 tons rosewood and 50 tons *bijusal* (*honue*) wood was offered and has been accepted by the Supply Department after the close of the year.

The Supply Department desired that all *ballies* purchased by them should be creosoted by this Department at their expense. Mr. A. G. Dubhashi, Ranger from the Southern Circle, has therefore been deputed to the Military Timber Depot, Bombay, for creosoting all *ballies* supplied from Bombay Province.

CHAPTER IV-A.

FOREST ENGINEERING BRANCH.

The activities of this branch are confined chiefly to surveys of roads, preparation of plans and estimates for roads and buildings and other works, organization of mechanical extraction of timber and supervision, repairs and maintenance of sawmill machinery. The work done during the year is summarised below :

I. SURVEYS.

Nil.

2. DESIGNS AND DRAWING WORKS.

Plans and estimates of about 100 buildings and roads, culverts and bridges, etc., in all the Circles were prepared and/or checked by the Forest Engineer in addition to the general supervision of engineering works in progress.

Mechanical Skidding.

The report, as usual, covers the period of the working season from 26th November 1940 to 10th May 1941 and not of the financial year. Timber extraction was carried out in XI-A compartment 6-21/6-21-B by the Fordson log skidder outfit. The total output was 1,055 tons against 734 tons last year. The cost exclusive of overhead charges works out to Rs. 6-9-2 per ton with an average length of haul of 1,800 feet against Rs. 9-9-5 per ton with an average length of 1,858 feet last year. The decrease in the cost of extraction is due to efficient supervision, lesser length of haul and the continuous working of the tractor without a breakdown.

Saw Mills.

There were two mills working at Dandeli—(1) two Robey engines operating nine sawing units and the American log mill and (2) the Fowler mill. The former worked throughout the year and the latter started work in February last.

The following table compares the total output for 1940-41 with that for 1939-40 of mill No. 1 and shows the outturn for 2 months of mill No. 2 :—

Description of outturn.	Mill No. I.		Mill No. II.
	1940-41.	1939-40.	1940-41.
	Cubic feet.	Cubic feet.	Cubic feet.
Toak (<i>Tectonâ grandis</i>) M. G. sleepers ..	62,123	90,786	4,892
Toak sawn material	78,326	71,837	2,546
(Junglewood) sawn wood	465	498	....
Total ..	1,40,914	1,63,121	7,438

The decrease in the total output of Mill No. I is due to less production of larger sized material i.e., sleepers.

The results of the working of these mills is summarised below :—

Items.	Mill No. I.		Difference.	Mill No. II.
	1940-41.	1939-40.		1940-41.
	Rs.	Rs.	Rs.	Rs.
Revenue	2,94,484	2,67,692	26,792	6,200
Expenditure	1,09,666	1,23,344	— 13,678	6,197
Net profit	1,84,818	1,44,348	40,470	3
Capital at charge	1,88,720	1,68,128	20,592	13,718
Percentage of net profit on Capital.	97.9	85.8	....	....

The increase in the net profit of mill No. I is due partly to better prices obtained for sawn material in sales and partly to larger quantity of material sold.

Mill No. II worked for only two months during the year and its outturn, which was sold in 1941-42 was, for the purpose of the trading accounts, valued at cost price which is far below the rate realised in auction sales. This accounts for the very low profit of Rs. 3 recovered during the year.

Deadstock and Stores.

The deadstock of the saw mill was checked with the registers. Consumable stores valued at Rs. 7,480 and new articles of deadstock worth Rs. 29 were supplied to the mills during the year. Owing to War Conditions it has been very difficult to obtain circular saws of the approved quality and sizes for supply to the mills. Due to non-receipt of saws for which orders were placed with the Indian Stores Department in September 1939, some old and unserviceable saws from the Badgi, Haste, Chikhaldia and Sundha mills which were kept for disposal have been brought to Dandeli and will be used after retensioning. Attempts were also made to obtain saws from firms in Bombay and Calcutta with the result that 10 saws of different sizes were secured. Arrangements have now been made to get priority certificates for the saws already indented for and it is hoped that the saws will be received by end of December.

During the year under report the Forest Engineer had also to extend his activities to War Supply work. He complied with the educational order of 3,000 fitted tent poles and also a further order for treated *bamboos*. For this work he had to design a special sheet steel tank for treatment of bamboos with oil and creosote and presses for straightening them. Pressed steel caps from circular metal discs and steel gauges to cover all permissible diameters were also designed by him. He had also to organise the work of creosoting *ballies* in Bombay on behalf of the Supply Department. For this purpose he designed and built two portable tanks with wooden frames and accessories.

CHAPTER V.
FINANCIAL RESULTS.

The revenue and expenditure of the year compared with those of the past year and the average of the past quinquennium 1935-36 to 1939-40 are as follows :—

Circle.	Year.	Revenue.	Expenditure.			Surplus or deficit.	Percentage of surplus to revenue.
			Contingency.	Establishment.	Total.		
		Rs.	Rs.	Rs.	Rs.	Rs.	
Northern	1940-41..	19,36,801	1,97,145	6,29,340	8,26,485	11,10,316	57.32
	1939-40..	15,24,831	1,46,478	6,15,130	7,61,608	7,68,228	50.05
	Average	17,10,671	1,37,268	6,01,251	7,38,519	9,72,152	56.7
Central	1940-41..	6,94,321	1,10,552	5,18,067	6,28,619	65,702	9.3
	1939-40..	6,75,263	1,10,899	5,26,370	6,37,269	37,904	5.6
	Average	8,80,112	98,221	5,98,481	6,91,702	1,68,410	21.4
Southern	1940-41..	18,07,323	4,70,441	5,90,500	10,60,941	7,46,382	41.3
	1939-40..	16,46,224	3,70,760	5,67,900	9,47,660	6,08,564	42.4
	Average	18,38,916	4,61,483	5,80,214	10,41,697	7,97,219	43.4
General Direction	1940-41..	15,214	33,519	1,62,024	1,95,543	-1,80,329	..
	1939-40..	13,937	33,968	1,91,812	2,25,780	-2,11,843	..
	Average.	10,489	58,174	1,48,390	2,06,564	-1,06,075	..
Forest Engineer	1940-41..	104	17,574	38,004	55,578	-55,474	..
	1939-40..	345	9,946	33,756	43,732	-43,387	..
	Average.	3,321	12,814	33,150	45,994	-42,673	..
Forest Utilization Division.	1940-41..	5	480	11,844	12,324	-12,319	..
	1939-40..	..	70	4,928	4,998	-4,998	..
	Average	..	..	..	..	..	..
Silvicultural Division.	1940-41..	..	1,475	27,780	29,254	-29,254	..
	1939-40..	5.	792	5,027	8,819	-8,814	..
	Average	..	..	..	..	..	..
Total	1940-41..	44,53,768	8,31,186	19,77,568	28,08,754	16,45,014	36.9
	1939-40..	38,60,605	6,81,913	19,47,953	26,29,866	12,30,739	31.9
	Average	44,43,512	7,68,132	19,59,108	27,27,240	17,16,272	38.6
Difference between 1940-41 and 1939-40.		5,93,163	1,49,273	29,615	1,78,888	4,14,275	..

Compared with the figures of the preceding year, the revenue, expenditure and surplus increased by 593·1, 172·6 and 420·4 thousands of rupees respectively.

The increase in revenue is due to various causes, the chief of them being the supply of timber and *bamboos* for war purposes, good prices obtained for forest, *maliki* and *gurcharan* coupes, sale of cyclone damaged trees in Thana divisions and in the Surat Sub-division, sale of teak trees from the revenue waste lands given out for cultivation in the Surat Sub-division and the higher earnings from the Alnawar-Dandeli Railway.

The expenditure under conservancy and works has increased by 149·2 thousands of rupees and this was due to the extensive departmental operations undertaken for the supply of timber and *bamboos* for war purposes, marking for sale of a very large number of cyclone-damaged trees all over the forests in the Thana Divisions, sawing up of a large number of sleepers for supply to the M. & S. M. Railway in 1941-42, increase in the expenditure on the working of the Alnawar-Dandeli Railway and payment of a larger amount of bonus to the District Local Board and the *maliki* owners for the Thana teak.

The appointment of additional staff for the Thana *gurcharans*, the employment of temporary staff for war supply and for marking cyclone-damaged trees account for the increase under "Establishment" which records an increase of 23·3 thousands of rupees.

The analysis of receipts and expenditure shows that of the receipts 85 per cent. came from major produce; 8 per cent. from minor produce and 7 per cent. from miscellaneous sources; while of the expenditure 28 per cent. was incurred on extension, constitution, improvement and exploitation and 72 per cent. on administrative, executive and protective charges.

The outstandings on account of revenue at the commencement and close of the year were as follows :-

Circle.	On 1st April	31st March
	1940.	1941.
	Rs.	Rs.
Northern	69,095	85,026
Central	10,807	14,481
Southern	1,89,399	2,66,141
Total ..	2,69,301	3,65,648

CHAPTER VI.

RESEARCH AND EXPERIMENTS.

The annual Research Report for the Province of Bombay compiled by the Silviculturist is being printed and published separately. A summary of the experiments tried by the Divisional Forest Officers on their own initiative or under orders of the Conservators is given below :—

(1) The experiment of propagation of *bamboo* (*Dendrocalamus strictus*) by "layering" was continued in the North, East and West Thana Divisions, East and West Nasik Divisions and the Surat Sub-Division. In the North Thana Division it was noticed that good shoots come only from rhizomes and nodes fail to produce good shoots. Although the monsoon during the year was favourable and the experiment was carried out with the greatest care the results were discouraging except in the Surat Sub-Division and it can now be definitely stated that the method of propagation of *bamboos* (*Dendrocalamus strictus*) is not capable of good results in the climate and soil conditions which prevail in Thana. In the Mandvi range, however, most of the shoots that came up survived the hot season.

(2) *Propagation of lac*.—The experiment was continued during the year under report. Well before the rains broke young branches of *babul* (*Acacia arabica*) saplings in rabs were lopped off so as to get a new flush of very tender succulent young branches. The "brood lac" received from Hyderabad (Sind) did not appear to be fresh. These sticks were, however, tied to the new flush of tender branches of *babul* (*Acacia arabica*) trees. Later regular observations revealed no swarming. The experiment thus proved a failure.

(3) The experiment of reboising thinly stocked grassy areas in the Tansa Catchment area of the East Thana Division was practically closed in the year 1939-40.

(4) Stumps from 5 year old *kashid* (*Cassia siamea*) plants from a thickly grown plantation in the East Thana Division were taken out partly to thin the plantation and partly to see if such stumps could succeed. The stumps did sprout but were rather bushy.

(5) *Bibla* (*Pterocarpus marsupium*) plants raised last year in small nursery rabs, in East Thana were, as elsewhere found to be too small for "stumping" at the beginning of the 2nd year. Hence they are being preserved for one year more.

(6) *Kaju* (*Anacardium occidentale*) seed was tried in Gareghar F.S. XIII-6 of the Satara Sub-Division. Sixty seeds germinated out-of which only 20 survived at the end of the season.

NATURAL REGENERATION—COPPICE GROWTH.

On account of pressure of work in connection with war supplies, no work could be undertaken in connection with the experiment to be carried out in Kanara Western Division in order to discover whether there is any difference in coppice growth from trees cut flush with ground and from those cut at 6" to 9" above ground level.

ARTIFICIAL REGENERATION—(1) TUNG (ALEURITES FORDII).

In the experimental nursery started on 30th January 1937 at Bomnalli in Kanara Northern Division, the surviving plants on 31st March 1940 were 58 (33 transplants and 25 seedlings in the nursery) as reported last year. Of 33 surviving transplants, 5 died in May last and 28 are alive. Twelve of the surviving 25 seedlings in the nursery beds also died in May and 9 fresh seedlings sprouted in the rains during the year. The total survivals at close of the year are therefore 50 (28 transplants and 22 seedlings in the original nursery beds). The surviving plants are doing well, the height of the best one being 116". They are however very branchy and do not show signs of healthy growth in height. Since the stoppage of watering in 1938, the casualties in hot weather have gradually increased although some apparently dead plants re-sprout in the rains thus proving that the species requires excessive moisture. From the results so far obtained successful introduction of this species on a large scale in Kanara Northern Division appears to be very doubtful.

(2) CHLOROPHORA EXCELSA (UGANDA).

As stated in last year's report the seed of this species obtained from the Silviculturist, Dehra Dun, was tried in two divisions, i.e., in Kanara Northern Division and Kanara Eastern Division. Including 1 stump apparently dead but re-sprouted subsequently 15 plants (6 transplants and 9 stumps) are now surviving out of 4,822 seeds sown in 1937 in Kanara Eastern Division. Out of 3,748 seed sown in different localities in Kanara Northern Division the survivals including some apparently dead plants subsequently re-sprouted were 298 (221 seedlings and 77 stumps) at close of the year. The height growth of the best plant in Kanara Northern Division is not sufficiently rapid and shows that this species is unable to withstand natural difficulties of grass and weed and its propagation on a large scale would not be successful.

(3) MAHOGANY SWIETENIA.

The seed of this species obtained from the Royal Botanical Garden, Calcutta, was dibbled 9' x 9' in well drained soil in a portion of Maingini coupe—Karwar Range in Western Division Kanara as reported last year. Of the 120 plants living last year, only 58 are reported to be surviving now, the casualties being due to violent rubbing by wild animals. The condition of the survivals is good, their height ranging from 3' to 4'.

(4) CINCHONA.

The Economic Botanist and the Agricultural Chemist to the Government of Bombay, Poona, visited the ever-green forests in Kanara Eastern Division during May 1940 to study the possibility of cinchona cultivation. Four plots were closely inspected and the soil analysed. The result of this analysis was placed before the half-yearly meeting of Heads of Agricultural and Forest Departments where it was agreed that cinchona could not be cultivated profitably due to deficiency of acid in the soil and unfavourable condition of rainfall and temperature.

(5) PROPAGATION OF EUCALYPTUS SPECIES.

Seeds of four varieties of Eucalyptus, viz., *E. citridora*, *E. teretocornis*, *E. robusta* and *E. rostrata* each constituting a small fraction of an ounce were sown in lines in three nursery beds prepared for the purpose in the compound of the forest bungalow No. 1, Yellapur. Out of 41 transplants, 11 plants of *E. citridora* are alive and are 10" to 12" in height. The seed of the remaining varieties did not germinate.

The seeds of the above species were also sown in the compound of the Yekkambi Naka in Sirsi-Siddapur Range as under :—

<i>E. citridora</i>	..	..	..	12 $\frac{2}{3}$ ounces.
<i>E. teretocornia</i>	..	..	..	6 ..
<i>E. robusta</i>	..	..	..	$\frac{5}{8}$..
<i>E. rostrata</i>	..	..	..	$\frac{3}{4}$..

E. citridora sown in lines in 20 beds and *E. teretocornis* sown in lines in 12 beds have germinated.

330 seedlings of *E. citridora* out of 1,000 germinations in the 20 beds have survived. The plants are now 1 $\frac{1}{2}$ " to 3" high.

36 seedlings of *E. teretocornis* (sown in the 12 beds) are so far healthy and are $\frac{1}{4}$ " to 1 $\frac{1}{4}$ " in height.

The result of the remaining varieties is being watched.

(6) The experimental plantation of 20 acres raised in compartment V-1 Dandeli Range, Kanara Northern Division as mentioned in the last year's report was successfully protected from fire during the fire season and the teak stumps planted have grown well. Under instructions from the Chief Conservator, an additional area of 20 acres adjoining the existing test plot will be planted next year and for this purpose the area is clearfelled this year after removing all saleable timber.

(7) KAJU (*ANACARDIUM OCCIDENTALE*).

In the experimental *kaju* plantation raised at Binge in Karwar Range, Western Division Kanara, a few casualties were replaced. Though the plants are fairly healthy they are not uniform in height and vigorous in growth, the soil which is pure sand, being unsuitable for such plantation. As suggested by the Provincial Silviculturist, three different localities of laterite soil—two in Karwar Range and one in Honawar Range—were planted with this species. Out of 600 transplants in the plots in Karwar Range which were not watered during the fair season, 450 are now surviving in fairly healthy condition, the maximum height being 24". In the plots in Honawar Range 150 plants out of 300 planted were watered every alternate day. The seedlings in the irrigated part of the plot are 9" in height while the remainder are only 7" and casualties are 6 per cent. No definite conclusion can yet be arrived at, but the planting in laterite soil promises success. The Kumta Agricultural Farm is reported to have raised a similar plantation successfully.

(8) REGENERATION OF *HOPEA PARVIFLORA*.

In Honawar Range of Kanara Western Division 6 mother trees of *Hopea parviflora* were kept clear of undergrowth, and understorey below the trees was opened in different degrees of density in order to observe the effect of such clearing on young regeneration. The result so far achieved appears to be fair and the seedlings are in a thriving condition.

Transplanting of seedlings of this species raised in nurseries has also been tried in this Range. Out of 1,175 seedlings (including 20 one year old seedlings brought from South Kanara) only 286 are surviving. The 19 surviving plants out of those brought from South Kanara, are 3'-4" to 4'-6" in height while the average height of the rest ranges from 4" to 12". It will take some years more for arriving at any conclusion about this experiment. But from the present rate of casualties it would appear that propagation of this species by artificial methods would be both expensive and difficult.

(9) The experimental sandalwood (*Santalum album*) plantations raised in 1934 to 1936 at Nagargali in Belgaum Division are too dense and some 30 per cent. thinnings will be necessary. Thick *lantana* and over topping *cassia* were cut back and the plots have been fire protected.

(10) *PROSOPIS JULIFLORA*.

At the instance of the Provincial Silviculturist the introduction of this species is being tried in Belgaum Division. Three plots have been selected for being planted in the rains of 1941-42 with one maund of the seed obtained from the Silviculturist.

OTHER EXPERIMENTS.

(1) *Jamba (Xylia dolabriformis) sleepers.*

The 223 passed sleepers (107 clamped and 116 unclamped) kept for seasoning as mentioned in last year's report were reinspected in October 1940 and 123 of them were rejected having developed cracks. Attempts to dispose of the remaining 100 (57 unclamped and 43 clamped) passed sleepers did not succeed. The sleepers were again inspected after the close of the year, i.e., in May 1941 and only 63 (13 clamped and 50 unclamped) have been selected as passed. These sleepers finally passed have now 14 months of seasoning and are being supplied to the Chief Ordnance Officer, Bombay.

(2) The three test plots laid out to ascertain the reason for poor girth increment of sandal (*Santalum album*) in the Belgaum Division are discontinued, as in the opinion of the Silviculturist, they serve no useful purpose. Fresh plots have been laid out under his direction.

(3) *Preservation plot.*

A one acre plot has been laid out in coupe III-B-16, Kanapur Range in Belgaum division with the object of preserving the type of forest for which the plot is selected. The trees included in the plot have been identified, numbered, girth recorded and a list prepared. No fellings are to be carried out in this plot except climber cutting on a 5 year cycle. This plot has been extended by 14 acres to make it a 15 acre plot at the instance of the Silviculturist.

As suggested by the Provincial Silviculturist a plot of 24.4 acres in Kabbarga forest containing both deciduous and evergreen species (about 50 per cent. each) has been laid out in Kanara Western Division as a preservation plot. It has been inspected and approved by the Silviculturist.

CHAPTER VII.

ADMINISTRATION.

The post of Chief Conservator was held by Mr. A. C. Hiley, C.I.E., I.F.S., throughout the year.

The territorial Circles were held by the following officers:—

Northern Circle	..	Mr. H. W. Starte, from 1st April 1940 to 31st March 1941.
Central Circle	..	Mr. H. P. W. Davis, from 1st April 1940 to 13th October 1940. Mr. W. C. de C. Walsh, from 14th October 1940 to 16th December 1940. Mr. R. P. Dalley, from 17th December 1940 to 31st March 1941.
Southern Circle	..	Mr. J. B. T. Brooks from 1st April 1940 to 31st March 1941.

According to the exigencies of administration the usual transfers of officers took place. Mr. H. C. Holmes who joined up for service in the Royal Navy from 1st November 1939 continued to be in Military service during the year. Similarly Mr. J. Walker whose services were placed at the disposal of the Government of India in the Military Department continued to work in the Supply Department. After the close of the year Mr. H. J. C. Millett, was granted leave and permitted to take up military service.

Mr. E. A. Garland reverted to this Province and in his place Mr. G. S. Singh was deputed under the Government of India for appointment as Personal Assistant to the Inspector General of Forests.

As mentioned in Chapter IV, Mr. Mirchandani, an officer in class I held the special post of Assistant to the Conservator of Forests, Southern Circle, which was created for organisation of war supplies for six months from 5th November 1940 to 4th May 1941.

Mr. W. E. Pereira, M.B.E., was promoted to Class I.

Mr. S. G. Pithwa, Assistant Conservator of Forests, worked as Sub-Divisional Forest Officer, West Thana, from 21st April 1940 to 5th November 1940 when he proceeded on leave and eventually retired on invalid pension from 6th March 1941.

The Superintendents in the offices of the Chief Conservator and Conservators were given gazetted status after the close of the year and their scales of pay were revised in view of the raising of their status and the addition to their responsibilities.

SUBORDINATE AND CLERICAL SERVICES.

(i) *Training of Rangers.*

Eight candidates were selected for the Rangers' course for 1940-42. One of these was reported to be physically unfit and one resigned his nomination reducing thereby the number of Government nominees to 6. These together with 2 private students and 2 nominees from Indian States formed a class of 10 students. They have completed one year's training and if successful in the final examination will pass out as Rangers in April 1942. The revenue realised from fees was Rs. 3,500 against an expenditure of Rs. 9,346 during the year. Government have sanctioned the continuance of the class for a further period of 2 years and have issued orders to select six candidates for the department for the 1942-44 course.

(ii) *Training of Foresters.*

The Foresters' class at Mandvi in the Northern Circle was, as usual, conducted by a Ranger. Out of the 24 students (13 from Northern Circle and 10 from Central Circle and 1 from the Dangs) deputed to the class, 3 were sent back as they were unable to follow the course and of the remaining 21 students 17 passed the final examination. Arrangements were made, as last year, for simple instructions in drill.

The annual course for training foresters and guards in Southern Circle under selected Rangers was continued and all the 10 subordinates passed out successfully. Arrangements to open a regular forest class at Haliyal as at Mandvi during 1941-42 are in progress.

Mr. J. P. D'Cunha, Ranger, has been transferred to the Military Department as a temporary Commissioned officer and Messrs. Sohansingh, Ranger, and A. D. Mhta, Forester, have been deputed to the Military Timber Depot at Sewri, Bombay. Subordinates also were deputed under Mr. Karamchandani, Forest Utilisation Officer, for inspection on behalf of Supply Department, of ballies and other material supplied by contractors to that Department.

Additional establishment consisting of 3 rangers 9 foresters and 21 guards was sanctioned by Government for the management of the *gurcharans* in the Thana district for which a working plan has been sanctioned by Government.

The work of the Protective and Clerical establishment is reported to be satisfactory.

The following table gives the casualties and punishments during the year :—

Description.	Northern Circle.	Central Circle.	Southern Circle.	General Direction.	Total 1940-41.	Total 1939-40.
Retirement ..	24	33	20	..	77	71
Deaths ..	5	7	13	1	26	32
Resignations ..	15	4	..	..	19	13
Prosecutions ..	1	1	..	..	2	1
Degradations ..	24	19	..	..	43	73
Dismissals, removals etc.	14	8	..	..	22	31
Total ..	83	72	33	1	189	221

The health of the staff was fairly good except in places which are notorious for their bad climate.

Measures to suppress Corruption.

One case of fraud was detected during the year in the West Khandesh Sub-Division. In this case, the Depot Officer, Dhulia, misappropriated Government money amounting to Rs. 531 received by him as fees for permits for *anjan* (*Hardwickia binata*) leaves and other produce. His *modus operandi* was to remit only a part of the revenue collected and pocket the rest according to his needs. On detection he was prosecuted and sentenced to six months imprisonment and a fine of Rs. 600.

All applications against subordinates were properly enquired into and those found guilty were suitably dealt with.

Government conduct rules and all relative orders of Government were repeatedly brought to the notice of the staff and the evil consequences of corruption were pointed out to them by higher officers in course of their tours. Strict control over expenditure was continued by surprise inspection of works and muster rolls and close scrutiny of estimates. The rates for payment for piece works were, as far as practicable, fixed in public auctions as in the case of other works given on regular contracts. Strict watch was maintained over dealings of Government servants with the public and the contractors.

Inspections and tours.

The Director of Timber Supplies (Mr. D. Stewart, O.B.E., I.F.S.), visited Poona on 5th February 1941 to discuss matters with the Chief Conservator of Forests, in connection with the supply of timber and other material for war purposes.

The Deputy Director of Timber Supplies visited Dandeli in July 1940 and inspected the cutting of *bamboos* (*Dendrocalamus strictus* and *Bambusa arundinecea*) for tent poles.

The Central Silviculturist, Forest Research Institute, Dehra Dun, and his party inspected some of the teak (*Tectona grandis*) plantations in the Southern Circle. Full details of this visit are given in the Silviculturist's report published separately.

The Economic Botanist and the Agricultural Chemist to the Government of Bombay visited the evergreen forests in Kanara during May 1940.

The Chief Conservator toured in all the Circles.

The Conservators while touring inspected all the Divisional offices in their respective Circles. No serious irregularities were noticed.

Civil Suits.

The civil suit filed by Mr. M. G. Pethe of Umbergaon with a view to substantiating his claim to ownership over the teak aftergrowth in certain Survey Numbers of Vase, Peta Umbergaon, district Thana, was dismissed with costs but the plaintiff has filed an appeal in the District Court, Thana.

The civil suit filed by Mr. A. R. Yellapurkar was decided by the First Class Sub-Judge, Karwar, who ordered that Government should pay Rs. 100-2-0 to Mr. Yellapurkar against Rs. 4,000 claimed by him and that the latter should pay the costs of Government and bear his own. Mr. Yellapurkar has filed an appeal in the District Court, Karwar, against this decision.

Land Revenue Administration.

The Divisional Forest Officer, West Nasik, continued to function as Assistant Collector and Excise Superintendent.

The Excise and Revenue administration of the Akrani Mahal continued to be managed by the Forest Department. The administration of the Forests of the Raisingpur Estate continued also to be carried on by the Forest Department under the Court of Wards.

Kumri (Shifting cultivation).

Most of the *kumri* villages in the Belgaum division were inspected by the Divisional Forest Officer and steps were taken to remedy all reasonable grievances and complaints. *Waingan* land applied for by the villagers of Mendil was given to them. Enquiries are in progress regarding the allotment of an area of 400 acres of forest for *kumri* (shifting) cultivation to some villagers of Pargad.

No *dalhi* (shifting cultivation) plots were resumed in the Kolaba division. The area under this form of cultivation is 27,714 acres and 22 gunthas. The assessment collected during the year amounted to Rs. 3,260 including past arrears.

Forest village Panchayats.

The four *panchayats* in Kanara Northern Division continued to function as in the previous year.

No new *panchayats* were formed in Kanara Western Division during the year; but a proposal to form a *panchayat* at Belekeri is under consideration. Of the existing 13 *panchayats* 2 are reported to have planted *kaju* (*Anacardium occidentale*) and two have cleared thorny bushes to the extent of 29 acres to facilitate removal of dry leaves. In the case of other *panchayats* the existing tree growth was protected though no improvement was undertaken. From the report of the Mamlatdar, Ankola, it appears that the people are not giving sufficient attention to the development of this scheme of forest *panchayats*. Many *panchayats* in Kumta taluka are reported to have taken very little interest in the management of their forests.

Relations between the Forest Department and other Departments.

These continued to remain as cordial as ever.

CHAPTER VIII.

GENERAL.

A noteworthy feature of the year was the active association of the Forest Department with war efforts. Extensive departmental operations had to be undertaken to meet the requirements of the Defence Department, in logs, poles and sawn material. A good deal of organization was necessary for arranging the supplies and the material had to be inspected and passed by the officers of this department prior to its despatch. This department had also to undertake the inspection and passing of material e. g. sawn timber, ballies, tent pins etc. supplied by contractors and also to arrange for the creosoting of ballies at Bombay.

Another event of the year was the havoc played by the cyclone of 16th October 1940. The most severe and destructive effects were felt in the coastal divisions of the Northern circle, especially in North Thana and West Thana divisions and to a less extent in East Thana division and the Surat Sub-division. The devastation caused was appalling. Many people including fishermen and others lost their lives, some houses and gardens were damaged and the forests in the coastal belt suffered seriously. It is estimated that over 3 million trees were uprooted or broken in the North Thana division, about 2 lakhs in the West Thana, 32,000 in East Thana and about 45,000 in the Surat Sub-division. It is reported that the only cyclone comparable within living memory was that of 1903 but it is believed that that one was not so severe and destructive as this one of 1940. The forest stand is so depleted that certain deviations from the prescriptions of the working plan must necessarily be made for the next few years particularly in the North Thana.

The Department had to face immediately the following two problems in consequence of the cyclone.

(i) Supply of free grants of timber for rebuilding houses and boats, *bamboos*, *bundhis* for supports for the betel vine; *karvi* (*Strobilanthus callosus*) for repairing *pan* (betel leaf) gardens and orchards; large sized timber for fishing stakes, masts, and sail yards of boats.

(ii) Disposal of the large number of trees uprooted and broken.

In spite of the additional heavy work caused by war supplies and the cyclone the writer of the report is glad to record that work in other directions was not neglected anywhere. As will be seen from the foregoing chapters steady progress was maintained in regeneration of forests, utilization of forest produce and encouraging tree planting by private persons. Afforestation of arid areas in the Northern and Central Circles was extended during the year and the results of the work previously carried out were encouraging. The policy of assisting deserving industries with concessions and of encouraging the opening up of new industries was continued.

There was an improvement in timber and fuel markets, the rise in prices for timber in depots and for coupes and compartments sold standing being noticeable.



Cyclone damage in reserved forests coupe No. 77 F.S.II, Girgaon Round in Sanjan Range, North Thana Division, Northern Circle. (A coupe under II thinning).

G. P. Z. P. 1941.

There was slight improvement in business with the M. & S. M. Railway, which took 30,000 M. G. sleepers and 108 tons of sawn wood against 30,000 sleepers and 94 tons of sawn wood in the previous year. Prospects for the future are however very promising. Under the new contract for three years beginning from 1941-42, 50,000 sleepers are to be supplied annually; but the Railway Company have since increased their requirements for 1941-42 to 1,11,000 and an additional demand for 16,200 sleepers had to be refused in view of the heavy war supplies taken in hand.

Alnawar Dandeli Railway.

The revenue and expenditure of the Alnawar Dandeli Railway accounted for during the year show a net profit of Rs. 3,056 (Rs. 43,446 receipts minus Rs. 40,390 expenditure) or 7.03 per cent. on gross receipts against Rs. 4,208 (Rs. 29,405 receipts minus Rs. 25,195 expenditure) or 14.3 per cent. of the previous year. As the account sheets from the Railway Accounts office were not received in time, the figures for the year exclude the revenue and expenditure for the last three months i. e. for January to March 1941 but include those for corresponding months of the preceding year. The figures for 1939-40, on the other hand, represent as stated in the last year's report the working results of the Railway for nine months only. The comparison of the figures for the two years (past and present) does not therefore indicate the correct working results of the Railway.

Hunting and Shooting.

The revenue realised from fees for game licenses was Rs. 7,166 against Rs. 7,582 in the preceding year.

The details of animals killed in Government forests are given below :—

All India Serial No.	Animal.	Northern Circle.	Central Circle.	Southern Circle.	Total.	Average of 5 years 1935-36 to 1939-40.
1a	Tiger .. ..	..	5	7	12	28
1b	Tigress .. ..	..	3	7	10	9
2	Panther	14	6	26	46	59
3	Wild cat .. ..	..	..	..	..	..
6	Hyena .. ..	..	..	..	..	1
8	Wild dog .. ..	..	..	..	..	2
14	Sloth bear .. ..	..	6	7	13	9

All India Serial No.	Animal.	Northern Circle.	Central Circle.	Southern Circle.	Total.	Average of 5 years 1935-36 to 1939-40.
15	Wild elephant ..	..	..	30	30	18
17	Bison ..	..	..	23	23	20
20	Blue bull ..	2	79	..	81*	39
30	Bhekar (4 horned antelope).	..	..	..	..	2
32	Chinkara ..	..	1	..	1	2
33	Barking deer ..	5	3	..	8	2
37	Sambhar ..	3	2	8	13	16
38	Cheetal ..	2	..	9	11	17
46	Wild pig ..	14	250	443	707†	665
	Total ..	40	355	560	955	889

* Includes 69 blue bull killed by gun clubs in East Khandesh.

† Includes 599 wild pig killed by gun clubs in Satara, Kanara, Belgaum, Dharwar and Bijapur districts.

A *Katkari* (hill tribe) was killed by a tiger near *Kuhe* village in *Bhiwandi* taluka, *West Thana* division, *Northern Circle*. Three persons are reported to have been killed and two injured by wild animals in the *Central Circle*. In the *Southern Circle* two men are reported to have been injured by tigers in *Kod* taluka of the *Dharwar* district one of them having succumbed subsequently.

Rewards amounting to Rs. 1,655 were granted by the Revenue Department for killing wild animals in *Kanara*, *Belgaum* and *Dharwar* districts :—

	Rs.
Wild elephant ..	1,450
Wild dog ..	15
Wild pig ..	176
Panther ..	14
Total ..	1,655

Increase or decrease in the number of wild animals and birds.

In the Panch Mahals where the Government forests are honey-combed with *Talukdari* and State forests a considerable amount of illicit shooting continues to be carried on with the result that game is being gradually exterminated. No reliable data are available regarding increase or decrease in the fauna of the forests but wild animals are reported to have considerably decreased in the North Thana division owing to poaching habits of the villagers, while in the East Thana division it is reported that considerable illicit shooting is going on but the subordinates are powerless to stop it, as the *shikaris* make use of cars and rarely "sit up". In the Southern Circle, carnivora are on the decrease in Kanara Northern and Eastern divisions as also are *sambhar*, and *cheetal* in the high forests of Kanara Northern division and pig in Dharwar district. Bison and elephant in high forest of Kanara Northern and Eastern Divisions and *cheetal* in the interior forests of Kanara Eastern Division appear to have increased. No appreciable change in birds was observed anywhere in this Circle. In the Central Circle, there is no change in the wild animal or bird population.

The Divisional Forest Officer, Kanara Northern division suggests that the area of forest in Kulgi and Virmoli ranges should be turned into a game reserve as the area is particularly suitable being surrounded by rivers on three sides and having very few villages inside it and the Collector of Kanara has expressed his agreement with the proposal.

Gun Clubs.

Three new gun clubs were started in the Dharwar district. The number of animals killed by these clubs in the province during the year is given in the foregoing statement. It appears that the agriculturists have derived considerable benefit from the operations of the gun clubs and night watching of crops in some places is hardly necessary.

Inforest Settlements.

A new settlement at Nyahali (Dhadra) village has been opened in the East Thana division. In all 47 plots measuring 142 acres and 8 gunthas assessed at Rs. 40-11-0 have been given to 21 villagers mostly from the backward classes from Jawhar State and Versala Inam. There is great demand for land for cultivation in almost all districts. No further grants of forest land for cultivation can, however, be made. The total assessment realised in the Northern Circle was Rs. 20,960 and that in the Central Circle was Rs. 43,633 (including Rs. 1,127 arrears). The total amount outstanding was Rs. 289.

Two new settlements were opened in the West Khandesh sub-division and an area of 700 acres near Aslod in the same sub-division has been selected and divided into 42 plots for opening a new settlement. Of these plots 32 have already been distributed to *Bhils* (hill tribe) and the remaining will be given out to deserving *Bhils* after clearing the tree growth during the current year.

An amount of Rs. 13,467 was granted as *tagai* (money advanced for improvement of land) to the settlers in the East and West Khandesh districts in the beginning of the year and Rs. 13,963 including arrears were recovered. The amount of *tagai* outstanding at the close of the year was Rs. 935.

The health of the settlers was on the whole good and quinine was freely distributed amongst them. Vaccination against small-pox and inoculation against cholera were also arranged for in the settlements of the West Khandesh division.

Reserved teak (Tectona grandis) in Varkas lands in Thana.

Twenty per cent. of the sale proceeds of teak (*Tectona grandis*) in *varkas* lands in the Thana district is paid as bonus to the occupants and 30 per cent. to the District Local Board for works of public utility more especially for improvements of communications and water supply in the interior villages of the district. The total amount thus paid to the Local Board since 1932-33 to date is Rs. 97,150 out of which Rs. 22,709 were spent during the year leaving an unspent balance of Rs. 74,441.

In the North Thana division out of the 8 roads financed from the Fund three roads viz., Bordi-Aswahi, Pharse-Shigaon Bhilad Katruck *khind* (mountain pass) were completed, 4 are nearing completion and one viz., Apte-Barothena road has only been surveyed pending acquisition of the land. Two more roads sanctioned by the Standing Committee have not been started. In the East Thana Division 4 wells at Fugala, Umbravne, Washala khurd and Dand were undertaken for construction and all except the one at Fugala were completed. It is proposed to construct seven roads in this division. Estimates for these roads are under preparation and survey of 3 roads is in progress.

In the West Thana division the Board has utilised the major portion of the grant on works approved by the Standing Committee. In executing the programme of work the Board concentrated their attention on costly projects which would benefit only the coastal tracts instead of the interior villages contrary to what was contemplated by Government.

The Conservator of Forests, Northern Circle, remarks that on the whole, the administration of the bonus fund is not quite satisfactory. The District Local Board is most reluctant to submit its estimates for scrutiny and sanction of the Standing Committee due to which the latter finds it impossible to exercise its functions properly. During the year only one meeting was held, viz., on 26th October 1940, and no business of importance was transacted in that meeting. It appears necessary that for the proper administration of this large fund (much of which is lying idle with the District Local Board) at least two meetings in a year are essential

Forest Advisory Committees.

Quarterly meetings of this committee were held in the Thana district in which only questions of local importance were discussed. Generally speaking suggestions came from non-official members for slackening the rules and regulations of the Forest Department. One important question discussed at the meeting was the revision of grazing rules, particularly the levy of fees on non-essential cattle. The official members were of opinion that fees should be charged on non-essential cattle, if the owners refuse to move these to areas with surplus grazing possibilities. A proposed set of grazing rules awaits final approval of the Committee. In the Nasik and Panch Mahals districts only one meeting was held. In the former district a recommendation was made to stop further grant of forest land for cultivation while in the latter the only subject put up for discussion was the plucking of *anjan* (*hardwickia binata*) leaves in the closed forest of East Nasik division.

Three meetings were held in the East Khandesh district, two in the West Khandesh district and none in Kolaba. The questions discussed in East Khandesh were of an ordinary nature except that the members protested against the new grazing rules. In the West Khandesh district new grazing rules were discussed and drafted by the New Fodder and Grazing Committees.

The Forest Advisory Committees in Kanara and Dharwar districts held one meeting during December 1940 and July 1940 respectively and discussed such questions as grant of *hakkal* (dry crop) land for *ragi* (Indian millets) cultivation in frontier villages, extension of the present limit of clearance round all cultivated lands and habitations, permission to strip-grantees to remove all unreserved trees to compensate them for the cost of clearance, destruction of wild elephants in Supa and Haliyal forests, removing forest pressure round habitation and cultivation at Government cost, selection of additional areas to meet adequate requirements of grazing in Kanara, granting the villagers of Chitakule, Majali an Kanasgiri in the Western Division, Kanara, the concession of free removal of material for fencing and agricultural implements from forests of Kadra and Gotegali, discontinuance of the sale of cowdung from forests, publication of the Note on "Forests and their utility" prepared by Mr. M. S. Kalbag, prohibition of professional graziers from Indian states in the forests of Dharwar district, opening of forest depots at taluka headquarters in Dharwar district for sale of wood for agricultural purposes at reasonable prices and planting *nim* (*Azadirachata indica*) by agriculturists in Dharwar in places where *babul* (*Acacia arabica*) does not grow. All these matters were dealt with to the satisfaction of on-official members.

Inam and Private forests.

During the year under report Rs. 191 were credited as *judi* on the sale proceeds of inam forests of Nanala and Khaire-Ambivali in the West Thana division.

The Bombay Municipal forests of Tulsi, West Thana division continued to be under the management of this Department and on 1st August 1940, the Municipal forest forming the catchment area of the Vihar Lake was also handed over to the Forest Department for management. Rs. 1,932 accrued to Government as its share of the revenue, while the Bombay Municipality was paid Rs. 3,864 as a result of the management as against Rs. 2,493 paid to the Municipality during the previous year.

Village Improvement Scheme.

Since 1935-36 Forest Officers of all ranks have been doing work in connection with Rural Development. Instructions are given on the value of forests to the community, on the need for the protection of forests, on the privileges enjoyed in them and other allied subjects. Help and advice are given on tree planting, on the cleaning of wells and general sanitation, education, cottage industries, and the method of storing green grass in silo pits. Tree seedlings are also being supplied from nurseries specially prepared for the purpose. The Collector of Thana has recently placed Rs. 200 at the disposal of the Divisional Forest Officer, North Thana, for propagation of *kaju* trees. Advice was also given in the matter of repairing village approach roads and forest paths in the hilly tracts, a concrete result of which is that the people of Gholwad and Bordi in the Northern Circle undertook the construction of the Gholwad-Khunavda road partly by raising a popular contribution and partly with the aid of funds sanctioned by the District Local Board from the bonus fund. In E. D. Kanara an approach road was constructed by the villagers in a village in the Kirwatti Range and the villagers of another village promised to construct a similar road.

As a breeder of pedigree poultry for the last 15 years Mr. Sausman, Divisional Forest Officer, Panch Mahals, has undertaken poultry farm work for the Panch Mahals Sub-Division. One *Bhil* has been trained in Poona and it is proposed to train two more during the monsoon. The Divisional Forest Officer intends to take up an in-forest village and replace all country cocks in it by pedigree Rhode Island Red Cocks free of cost.

In Dahisar Range of the North Thana Division a grain depot was started in the Forest Settlement at Bahirpada. This depot is run exclusively by private funds contributed by the Range Forest Officer but now funds have been applied for from the Collector of Thana who has allotted a sum of Rs. 300 for maintaining this depot and for extension of the scheme in other forest settlements.

In some of the forest settlements in Dahisar and Sawa Ranges of the North Thana Division, and also in the West Khandesh Division a certain amount of work was done, and is still in progress, to push bunding as a remedy for erosion.

Rupees fifty were placed at the disposal of Mrs. Singh, wife of the Divisional Forest Officer, North Thana, by the Collector of Thana for purchasing wool and knitting needles to enable her to help poor girls to take to that work and thus to augment the meagre resources of their families. Several girls from a school at Narpada in Dahanu Taluka have been supplied with the articles and are being coached by Mrs. Singh.

In the Kolaba Division about 1,000 acres of land in clear felled coupes were given free of charge for *nagli* (Indian millet) and *varai* (Indian millet) cultivation to *Katkaris* and *Thakurs* under agri-silviculture terms.

In the West Khandesh Sub-Division two new schools were opened in inforest settlements and in some settlements where the supply of water is good model fruit gardens have been started.

In Telgeri village of Yellapur Taluka steps were taken to provide the villagers with better houses (with raised stone plinths on elevated places, mud walls and tiled roofing) in place of katcha huts. Plinths of two model houses were constructed at a cost of Rs. 100 allotted for the purpose by the Collector of Kanara.

The District Rural Development Board, Belgaum, has been given the right of collecting honey and wax from the forests of Khanapur and Nagargali Ranges for an average price of Rs. 480 for starting Bee Keeping at Nandgad.

A. C. HILEY,

Chief Conservator of Forests,

Province of Bombay.

PRESS NOTE ON THE FOREST ADMINISTRATION REPORT FOR THE YEAR 1940-41.

The changes caused by afforestations and disforestments during the year resulted in a decrease of 16 square miles in the total forest area, which was 12,920 square miles or 17 per cent. of the total land area. In the Belgaum Division, the policy of giving out land for cultivation on temporary leases is being followed wherever possible, but in the Gokak and Gujnal ranges of the same division where the hunger for land for cultivation is very great, the grazing position usually prevents such grants being made on a liberal scale. In the *ghat* portion of this division, where rice lands are generally deficient, the villagers are encouraged to take up land for permanent cultivation particularly for growing rice.

2. The total number of offences detected during the year records a decrease as compared with the previous year though the number of offences under "unauthorised grazing" shows an increase. No special reason can be assigned for this increase but it may possibly be ascribed to better patrolling of the forests by subordinates. Heavy trespass in closed coupes can be minimised only if the rule requiring a responsible herdsman to accompany the herds is strictly enforced.

3. The general question of erosion is receiving attention and in the Central Circle certain measures were taken such as exclusion from clear felling of steep hill slopes, cessation of giving out plots from evergreen forests on agri-silvicultural system, grant of full remission of assessment in forest settlements in cases where the plot holders carry out approved bunding schemes and undertaking the work of contour bunding and *nalla*-damming in felled coupes of the pasture felling series of Mr. Garland's South Tapri Working Plan in addition to the contour trenching experiments in arid areas already started.

4. The total area regenerated naturally as well as artificially was 67,990 acres. In addition plantations were raised under the agri-silvicultural system in East Nasik Division where the total area so treated is 4,990 acres, 367 acres were also given out on this system in the West Khandesh Sub-Division.

5. The experiments on the lines of the Italian Gradoni system started at the 6 centres mentioned in the last report were further extended. Contour trenching has undoubtedly produced beneficial results both in regard to increasing the moisture content of the soil and preventing erosion. There is also evidence that the fields immediately below the trenched areas are benefitting. The Gradoni system is likely to prove even more beneficial for the purpose of raising tree growth and obtaining a good fodder supply on the bare hills in the "famine tract", e.g., the eastern part of the Deccan.

6. Experiments on the same lines were started in the Panch Mahals and East Thana Divisions of the Northern Circle.

7. The quantity of forest produce removed by departmental agency was 1,329,000 cubic feet of timber, 893,000 cubic feet of fuel and Rs. 1,18,678 worth of sandalwood while that removed by contractors was 5,940,000 cubic feet of timber, 20,111,000 cubic feet of fuel valued at Rs. 25,62,384 and Rs. 2,92,895 respectively and bamboos, grass and other produce valued at Rs. 3,45,252. The extraction of forest produce, it is estimated, provided employment for 7,990,922 labour units who earned Rs. 28,44,346. The conditions enjoining the payment of compulsory minimum wages by forest contractors to their labourers, which were introduced as an experimental measure in 1939-40 in the three Thana and Kolaba Divisions, were continued during the year. Though the contractors disliked these conditions, the labourers have been benefitted to some extent as they are beginning to learn what wages they should receive for their labour. A special officer has since been appointed by Government for the protection of *katharis* (hill tribe) and it is hoped matters will improve still further. These wage conditions were extended during the year to the richer coupes of Navapur, Nandurbar and Taloda Ranges of the West Khandesh district and the results are being watched.

8. The following additional privileges and concessions were granted to the people during the year. The concession of giving one *tali* palm tree per adult and $\frac{1}{2}$ palm tree per child under 12 free of charge up to a limit of 1,800 per year was granted in 1938 to poor people, of Honawar, Bhatkal and part of Kumta talukas. Government has now ordered that *tali* leaves and seed should also be granted free to poor people. The practice of free removal of grass in cart-loads is to continue wherever it exists but is limited to one cart-load per head of cattle owned and the removal by carts restricted to recognised cart tracks in areas where plantations are being raised and in areas closed. This concession with these restrictions has also been conceded to privilege holders in certain parts of the Northern and Southern Circles where its removal by head-loads was permissible. Fees for *bamboos* removed from Navapur, Chinchpada, Nandurbar and Taloda ranges of the West Khandesh Division have been reduced in the case of persons producing a certificate from the village officers that they are required for *bona fide* agricultural and domestic purposes. In Kanara the concession of cutting and removing reserved trees except teak, blackwood and sandalwood in strips with a view to covering the cost of clearance is to be decided by the Collector of Kanara in each individual case on its merits. The villagers of forest villages in East and West Khandesh districts are permitted to collect and remove bones from forests on free permits on condition that they are required for *bona fide* agricultural purposes. Droppings of animals in the forest of Kanara are not to be sold but allowed to be removed by the people free for agricultural purposes.

9. 104,000 cubic feet of timber valued at Rs. 22,298 and 24,933,000 cubic feet of firewood valued at Rs. 4,29,892 and minor forest produce

worth Rs. 22,59,949 were removed by right and privilege holders while free grants of 135,000 cubic feet of timber valued at Rs. 70,627 ; 386,000 cubic feet of fuel valued at Rs. 7,749 and minor forest produce valued at Rs. 81,976 were given in deserving cases.

10. Prompt measures were taken to help the people who suffered from the cyclone of October 1940 by giving them free grants of timber and bamboos for repairing their boats, houses and gardens. The total value of timber and bamboos granted free in the three Thana divisions amounted to Rs. 34,770 and Rs. 4,656 respectively. A similar grant amounting to Rs. 1,575 was given for the same purpose in the Kolaba Division. Under Government orders a free grant of teak timber from Kodibag depôt in the Kanara Western Division was sanctioned to some fishermen who similarly suffered from the cyclone but the grantees could not remove the material in time. They were therefore allowed to remove the material granted to them after the rains, i.e., in November 1941.

11. The policy of assisting deserving industries with concessions and of encouraging the opening up of new industries was continued as follows :—

(a) The District Rural Development Board, Belgaum, was granted the right of collecting honey, wax from the forests of the Khanapur and Nagargali ranges in the Belgaum Division for an average price of Rs. 480 to help in starting the bee-keeping industry at Nandgad.

(b) The purpose for which the Bharat Wood Distillation Factory in the Belgaum Division was started has not yet been achieved and it is still not in production. The whole position is now under enquiry.

(c) The concession of purchasing sandalwood at 25 per cent. of the market rate granted to the sandalwood carvers of Honawar has been extended to certain sandalwood carvers at Surat and an annual subsidy of Rs. 562-8-0 for three years is sanctioned by Government to the Industries Department for the purpose.

(d) The Forest Engineer continued his experiments with charcoal gas producers. He visited Messrs. Simpsons, Madras, and being satisfied with the performance of their charcoal gas producer, purchased the latest type of the plant for Rs. 1,481. This was fitted to a 1941 Chevrolet chassis owned by Messrs. The Karnatak Express Motor Services, Belgaum. The Forest Engineer accompanied by several interested people, e.g., bus owners, tested the plant with a timed climb up the Bagewadi ghat on the Belgaum-Dharwar Road. The demonstration was satisfactory and the bus is now running between Belgaum and Dharwar.

(e) The Budge Budge Jute Mills, Calcutta, carried out the tests with picking stick arma prepared from *dhaman* wood and sent for trial to them by the Forest Engineer. These experiments indicate that unseasoned *dhaman* sticks compare very favourably with ordinary English "ash" sticks as they have been working 3,050 hours and the average life of ordinary "ash" sticks is reckoned as 3,000 hours. The

potentialities of our stick compared with "ash" appear to be very real and *dhaman* particularly appears to be excellent.

12. The financial results of the year as compared with those of the previous year show that the revenue rose from Rs. 38,61 thousands to Rs. 44,54 thousands and the surplus from Rs. 12,31 thousands to Rs. 16,45 thousands. Similarly the expenditure rose from Rs. 26,30 thousands to Rs. 28,09 thousands. The increase in revenue is due to various causes, the chief of which being the supply of timber and bamboos for war purposes, good prices for forest, *malki* and *gurcharan* coupes, sale of cyclone damaged trees in Thana divisions and higher earnings from the Alnavar-Dandeli Railway. The rise in expenditure is chiefly due to the various departmental works undertaken for the extraction of material to meet the demands of the Supply Department, marking for sale of a very large number of cyclone damaged trees all over the forests in the Thana divisions and sawing up a larger number of sleepers for supply to the M. & S. M. Railway in 1941-42.

13. A noteworthy feature of the year was the active association of the Forest Department with war efforts. Extensive departmental operations had to be undertaken to meet the requirements of the Defence Department in logs, poles and sawn material, the value of which amounted to Rs. 3,61,110. A good deal of organization was necessary for arranging the supplies and the material had to be inspected and passed by the officers of this department prior to its despatch. The Department had also to undertake inspection and passing of material, e.g., sawn timber, *bollies*, tent pins, etc., supplied by contractors and also to arrange for the creosoting of *bollies* at Bombay.

14. Another outstanding event of the year was the havoc played by the cyclone of 16th October 1940. The most severe and destructive effects were felt in the coastal divisions of the Northern Circle, especially in North and West Thana division. The devastation caused was appalling. Many people including fishermen and others lost their lives, some houses and gardens were damaged and the forests in the coastal belt suffered seriously. It is estimated that over 3 million trees were uprooted or broken in the North Thana Division and about 2 *laks* in West Thana. It is reported that the only cyclone comparable within living memory was that of 1903, but it is believed that that one was not so severe and destructive as this one of 1940. The forest stand is so depleted that certain deviations from the prescriptions of the working plan must necessarily be made for the next few years particularly in the North Thana Division.

The department had to face immediately the following two problems in consequence of the cyclone :—

(i) Supply of free grants of timber for rebuilding houses, boats, *bamboos*, *bundhis* for supports for the betel vine, *karvi* for repairing *pan* (betel leaf) gardens and orchards and large sized timber for fishing stakes, masts and sail yards of boats.

(ii) Disposal of the large number of trees uprooted and broken.

The activities of the newly created Silvicultural and Utilization branches are being published in separate pamphlets compiled by each of the officers in charge of those branches.

Serial No.	Division or Sub-Division.	Locality where the work is done.	Contour trenching. (Running feet.)		Bunding work done. (Running feet.)		Area taken up.		Cost.		Cost per 100 (Running feet).	
			1939-40.	1940-41.	1939-40.	1940-41.	1939-40.	1940-41.	1939-40.	1940-41.	1939-40.	1940-41.
							Acres.	Acres.	Rs.	Rs.	Rs.	Rs.
1	East Nasik ..	Mohodari ..	4,575	6,110	1,466	1,150	10·0	10·0	301	355	6·6	5·8
		Bhawda ..	11,322	20,766	1,872	1,291	20·0	20·0	559	574	4·9	2·8
2	West Khandesh	Nagaon Bari	33,279	19,595	..	..	49·4	20·0	785	323	2·4	1·6
3	Poona ..	Bhanburda ..	6,413	..	..	..	7·0	..	234	..	3·6	..
		Khed ..	12,874	26,697	..	..	28·3	36·5	902	775	7·0	2·9
4	Satara ..	Chimangaon..	13,343	46,227	18·0	40·0	575	800	4·3	1·7
		Total ..	81,806	119,335	3,338	2,441	132·7	126·5	3,356	2,827	4·1	2·4
							259·2		6,183			

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Appendices

FORM NO. 51 (PART I).—Area of Reserved and

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1940	
			Acres	Equivalent in square miles
1	2	3	4	5
NORTHERN CIRCLE.				
Fanch Mahals	Broach and Fanch Mahals	Reserved	201,765	315
		Protected	.....	.....
North Thana ...	Thana ...	Reserved	226,463	354
	Do. ...	Protected	414	1
East Thana ...	Thana ...	Reserved	222,310	347
	Do. ...	Protected	.....	.....
West Thana ...	Nasik ...	Reserved	52,506	81
	Do. ...	Protected	.....	.....
East Nasik ...	Thana ...	Reserved	215,158	336
	Do. ...	Protected	7,793	12
West Nasik ...	Nasik ...	Reserved	435,865	681
	Do. ...	Protected	2,629	4
Surat Sub-Division	Nasik ...	Reserved	219,841	343
	Do. ...	Protected	56,150	88
Ahmednagar	Thana ...	Reserved	3,514	6
	Do. ...	Protected	1,792	3
Surat	Ahmednagar ...	Reserved	124,358	195
	Do. ...	Protected	6,656	10
Surat Sub-Division	Surat ...	Reserved	50,852	79
	Do. ...	Protected	.....	.....
Surat Sub-Division	Nasik ...	Reserved	13,755	21
	Do. ...	Protected	1,267	2
Total, Northern Circle		Reserved	1,767,457	2,761
		Protected	76,701	120
CENTRAL CIRCLE.				
East Khandesh	East Khandesh	Reserved	457,114	751
	Do.	Protected	.....	.....
West Khandesh	West Khandesh	Reserved	960,939	1,502
	Do.	Protected	.....	.....
West Khandesh Sub-Division.	West Khandesh	Reserved	.....	.....
	Do.	Protected	.....	.....

Protected Forests in charge of Forest Department, 1940-41.

Added during the year	Excluded or transferred to other lead	Area on 31st March 1941		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
				Sq. M.	Sq. M.	Sq. M.	
.....	201,785	315	315	.....	.....
.....	
.....	226,483	354	352	.....	.....	2
.....	414	1	1	.....	.....
4(a)	222,314	347	347	.....	.....
.....	
120	63,626	84	84	.....	.....
.....	
.....	215,158	336	336	.....	.....
.....	7,793	12	12	.....	.....
3d	{ 310 } { 469 (4) }	435,119	680	678	.....	.....	2
.....	2,629	4	4	.....	.....
.....	123	219,718	343	343	.....	.....
.....	56,150	88	88	.....	.....
.....	3,514	6	6	.....	.....
.....	1,792	3	3	.....	.....
.....	(b) 124,388	195	195	.....	.....
.....	(b) 7,655	10	10	.....	.....
.....	10,852	79	79	.....	.....
.....	
.....	13,755	21	21	.....	.....
.....	1,267	2	2	.....	.....
157	902	1,563,712	2,730	2,755	.....	.....	4
.....	76,701	120	120	.....	.....
.....	
.....	1,488	461,626	758	758	.....	.....
.....	
.....	(c) 537,463	463,477	709	709	.....	.....
.....	
507 462c	53	507,479	703	663	.....	.....	130
.....	

(a) Errors corrected.

(b) Includes an area of 1,165 acres submerged in Bhandardara Lake and of 188 acres used for roads which has been transferred to the Public Works Department, vide Commissioner, Central Divisions No. F.O.R.O. 2, dated 2nd September 1934.

(c) Area transferred from the West Khandesh division to the West Khandesh Sub-Division as per G. R., R. D., No. 3038/39, dated 10th February 1940.

FORM No. 51 (PART I)—Area of Reserved and

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1940	
			Acres	Equivalent in square miles
1	2	3	4	5
CENTRAL CIRCLE —contd.				
Poona	Poona	Reserved	235,442	368
	Do.	Protected	.....	.....
	Ahmednagar	Reserved	280	.....
	Do.	Protected	.....	.....
Kolaba	Kolaba	Reserved	279,281	436
	Do.	Protected	22,544	35
	Poona	Reserved	6,529	10
	Do.	Protected	.....	.....
	Ratnagiri	Reserved	2,028	4
	Do.	Protected	.....	.....
Satara Sub-Division	Satara	Reserved and Leased.	32,846	514
	Do.	Protected	657	1
Total, Central Circle		Reserved and Leased.	2,300,469	3,555
		Protected	23,201	36
SOUTHERN CIRCLE.				
Kanara, N. D.	Kanara	Reserved	335,086	524
Kanara, E. D.	Do.	Reserved	680,981	1,064
Kanara, W. D.	Kanara	Reserved	683,253	1,068
	Do.	Protected	2,366	4
Belgaum	Do.	Reserved	250,910	361
	Belgaum	Reserved	447,322	699
Dharwar-Bijapur Dn.	Do.	Protected	12	.....
	Dharwar	Reserved	161,159	252
	Bijapur	Reserved	155,283	242
	Total, Southern Circle.		Reserved	2,694,004	4,210
		Protected	2,378	4
Grand Total, Province of Bombay.		Reserved	6,761,930	10,566
		Protected	102,280	160

Protected Forests in charge of Forest Department, 1940-41—contd.

Added during the year	Excluded or transferred to other head	Area on 31st March 1941		Trip artite classification.			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
7	98	285,356	368	Sq. M. 250	Sq. M. 18	Sq. M.	
.....	
.....	.....	290	.....	.....	.....	.....
.....	
.....	2	279,279	436	417	15	4	
.....	28	22,513	35	35	.....	.....
.....	.....	6,529	10	10	.....	.....
.....	
.....	.....	2,028	4	4	.....	.....
.....	
.....	5	325,841	514	514	.....	.....
.....	.....	657	1	1	.....	.....
507,469	509,103	2,295,535	3,592	3,425	33	134	
.....	26	23,175	36	36	.....	.....
145(a)	48(b)	335,183	524	524	.....	.....
.....	52(b)	680,888	1,064	786	278	.....
.....	61(d)	683,186	1,067(e)	760	307	.....
.....	77(b)	.....	.....	.....	.....	.....
.....	.....	2,366	4	.....	4	.....
.....	24(b)	230,666	361	361	.....	.....
15(c)	918(b)	446,419	697	647	50	.....
.....	.....	12	.....	.....	.....	.....
25(e)	2(b)	161,225	252	244	.....	8	
43(e)	.....	.....	.....	.....	.....	.....
16(c)	96(b)	155,364	243(e)	202	38	3	
397	1,280	2,693,121	4,208	3,524	673	11	
.....	.....	2,378	4	.....	4	.....
508,023	511,285	6,758,668	10,560	5,705	706	149	
.....	26	102,254	160	156	4	.....

(a) Protected forest in charge of Revenue Department converted into Reserved forest and transferred to the control of Forest Department.

(b) Disforests under section 27 of Indian Forests Act.

(c) Area afforested under Section 20 of Indian Forests Act.

(d) Reserved forest in charge of Forest Department converted into protected forest and transferred to the control of Revenue Department.

(e) Errors corrected.

FORM NO. 51 (PART II).—Area of Reserved and

Division	Civil district or territory (separate figures should be given for each District)		Kind of Forest	Area on 1st April 1940	
				Acres	Equivalent in square miles
1	2	3	4	5	
NORTHERN CIRCLE.					
Panch Mahals	Broach and Panch Mahals.		Reserved	2,384	4
	Do.	do.	Protected	.....	.....
North Thana	Thana		Reserved	.....	.....
	Do.	...	Protected	86,098	134
East Thana	Thana		Reserved	.....	.....
	Do.	...	Protected	65,119	101
	Nasik	...	Reserved	273	
	Do.	...	Protected	.....	.....
West Thana	Thana		Reserved	.....	.....
	Do.	...	Protected	73,549	115
East Nasik	Nasik		Reserved	21,793	34
	Do.	...	Protected	.....	.....
	Nagar	...	Reserved	8,242	13
	Do.	...	Protected	.....	.....
West Nasik	Nasik		Reserved	7,863	12.6
	Do.	...	Protected	.....	.....
	Thana	...	Reserved	.....	.....
	Do.	...	Protected	45	1
Surat Sub-Division	Ahmednagar		Reserved	64,203	100
	Do.	...	Protected	.....	.....
	Surat	...	Reserved	8,103	13
Ahmedabad	Do.		Protected	.....	.....
	Total, Northern Circle		Reserved	1,21,405	189
			Protected	2,25,311	351

Protected Forests in charge of Revenue Department, 1946-41.

Added during the year	Excluded or transferred to other head	Area on 31st March 1941		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
				Sq. M.	Sq. M.	Sq. M.	
.....	.....	2,384	4	.....	4	.....
.....	
.....	
10 (a)	16	86,092	134	.....	134	.....
.....	
.....	8	{ 65,141 273 }	101	.....	101	.....
.....	
.....	
.....	20	79,629	115	.....	115	.....
.....	1,204	20,569	32	.....	32	.....
.....	
.....	.....	8,942	13	.....	13	.....
.....	
.....	67	7,796	12	.....	11	2	
.....	
.....	
.....	.....	445	1	1	.....	.....
.....	50	64,153	100	.....	100	.....
.....	
.....	.....	8,103	13	.....	.....	13	
.....	
.....	.....	8,634	13	.....	.....	13	
.....	
.....	1,321	1,20,174	187	.....	160	28	
10 (a)	44	2,25,207	351	1	350	.....

(a) Errors corrected.

FORM No. 51 (PART II).—Area of Reserved and

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1940	
			Acres	Equivalent in square miles
1	2	3	4	5
CENTRAL CIRCLE.				
East Khandesh	East Khandesh	Reserved	23,919	37
West Khandesh Division	West Khandesh	Reserved	81,172	128
West Khandesh Sub Division.	Do.	Reserved	.....	.....
Poona	Poona	Reserved	160,029	250
	Ahmednagar	Reserved	.....	.....
Kolaba	Kolaba	Reserved	8,488	13
	Do.	Protected	24,549	38
	Ratnagiri	Reserved	9,809	15
Satara	Satara	Reserved	118,661	186
Ahmednagar and Sholapur.	Ahmednagar and Sholapur.	Reserved	408,070	637
	Total, Central Circle	Reserved	510,148	1,266
		Protected	24,549	38
SOUTHERN CIRCLE.				
Kanara, N. D.	Kanara	Protected	2,566	4
Kanara, E. D.	Do.	Protected	115,022	181
Kanara, W. D.	Do.	Protected	8,569	13
	Do.	Reserved	6,564	10
Belgaum	Do.	Protected	3,994	7
	Belgaum	Reserved	949	2
Dharwar-Bijapur	Dharwar	Reserved	76,987	120
	Bijapur	Reserved	18,427	29
	Total, Southern Circle	Reserved	102,927	161
		Protected	131,151	205
	Grand Total, Province of Bombay.	Reserved	1,034,570	1,616
		Protected	380,941	594

Protected Forests in charge of Revenue Department, 1940-41—concl'd.

Added during the year	Excluded or transferred to other head	Area on 31st March 1941		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and Fodder reserves	
6	7	8	9	10	11	12	13
.....	15	23,904	37	Sq. M.	37	.....
.....	(a) 72,527	8,645	14	.....	14	.....
(a) 72,527	.....	72,527	114	.....	114	.....
.....	775	159,254	249	.....	249	.....
.....	
.....	.....	8,488	13	.....	13	.....
.....	5	24,544	38	.....	38	.....
.....	.....	9,809	15	.....	15	.....
.....	563	118,098	185	.....	181	4	
.....	3,444	404,626	632	.....	632	.....
72,527	77,324	805,351	1,259	.....	1,255	4	
.....	5	24,544	38	.....	38	.....
.....	(b) 145	2,421	4	.....	4	.....
(a) 61	(d) 3	116,081	181	.....	181	.....
.....	.....	8,569	13	.....	13	.....
.....	.....	6,564	10	.....	10	.....
.....	.....	3,994	7	.....	7	.....
(e) 40	.....	989	2	.....	2	.....
.....	(d) 473	76,514	119	.....	119	.....
.....	(d) 7	18,420	29	.....	29	.....
40	480	102,487	160	.....	160	.....
61	147	131,065	205	.....	205	.....
72,567	79,125	1,028,012	1,606	.....	1,575	31	
71	196	380,816	594	1	593	.....

(a) Area transferred from the west Khandesh Division to the West Khandesh Sub-Division as per Government Resolution, Revenue Department, No. 3038/39, dated 10th February 1940.

(b) Protected forest in charge of Revenue Department converted into Reserved forest and transferred to the control of Forest Department.

(c) Reserved Forest in charge of the Forest Department converted into Protected Forest and transferred to the control of Revenue Department.

(d) Areas disforested.

(e) Area afforested under S. 20 of Indian Forest Act.

FORM No. 53.—*Record of Demarcation*

Circle	Length of boundaries artificially demarcated during the year	Length of previously existing boundaries repaired	Length of previously existing boundaries not repaired	Total length of artificially marked boundaries at the close of the year	Length of boundaries still to be demarcated at the close of the year	Length of natural boundaries not requiring artificial marks
1	2	3	4	5	6	7
	Miles	Miles	Miles	Miles	Miles	Miles
Northern Circle	9,018	129	9,147	1	724
Central Circle	11,653	.....	11,653	.....	770
Southern Circle	1,404	12,924	14,328	26	457
Total, Bombay Province.	22,075	13,053	35,128	27	1,951

and Maintenance of Boundaries, 1940-41

Total length of boundaries at the close of the year	Expenditure on Demarcation during the year		Remarks
	On new work	On repairs	
8	9	10	11
Miles	Rs.	Rs.	Rs.
9,872	.....	1,833*	*1,801 B-V (a). 33 B-VIII.
			1,833
12,423	.....	697	Rs. 669 B-V (a). 28 B-VIII.
			697
14,811	.....	1,217*	Rs. *648 charged to B-V (a). 569 charged to B-VIII.
			1,217 Total.
37,106	.....	3,747	

FORM No. 55.—Progress made in Working

Division 1	Area under sanctioned Working Plans					Area Work 7
	At commencement of year 2	Added during year 3	Deducted during year 4	At close of year		
				Actual area 5	Percentage of total forest area (as shown in column 10) 6	
NORTHERN CIRCLE	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Per cent.	Sq. m.
<i>Reserved Forests in charge of the Forest Department.</i>						
Panch Mahals	311	...	...	311	99	4
North Thana	354	...	...	354	100	...
East Thana	431	...	...	431	100	...
West Thana	336	...	...	336	100	...
East Nasik	681	...	1	680	100	...
West Nasik	544	...	...	544	100	...
Surat Sub-Division	99	...	...	99	99	...
Total of Reserved Forests in charge of the Forest Department.	2,756	...	1	2,755	99	4
<i>Protected Forests in charge of the Forest Department.</i>						
North Thana	1	...	...	1	100	...
West Thana	9	...	...	9	75	...
East Nasik ... ..	...	...	...	...	...	...
West Nasik	91	...	...	91	90	...
Surat Sub-Division ... ..	...	...	...	...	.....	...
Total of Protected Forests in charge of the Forest Department.	101	...	...	101	84	...
<i>Protected Forests in charge of the Revenue Department.</i>						
North Thana ... ..	...	...	...	...	.....	134
East Thana ... ..	...	...	...	...	.....	101
West Thana ... ..	...	...	...	...	.....	115
Total of Protected Forests in charge of the Revenue Department.	...	...	...	...	.....	350
Total, Northern Circle ...	2,857	...	1	2,856	88	354

Plans during the year 1940-41.

not under ing Plans		Total forest area in Form No. 51, Part I and II (Total of columns 6, 7, 8 and 9)	Revision			Expenditure on Working Plans during the year	Remarks
Plans not under preparation			Due or required	In progress at end of year	Revised plans sanctioned during year		
Required at pre- sent	Not required at present	10	11	12	13	14	15
Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	
...	...	315	...	...	...	.....
...	...	354	...	8	...	.....
...	...	481	...	64	...	.....
...	...	336	...	...	...	.....
...	...	680	...	...	...	.....
...	...	544	...	157	...	.....
...	1	100	78	...	...	.....
...	1	2,760	78	279	...	.....
...	...	1	...	...	...	.....
...	3	12	...	...	...	.....
4	...	4	...	...	...	.....
...	10	101	...	...	...	.....
2	...	2	...	...	...	.....
6	13	120	...	...	...	.....
...	...	134	...	...	134	.....
...	...	101	...	...	101	.....
...	...	115	...	...	115	.....
...	...	350	...	...	350	.....
6	14	3,730	78	279	350	.....

FORM No. 55.—Progress made in Working

Division	Area under sanctioned Working Plans					Area Work Plans under preparation
	At commencement of year	Added during year	Deducted during year	At close of year		
				Actual area	Percentage of total forest area (as shown in column 10)	
1	2	3	4	5	6	7
CENTRAL CIRCLE						
<i>Reserved Forests</i>						
East Khandesh ...	760	...	3	757	99.9	...
West Khandesh ...	1,231	...	524 (c)	707	99.7	...
West Khandesh Sub-Division ...	...	524(c)	...	524	66.1	269(h)
Poona ...	368	...	...	368	100.0	...
Kolaba ...	434	...	...	434	96.4	...
Satara Sub-Division ...	493	...	...	493	100.0	...
Total ...	3,286	524	527	3,283	91.9	268
<i>Protected Forests</i>						
Kolaba ...	...	...	...	...	.....	...
Satara Sub-Division ...	1	...	...	1	100	...
Total ...	1	...	...	1	2.8	...
<i>Leased Forest</i>						
Satara Sub-Division ...	21	...	...	21	100	...
Total, Central Circle ...	3,308	524	527	3,305	91.1	268
SOUTHERN CIRCLE						
Kanara, Northern Division ...	345	...	...(a)	345	66	...
Do, Eastern do. ...	409	...	...(a)	409	38	509(c)
Do, Western do. ...	407	...	...(a)	407	38	...
Belgaum do. ...	421	...(a)	...(a)	421	40	...
Dharwar-Bijapur do. ...	431 +19(e)	...	1(b)	430 +19(e)	87	...
Total, Southern Circle ...	2,013 +19(e)	...	1	2,012 +19(e)	48	500
Grand Total, Province of Bombay.	8,197	524	529	8,192	73.8	1,131

Plans during the year 1940-41—concl'd.

not under log Plans		Total forest area in Form No. 51, Parts I and II (Total of columns 5, 7, 8 and 9)	Revision			Expenditure on Working Plans during the year	Remarks
Plans not under preparation			Due or required	In progress at end of year	Revised Plans sanctioned during year		
Required at 8 present	Not required at 9 present							11	12	13
Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	15
...	1(a)	768	...	...	410(b)	.....	(a) Afforested area in Scrub jungles.
...	2(d)	709	...	232(e)	388(b)	.....	(b) Certain modification to the Satpuda Working Plan have been sanctioned by the chief conservator of Forests, Bombay Province.
...	1(f)	733	...	119(g)	405(b)	.....	(c) Areas transferred to West Khandesh Sub-Division as under—
...	...	368	...	...	...	.....	405 Shirpur Ranges.
...	16(i)	450	...	...	...	.....	107 Dhulia, Pimpalner, Anjan Working Plan.
...	...	493	...	...	...	.....	12, Part of Umarpata Working Plan.
...	20	3,571	...	351	1,233	.....	534
...	...	...	...	...	...	.....	(d) Areas afforested in Taloda Range.
...	35	35	...	...	...	.....	(e) 171 Nawapur-Nandurbar Working Plan.
...	...	1	...	...	...	.....	52 Deomogra Working Plan.
...	...	...	...	...	...	.....	9 Umarpata part.
...	35	36	...	...	...	.....	232
...	...	...	...	...	...	.....	(f) Area afforested in Shirpur Ranges.
...	...	21	...	...	...	.....	(g) 107 Dhulia-Pimpalner-Anjan Working Plan.
...	...	...	...	...	...	.....	12 Umarpata, Part.
...	65	3,628	...	351	1,203	31*	119
...	...	...	...	...	...	.....	(h) Sakri, Pimpalner and Dhulia Scrub.
...	179	524	35(d)	...	...	.....	(i) Area taken over from Revenue Department.
146	...	1,064	57	16	...	3,914	*This expenditure was incurred by the Divisional Forest Officer, Working Plans, N. C. & C. C. and pertains to Northern Circle.
...	664	1,071	69	28	...	.....	(a) The areas excluded from and included in the Sanctioned Working plans as per Chief Conservator's No. 37/4101 of 17th December 1940 have been taken into account only when they are $\frac{1}{2}$ square mile or more in the case of each Division.
94	543	1,058	47(d)	351	...	238	
...	65	495 +19(e)	350(d)	...	...	.....
240	1,451	4,212 +15(e)	548	395	...	4,152	
246	1,520	11,089	626	1,025	1,553	4,183	

(b) Exclusion sanctioned in Chief Conservator's Nos. 37,4101 and 37,3552 dated 17th December 1940 and 15th November 1940 respectively.

(c) Sandal bearing area in Sirsi Siddapur Range taken up for enumeration of sandalwood trees for the purpose of framing a working plan.

(d) These areas were shown in column 12 in previous years' forms. The justification for transferring them back to column 11 is that no effective progress has been made in revising any of these plans. Any field work done in the past is now so out of date as to be completely useless since no whole time working plan officer has been appointed for any length of time. All work on revision of these plans is therefore to be started again and a start has accordingly been made by Mr. Garland after his appointment as Working Plans Officer.

(e) In charge of Revenue Department but included in Sandalwood working plan for working

FORM No. 56.—Statement showing Communications

Circle	New works				
	Buildings				
	Expenditure on				Total expenditure incurred
	Head quarter houses	Rest houses	Houses for subordinate establishment	Others	
1	2(a)	2(b)	2(c)	2(d)	3
	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle	511	1,995	117	3,623
Central Circle	6,916	.....	.....	6,916
Southern Circle	140	1,339	4,466	5,945
Forest Engineering Division
Total, Bombay Province	7,567	3,334	4,863	15,384

and Buildings during the year 1940-41.

undertaken during the year

Roads and paths						Other works		Total expenditure on new works	
Cart roads		Bridle paths		Others		Total length of paths or roads	Total expenditure incurred		Expenditure incurred
Length	Cost	Length	Cost	Length	Cost			5		6	7	8
4(a)	4(b)	4(c)	4(d)	4(e)	4(f)	5	6	7	8
M. F.	Rs.	Miles	Rs.	Miles	Rs.	M. F.	Rs.	Rs.	Rs.
.....	376	...	...	...	...	.....	376	665	3,564
.....	...	...	...	...	...	.....	...	333	7,249
.....	12,287	...	...	...	255	.....	12,537	1,254	19,636
.....
.....	12,658	...	...	...	255	.....	12,913	2,152	30,449

FORM No. 56.—Statement showing Communications

Circle	Buildings				Repairs
	Expenditure on				Total expenditure incurred
	Head quarter houses	Rest houses	Houses for subordinate establishment	Others	
	9(a)	9(b)	9(c)	9(d)		10
	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle ...	961	1,464	5,224	180	7,829
Central Circle ...	.....	2,070	2,078	72	4,220
Southern Circle ...	923	2,179	3,391	157	7,150
Forest Engineering Division ...	.....	.....	18	.. ..	18
Total, Bombay Province ...	1,884	5,713	11,211	409	19,217

and Buildings during the year 1940-41—contd.

executed during the year										Remarks
Roads and paths								Other works	Total expenditure incurred	
Cart roads		Bridle paths		Others		Total length of paths or roads	Total expenditure incurred	Expenditure incurred		
Length	Cost	Length	Cost	Length	Cost				13		13	14	15
11(a)	11(b)	11(c)	11(d)	11(e)	11(f)	13	13	14	15	16
Miles	Rs.	Miles	Rs.	Miles	Rs.	Miles	Rs.	Rs.	Rs.	
308	12,146	...	...	...	...	308	12,146	294	20,269	
415	8,313	100	850	21	88	536	9,251	79	13,550	
861	26,419	...	...	19	40,300	880	66,800	2,676	76,635	
...	...	...	...	...	...	...	...	83	101	
1,084	46,878	100	850	40	40,478	1,224	88,206	3,132	1,10,555	

FORM No. 58.—*Area of Forest Tracts protected from fire during 1940-41.*

Division I	Area in square miles		Percentage of forests under fire protection to total area of reserves	Percentage of failures to area attempted		Remarks 7
	Attempted 2	Protected 3		Average of past 5 years 5	During the year 6	
NORTHERN CIRCLE.						
Panch Mahals ...	315	302	100	10.7	4.1	
North Tharda ...	355	346	100	4.3	2.8	
East do. ...	431	404	100	6.1	6.2	
West do. ...	348	331	100	4.4	5.0	
East. Nakh ...	684	683	100	0.4	0.1	
West do. ...	645	583	100	1.5	0.9	
Surat Sub-Division ...	102	102	100	1.4	.....
Total, Northern Circle.	2,580	2,806	100	3.8	2.0	
CENTRAL CIRCLE.						
East Khandesh ...	758	670	100	12.7	18.3	
West do. ...	1,502	1,275	100	12.0	15.1	
West Khandesh Sub-Division.						
Poona ...	388	381	100	3.2	1.9	
Kolaba ...	485	48	100	1.4	1.0	
Satara Sub-Division...	515	513	100	.8	.3	
Total, Central Circle.	3,628	3,548	100	8.1	10.4	
SOUTHERN CIRCLE.						
Kanara, N. D. ...	38	38	7	4.9	.....
Do. E. D. ...	158	158	15	4.1	1.9	
Do. W. D. ...	30	58	6	2.8	3.3	
Bekausa Division ...	111	106	19	4.6	4.5	
Dhara War-Bijapur Division.	494	489	100	2.2	1.1	
Total, Southern Circle.	851	846	20.4	3.1	1.7	
Grand Total, Province of Bombay ...	7,569	6,900	69.3	5.0	5.3	

FORM No. 59.—*Causes of Forest fires during 1940-41.*

FORM No. 59.—Causes of

Division 1	Fires originating in departmental fire conservancy operations		External fires crossing the fire braces	
	No. of fires 2	Area burnt acres 3	No. of fires 4	Area burnt acres 5
NORTHERN CIRCLE.				
Panch Mahala ... ..	.....	.....	1	3
North Thana ... ..	.....	.....	.....	.....
East do.	1	20	.....	.....
West do. ... ..	.....	.....	3	46
East Nasik ... ..	.....	.....	.....	.....
West do. ... ..	.....	.....	.....	.....
Surat Sub-Division	1	3	.....	.....
Total, Northern Circle ...	2	23	4	49
CENTRAL CIRCLE.				
East Khandesh ... ..	.....	.....	4	2,780
West Khandesh Division	5	179	11	11,470
West Khandesh Sub-Division	1	3	3	2,800
Poona	6	134	14	452
Kolaba ... ..	.....	.....	5	202
Satara ... ..	.....	.....	6	14
Total, Central Circle ...	12	309	43	17,218
SOUTHERN CIRCLE.				
Kanara, N. D. ... ..	.....	.....	.....	.....
Do. E. D. ... ..	.....	.....	.....	.....
Do. W. D. ... ..	.....	.....	.....	.....
Belgaum Division ... ..	.....	.....	.....	.....
Dharwar-Bijapur Division ... ..	.....	.....	7	1,305
Total, Southern Circle ...	.....	.....	7	1,305
Grand Total, Province of Bombay ...	14	332	51	18,572

Forest Fires during 1940-41.

Fires beginning inside the reserved or fire-braced areas				Fires due to causes unknown		Total	
Owing to carelessness of outsiders or due to accident		Owing to intentional or malicious firing					
No. of fires	Area burnt acres	No. of fires	Area burnt acres	No. of fires	Area burnt acres	No. of fires	Area burnt acres
6	7	8	9	10	11	12	13
61	3,015	24	1,122	65	4,160	151	8,300
6	34	.....	.....	118	6,284	124	6,318
12	747	.....	.....	138	16,295	151	17,062
2	41	.....	.....	121	11,141	126	11,228
4	55	.....	.....	90	448	24	563
21	792	1	18	50	3,262	72	4,062
2	51	.....	.....	.....	.....	3	54
108	4,725	25	1,140	513	41,590	651	47,527
84	53,603	.....	.....	14	3,537	102	89,920
28	15,877	8	873	29	42,187	75	70,579
5	1,910	.....	.....	129	71,118	138	75,331
38	2,283	5	14	32	2,259	95	5,142
25	1,140	.....	.....	78	2,033	108	3,375
46	838	1	2	17	258	70	1,112
290	105,651	14	890	299	121,392	588	245,459
2	925	.....	.....	20	4,153	22	5,078
4	479	.....	.....	20	2,128	24*	2,607
6	190	3	154	31	1,049	40	1,393
57	5,622	.....	.....	.....	.....	57	5,622
11	835	.....	.....	16	1,458	34	3,588
80	8,051	3	154	87	8,788	177	18,293
408	118,427	42	2,183	698	171,770	1,416	311,234

* Includes 1 forest fire which occurred in a contract area and was dealt with under the terms of the agreement and not as a breach of Forest Rules.

Columns 6 and 7—By carelessness of workmen employed by purchasers etc. or by accident due to railway engine, lightning, fire balloons.

Columns 8 and 9—Intentional firing in order to obtain new grass or turn out game or reduce cover or malicious firing.

FORM No. 60.—Area closed and open to grazing during 1940-41.

Division	Area closed to grazing of all animals throughout the year		Area open to grazing throughout the year		Balance, i.e. area open to grazing for a part of the year (and therefore closed for the remainder)		Total
	1	2	3	4	5	6		7
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.
NORTHERN CIRCLE.							
Panch Mahals	57	...	243	19	...	...	319
North Thana	39	136	313	...	...	1	439
East do.	36	102	394	...	...	...	532
West do.	17	115	331	...	...	...	463
East Nasik	54	264	382	29	...	...	729
West do.	40	226	481*	9	...	...	756
Ahmedabad ... ..	...	13	...	...	...	...	13
Surat Sub-Division ...	30	15	70	...	...	...	115
Total, Northern Circle ...	373	871	2,314	57	1	...	3,416
CENTRAL CIRCLE.							
East Khandesh	180	37	407	...	...	171	795
West Khandesh Division ...	95	14	614	...	...	...	723
West Khandesh Sub-Division ...	108	114	647	...	...	38	907
Poona	43	350	290	...	...	34	617
Kolaba	28	102	417	...	...	4	551
Satara Sub-Division	27	185	470	...	...	18	700
Ahmednagar and Sholapur ...	...	632	...	...	...	...	632
Total, Central Circle ...	491	1,334	2,847	...	...	265	4,925
SOUTHERN CIRCLE.							
Kanara, N. D.	41	4	483	...	...	...	528
Do. E. D.	51	1,194	...	...	...	...	1,245
Do. W. D.	10	1,084	...	...	...	...	1,094
Belgaum Division	100	9	358	...	...	...	1,067
Dharwar-Bijapur Division ...	43	109	421	...	...	...	613
Total, Southern Circle ...	245	2,400	1,872	...	...	...	4,577
Grand Total, Province of Bombay ...	999	4,655	6,931	57	265	...	12,918

* This is exclusive of 2 square miles of area submerged in the Bhandardara Lake and used for P. W. D. Roads.

FORM No. 61.—*Return of Grazing in the State Forests
during 1940-41.*

FORM No. 61.—Return of Grazing in

Division	Grazing					
	At Full Rates					
	Buffaloes	Cows and Bulls	Goats and Sheep	Camels	Other animals	Fees received
1	2	3	4	5	6	7
NORTHERN CIRCLE	No.	No.	No.	No.	No.	Rs.
<i>Reserved and Protected Forests</i>						
Panch Mahals ...	243	316	.....	.....	26	586
North Thana ...	.....	.....	.....	.....	.....	.....
East do. ...	.....	8	.....	.....	.....	8
West do. ...	.....	.....	.....	.....	.....	.....
East Nasik ...	.....	130	668	.....	22	319
West do. ...	2	3	.....	.....	.....	5
Surat Sub-Division ...	.....	.....	.....	.....	.....	.....
Total, Northern Circle...	245	457	668	.....	48	917
CENTRAL CIRCLE						
East Khandesh ...	129	1,231	.....	.....	9	1,362
West do. ...	7	554	.....	.....	.....	561
West Khandesh Sub-Division,	826	3,994	.....	.....	118	4,938
Poona ...	19	72	.....	.....	.....	91
Kolaba ...	1	.....	.....	.....	.....	1
Batara Sub-Division ...	.....	93	676	.....	.....	192
Total ...	982	5,874	676	.....	130	7,145

the State Forests during 1940-41.

on payment						
At Privileged Rates						
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Fees received	
					Actual	Value at full rates
8	9	10	11	12	13	14
No.	No.	No.	No.	No.	Rs.	Rs.
939	4,383	6,831	.....	95	1,400	7,195
132	356	.....	.....	.....	244	488
.....
.....
555	670	1,126	.....	15	910	1,522
.....
.....
1,627	5,409	7,357	.....	110	2,554	9,135
.....
.....
19	80	.....	.....	5	52	104
.....
.....	139	214	.....	.....	123	243
.....	3	.....	.....	.....	2	3
.....
.....	22	.....	.....	.....	22	22
.....
19	294	214	.....	5	199	372

FORM No. 61.—Return of Grazing in

Division	Grazing					
	By right under Settlement					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates
1	15	16	17	18	19	20
	No.	No.	No.	No.	No.	Rs.
<i>Reserved and Protected Forests</i>						
Panch Mahals
North Thane
East do.
West do.
East Nasik
West do.
Surat Sub-Division
Total, Northern Circle...
CENTRAL CIRCLE						
East Khandesh
West do.
West Khandesh Sub-Division.
Poona
Kolaba ...	360	1,141	.....	.....	.....	1,521
Balsara Sub-Division ...	14	40	.....	.....	.....	54
Total ...	394	1,181	.....	.....	.....	1,575

the State Forests during 1940-41—contd.

free							Grand Total of value at full rates
During pleasure of Government or otherwise than under Settlement						Total value of fees at full rates, col. 20 + col. 26	
Buffaloes	Cows and Ballocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates		
21	22	23	24	25	26	27	28
No.	No.	No.	No.	No.	Rs.	Rs.	Rs.
163	473	.....	.....	.....	635	635	8,346
18,499	81,825	.....	.....	.....	1,00,324	1,00,324	1,00,812
12,663	102,118	.....	.....	.....	1,64,786	1,64,786	1,64,794
22,171	78,909	867	.....	610	1,01,907	1,01,907	1,01,907
13,670	97,724	92,998	.....	615	1,36,458	1,36,458	1,36,299
12,832	109,516	7,372	.....	298	1,24,489	1,24,489	1,24,494
2,902	17,522	.....	.....	.....	20,424	20,424	20,424
132,600	468,092	101,297	.....	1,723	6,49,024	6,49,024	6,59,076
25,997	127,408	.....	.....	1,593	1,51,993*	1,51,993	1,53,459
7,031	74,910	.....	.....	438	82,379	82,379	82,940
9,298	64,806	16,186	.....	1,022	79,173	79,173	84,354
9,539	81,024	20,944	.....	1,233	1,07,032	1,07,032	1,07,126
18,059	43,883	60	.....	9	61,913*	63,434	63,435
13,470	26,807	17,823	.....	30	54,762*	54,817	55,031
80,394	438,788	65,003	.....	4,325	5,27,253	5,38,828	5,46,345

* The information being not supplied by the Village officers, Total refund of grazing fee was
 last year's figures have been taken. } Rs. 50.

FORM NO. 61.—Return of Grazing in

Division	Grazing					
	At Full Rates					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Cannels	Other animals	Fees received
1	2	3	4	5	6	7
SOUTHERN CIRCLE.	No.	No.	No.	No.	No.	Rs.
Kanara N. D. ...	.....	.....	.....	.....	.....	.....
Do. E. D. ...	.....	.....	.....	.....	.....	.....
Do. W. D. ...	.....	.....	.....	.....	.....	.....
Belgaum ...	61	160	.....	.....	.....	211
Dharwar-Bijapur ...	14	32	.....	.....	.....	46
Total, Southern Circle...	65	192	.....	.....	.....	257
Grand Total, Province of Bombay.	1,292	6,523	1,344	.....	168	8,319

the State Forests during 1940-41—contd.

on payment

At Privileged Rates						
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Fees received	
					Actual	Value at full rates
8	9	10	11	12	13	14
No.	No.	No.	No.	No.	Rs.	Rs.
.....
.....
.....
.....
.....
.....
.....
1,646	5,703	8,171	.....	115	2,753	9,507

FORM No. 61.—Return of Grazing in

Division	By right under Settlement					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates
	15	16	17	18	19	20
SOUTHERN CIRCLE.	No.	No.	No.	No.	No.	Rs.
Kanara N. D.	.....	.....	.....	.....	.....	.....
Do. E. D.	.....	.....	.....	.....	.....	.....
Do. W. D.	.....	.....	.....	.....	.....	.....
Belgaum	.....	.....	.....	.....	.....	.....
Dharwar-Bijapur	.....	.....	.....	.....	.....	.....
Total, Southern Circle...	.....	.....	.....	.....	.....	.....
Grand Total, Province of Bombay.	394	1,181	.....	.....	.....	1,572

the State Forests during 1940-41—concl'd.

free							Grand Total of value at full rates
During pleasure of Government or otherwise than under Settlement						Total value of fees at full rates. col. 20 + col. 26	
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates		
21	22	23	24	25	26	27	28
No.	No.	No.	No.	No.	Rs.	Rs.	Rs.
4,956	20,750	50	.....	2	25,758	25,758	25,758
14,142	67,730	1,634	.....	33	83,594	83,594	83,594
27,900	57,181	537	.....	.....	85,618	85,618	85,618
50,538	17,425	14,430	.....	2	92,856	92,855	93,086
92,004	28,254	63,029	.....	.....	1,83,317	1,83,317	1,83,363
189,940	201,370	79,790	.....	42	4,71,142	4,71,142	4,71,399
403,234	1,128,245	236,030	.....	6,090	16,57,419	16,58,994	16,76,820

FORM No. 63.—*Outturn (in thousand cubic feet, solid) of Timber*

Circle	Timber					
	Government	Purchasers	Free Grantees	Right and privilege holders	Total	Government
1	2	3	4	5	6	7
<i>Reserved Forests.</i>	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.
Northern Circle	330	2,046	33	...	2,411	405
<i>Protected Forests.</i>						
Northern Circle	1	457	43	...	506	...
<i>Unclassed Forests.</i>						
Northern Circle ... ..	...	542	3	...	545	...
Total, Northern Circle ...	331	3,047	84	...	3,462	405
Central Circle	119	1,095	21	...	1,235	487
<i>Reserved Forests.</i>						
Southern Circle	879 Sandal-wood as shown in columns 13 to 17.	1,798	20	104	2,811 Sandal-wood as shown in columns 13 to 17.	1
<i>Protected Forests.</i>						
Southern Circle ... ..	...	...	...	...	...	...
<i>Unclassed Forests.</i>						
Southern Circle ... ..	...	...	...	...	...	...
Total, Southern Circle ...	879	1,798	30	104	2,811	1
Grand Total, Province of Bombay ...	1,329	5,940	135	104	7,508	693

and Fuel during the year 1940-41 and Agency of Exploitation.

Fuel				Total Output							Remarks
Purchasers	Free Grantees	Right and privilege holders	Total	Timber and fuel	Sandalwood		Rejected Sandalwood				
					Billets, roots, etc.		Trees, billets, branches, roots, chips, etc.				
					Scented	Unscented.	Number.	C.ft.	Cartloads Numbers.		
8	9	10	11	12	13	14	15	16	17	18	
c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	T. C. Q. lbs.	T.C.Q.lbs.					
8,894	...	10,614	19,513	22,324	.....	...	...	...	...	...
856	...	408	1,266	1,772	.....	...	...	...	...	...
340	...	...	340	885	.....	...	...	...	...	...
10,092	...	11,092	21,519	24,981	.....	...	...	...	...	...
4,844	386	6,489	12,156	13,391	0 0 0 5	...	(a) 18	...	...	...
5,175	...	7,472	12,648	15,459	203 6 3 9	8 11 1 16	(a) 881 (b) 6,753 (c) 8,634	(c) 3,995	(b) 17 (c) 3 (d) 526	(a) Trees. (b) Branches and pieces, (c) Bachichalav and Kodlichalav, (d) Chips (e) Roots and stumps;	
...	
...	
5,175	...	7,472	12,648	15,459	203 6 3 9	8 11 1 16	(a) 881 (b) 6,753 (c) 8,634	(c) 3,995	(b) 17 (c) 3 (d) 526		
20,111	386	24,933	46,323	53,831	203 6 3 14	8 11 1 16	(a) 899 (b) 6,753 (c) 8,634	(c) 3,995	(b) 17 (c) 3 (d) 526		

FORM No. 64.—*Outputs of Minor Forest Produce*
for the year 1940-41.

Description of produce	PRODUCE REMOVED OR UTILIZED								Total
	By Govt. agency	By purchasers	By free-keepers	By right holders	Quantity	Value	Quantity	Value	
NORTHERN CIRCLE									
<i>Reserved Forests.</i>									
Bamboos ...	Rs. 33	Rs. 10,942	Rs. 6,172*	Rs. 64,527	...	81,654	...	10,13,002	...
Grass and grazing	Rs. 66,600	...	Rs. 9,57,023	...	15,828	...	1,50,870	...
Apple—Temburuli leaves...	...	Rs. 13,917	...	Rs. 3,051	...	21,809	...	2,000	...
Karvi	Rs. 1,201	...	Rs. 20,108	...	9,767	...	1,50,870	...
Moho flowers	Rs. 2,389	...	...	...	1,244	...	1,244	...
Stones and sand	Rs. 944	Rs. 1,244	...	...	1,244	...	1,244	...
Hirda ...	Rs. 1,008	Rs. 1,442	...	Rs. 10,368	...	2,297	...	2,297	...
Babal sticks	Rs. 661	...	...	...	163	...	163	...
Gum	Rs. 2,582	...	...	...	2,582	...	2,582	...
Teravad	Rs. 581	...	...	...	581	...	581	...
Booba Grass	17,101	...	17,101	...
Thorns	Rs. 2,301	...	...	...	2,301	...	2,301	...
Magnese Ore	Rs. 1,428	...	...	...	1,428	...	1,428	...
Dry leaves	Rs. 1,602	...	...	...	1,602	...	1,602	...
Anjan leaves	Rs. 1,290	...	...	...	1,290	...	1,290	...
Mahoti	Rs. 2,706	Rs. 419	...	...	34,398	...	37,070	...
Miscellaneous	Rs. 98	...	...	...	...	...	...	...
Total ...	Rs. 1,059	Rs. 99,885	Rs. 7,835	Rs. 11,07,038	...	12,33,797	...	12,33,797	...
Protected Forests.									
Bamboos	Rs. 11,064	...	21,864	...	21,864	...
Karvi	Rs. 4,198	...	4,198	...	4,198	...
Thorns	Rs. 1,427	...	1,427	...	1,427	...
Grass and grazing	Rs. 1,59,470	...	1,59,470	...	1,59,470	...
Stones and sand	Rs. 2,000	...	2,000	...	2,000	...
Miscellaneous	Rs. 697	...	Rs. 9,070	...	9,070	...	9,070	...
Total	Rs. 697	...	Rs. 1,87,324	...	1,87,324	...	1,87,324	...
Total, Northern Circle, ...	Rs. 1,059	Rs. 1,00,582	Rs. 7,835	Rs. 12,94,462	...	14,08,718	...	14,08,718	...

* Relief forurdone in 1940.

† The stones were removed by the P. W. D. and Local Boards from the following Divisions:—

Name.	Amount.
East Thana	Rs. 800
Waste Nank	Rs. 341
	Rs. 1,244

FORM No. 64.—*Outturn of Minor Forest Produce for the year 1940-41—contd.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Govern- ment agency		By purchasers		By free- grants		By right holders		Quantity	Value
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value		
CENTRAL CIRCLE		Rs.		Rs.		Rs.		Rs.		Rs.
<i>Reserved Forests</i>										
Bamboos				12,758		147				12,905
Grass and Grazing				94,054		58		2,98,553		3,90,665
Tarwad bark				610						610
Apta-Temburni leaves.				4,715				5,513		11,469
Glathor fruit				997						997
Roshia grass				1,430						1,430
Mhowra flowers				3,172						3,172
Netal and murrum				429		65,923(a)				66,352
Stone and earth				2,076		3,759(a)		12,438		19,873
Nirgudi Shirali				614		2				616
Anjan leaves				2,819		10				2,829
Thorne				1,340		21		1		1,362
Bafed Musali				514						514
Hadhai Gum				3,390						3,390
Tolambi				1,415						1,415
Hiria and Shikekai				5,460						5,460
Fabul pods				2,349						2,349
Miscellaneous		7		3,132		494		1,35,516		1,39,149
Total, Reserved Forest		7		1,40,164		70,414		4,54,481		6,65,069
<i>Protected Forests</i>										
Miscellaneous				235						235
Total, Protected Forests				235						235
<i>Leased Forests</i>										
Stone and earth				101		705				807
Miscellaneous				1						1
Total, Leased Forests				102		705				808
Total, Central Circle		7		1,40,504		71,120		4,54,481		6,66,113

(a) Includes free grant worth Rs. 66,321 to P.W.D. East Khandesh and Rs. 354 to District Local Board, West Khandesh.

FORMS Nos. 65 and 66 (combined).

COMBINATION OF FORMS NOS. 65 AND 66.—Account of Timber and depôts, sold locally or otherwise disposed

Name of Division				Balance at commencement of the year in forests and sale depôts		Received during the year
				2	3	4
1				C. ft.	Rs.	C. ft.
NORTHERN CIRCLE.						
Panch Mahals—						
Teak	...	...	...	53	10	1,02,678
North Thana—						
Teak	...	...	...	13,516	3,879	56,578
Injaili	...	...	...	11,696	913	19,351
			Total	25,202	4,292	75,929
East Thana—						
Teak	...	...	...	11,706	1,951	28,789
Injaili	...	...	...	4,835	403	2,181
			Total	16,541	2,354	30,970
West Thana—						
Teak	...	...	...	1,347	673	58,753
Injaili	...	...	...	178	45	8,584
			Total	1,525	718	67,342
East Nasik—						
Teak	...	...	...	582	291	10,612
West Nasik—						
Teak	...	...	...	2,895	1,448	37,506
Injaili	...	...	...	.....	.....	9
			Total	2,895	1,448	37,515
Surat Sub-Division—						
Teak	...	...	...	168	35	6,042
Injaili	...	...	...	12	2	113
			Total	180	37	6,155
			Total, Timber	30,267	7,787	3,00,963
			Teak	...	...	...
			Injaili	...	...	...
			Total	46,978	9,150	3,31,201
Fuel—						
Panch Mahals	...	...	...	494	20	58,831
North Thana	...	...	...	2,04,765	224	1,48,758
East Thana	...	...	...	74,473	186	1,16,762
West Thana	...	...	...	15,699	314	21,597
East Nasik	...	...	...	730	7	53,840
West Nasik	...	...	...	51	3	4,503
Surat Sub-Division	...	...	...	625	6	775
			Total, Fuel	2,96,842	760	4,05,071
			Total, Timber and Fuel	3,43,820	9,910	7,36,272

other produce cut or collected by Government Agency and brought to of during the year 1940-41.

Total 5	Disposed of during the year 6	Balance in hand at the close of the year in forests and sale depôts		Difference in value	
		7	8	In favour of the year 9	Against the year 10
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
1,02,731	32,057	10,674	4,750	4,740	.....
70,094	42,408	27,686	10,090	6,711	.....
31,037	14,448	16,582	1,296	383	.....
1,01,131	56,856	44,275	21,386	7,094	.....
40,495	20,073	20,422	3,404	1,453	.....
7,016	1,755	5,261	438	35	.....
47,511	21,828	25,683	3,842	1,488	.....
60,105	50,168	9,937	4,968	4,295	.....
8,762	2,458	6,304	1,576	1,531	.....
68,867	52,626	16,241	6,544	5,826	.....
11,194	1,069	10,125	5,063	4,772	.....
40,401	20,510	19,891	9,946	8,498	.....
9	9	.....	.....	.....	.....
40,410	20,519	19,891	9,946	8,498	.....
6,240	2,032	4,178	2,634	2,599	.....
125	110	15	2	.....	.....
6,335	2,142	4,193	2,636	2,599	.....
3,31,290	2,28,517	1,02,913	40,855	33,068	.....
46,949	18,780	28,169	3,312	1,949	.....
3,78,179	2,47,097	1,31,082	44,167	35,017	.....
59,325	44,469	4,856	152	132	.....
3,53,523	27,258	3,26,265	255	31	.....
1,91,240	66,560	1,24,680	312	126	.....
37,226	18,186	19,110	382	68	.....
54,570	11,680	42,890	429	422	.....
4,559	3,032	1,527	95	92	.....
1,400	1,200	200	2	.....	4
7,01,913	1,82,335	5,19,578	1,627	871	4
10,80,092	4,29,432	6,50,660	45,794	35,888	4

COMBINATION OF FORMS NOS. 65 AND 66.—Account of Timber and depôts, sold locally or otherwise disposed

Name of Division	Balance at commencement of the year in forests and sale depôts		Received during the year
	2	3	4
NORTHERN CIRCLE—contd.			
<i>Minor Forest Produce.</i>			
Bamboos—			
Panch Mahals ... ..	.....	.....	7
North Thana ... ..	.....	.....	15
West Nasik ... ..	.....	.....	1
Total ... ..	.....	.....	23
Sandalwood—			
West Nasik ... ..	.....	.....	125
<i>Other minor produce.</i>			
North Thana ... ..	.....	.....	28
West Nasik ... ..	.....	.....	1,008
East Nasik ... ..	.....	.....	595
Total ... ..	.....	.....	1,631
CENTRAL CIRCLE.			
<i>Timber.</i>			
East Khandesh	9,893	1,441	9,296
West Khandesh	3,374	211	47,745
West Khandesh Sub-Division ... ..	.....	.....	8,590
Poona	42	25	30,194
Kolaba	12,065	928	24,243
Satara ... ..	.....	.....	1,565
Total Timber	25,374	2,605	1,22,333
<i>Fuel.</i>			
East Khandesh	56,225	1,077	7,125
West Khandesh	39,110	782	8,887
West Khandesh Sub-Division ... ..	.....	.....	19,287
Poona	1,570	78	2,80,832
Kolaba	37,423	2,592	47,729
Satara	93,826	3,742	98,121
Total Fuel	2,28,154	8,271	4,62,001
<i>Charcoal.</i>			
Satara	10,302	515	23,875

other produce cut or collected by Government Agency and brought to of during the year 1940-41—contd.

Total	Disposed of during the year	Balance in hand at the close of the year in forests and sale depôts		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
Rs.	Rs.	C. ft.	Rs.	Rs.	Rs.
7	7	.....	.....	.....	.....
15	15	.....	.....	.....	.....
1	1	.....	.....	.....	.....
23	23	.....	.....	.....	.....
125	125	.....	.....	.....	.....
28	28	.....	.....	.....	.....
1,008	1,008	.....	.....	.....	.....
595	.....	595	.....	595	.....
1,631	1,036	595	.....	595	.....
	Net difference in favour		of the year	Rs. 35,289.	
C. ft.	C. ft.				
19,189	9,314	9,875	6,287	4,846	.....
51,119	24,161	26,958	23,500	23,289	.....
8,590	1,839	6,751	872	872	.....
30,236	28,882	1,354	198	173	.....
37,008	27,468	9,510	6,328	5,400	.....
1,565	253	1,312	99	99	.....
1,47,707	91,917	55,790	37,284	34,679	.....
63,350	55,659	7,691	1,026	.....	51
47,997	42,697	5,300	106	.....	676
19,237	9,512	9,775	195	195	.....
2,82,422	2,82,422	.....	.....	.....	78
85,152	72,707	12,445	2,166	.....	426
1,91,947	86,962	1,04,985	3,501	59	.....
6,90,155	5,49,959	1,40,196	7,294	254	1,231
94,177	28,667	5,510	338	.....	157

COMBINATION OF FORMS NOS. 65 AND 66.—Account of Timber and depôts, sold locally or otherwise disposed

Name of Division	Balance at commencement of the year in forests and sale depôts		Received during the year
	1	2	3
CENTRAL CIRCLE—contd.			
	C.ft.	Rs.	Rs.
Sandalwood	.....	.....	23
Total, Central Circle—Timber, Fuel and Charcoal.	268,880	11,391	C.ft. 6,08,209
Sandalwood	.....	.....	Rs. 23
SOUTHERN CIRCLE.			
<i>Timber.</i>			
Kanara, Northern Division—			
Teak	430,084	5,20,312	C.ft. 5,33,894
Blackwood	2,773	3,469	6,762
Junglewood	8,318	10,512	65,868
Total	441,175	5,34,293	6,06,524
Kanara, Eastern Division—			
Teak	25,031	1,022	56,242
Junglewood	170	5	12,138
Total	25,201	1,027	68,380
Kanara, Western Division—			
Teak	33,351	25,701	35,899
Blackwood	767	943	98
Junglewood	.....	.....	56,075
Total	34,118	26,644	91,072
Belgaum Division—			
Teak	.....	.....	42,372
Junglewood	.....	.....	64,531
Total	.....	.....	1,06,903
Mysarwar-Bijapur Division—			
Teak	4,586	405	6,444
Junglewood	68	24	5
Total	4,654	429	6,449
Total, Timber—			
Teak	493,052	5,47,440	6,74,851
Blackwood	3,540	4,412	6,860
Junglewood	6,556	10,541	1,97,617
Total	503,148	5,62,393	8,79,328

other produce cut or collected by Government Agency and brought to of during the year 1940-41—contd.

Total	Disposed of during the year	Balance in hand at the close of the year in forests and sale depôts		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
Rs.	Rs.	C. ft.	Rs.	Rs.	Rs.
23	20	.....	3	3	.....
C. ft. 872,039	C. ft. 670,543	2,01,496	44,916	34,933	1,408
Rs. 23	Rs. 20	.....	3	3	.....
Net in favour of the year Rs.				32,528.	
C. ft. 961,973	C. ft. 465,305	498,573	6,57,230	1,46,318	.....
9,535	7,145	2,390	3,321	.....	148
74,186	51,333	22,853	29,430	17,918	.....
1,047,699	523,783	523,916	6,98,981	1,64,836	148
81,273	60,355	20,918	1,408	386	.....
12,308	11,689	619	237	232	.....
93,581	72,044	21,537	1,645	618	.....
69,250	20,718	48,532	33,581	7,880	.....
865	767	98	118	.....	825
55,075	27,414	27,661	24,342	24,342	.....
125,190	48,999	76,291	58,041	32,222	825
42,372	42,372	.....	.....	.....	.....
64,531	13,443	51,088	5,379	5,379	.....
106,903	55,815	51,088	5,379	5,379	.....
11,030	6,809	4,221	846	441	.....
73	68	5	2	.....	22
11,103	6,877	4,226	848	441	22
1,167,908	595,559	572,344	7,03,065	1,55,625	.....
10,400	7,912	2,488	3,439	.....	973
206,173	103,947	102,226	58,890	47,871	22
1,384,476	707,418	677,058	7,64,894	2,03,496	995

COMBINATION OF FORMS NOS. 65 AND 66.—*Account of Timber and depôts, sold locally or otherwise disposed*

Name of Division 1	Balance at commencement of the year in forests and sale depôts		Received during the year 4
	2	3	
SOUTHERN CIRCLE—contd.			
<i>Fuel and Charcoal.</i>			
Kanara, Northern Division	66	22	150
Dharwar-Bijapur Division	1,400	40	375
Total, Fuel and Charcoal ...	1,466	62	525
<i>Bamboos.</i>			
Kanara, Northern Division	Rs. 734
Kanara, Western Division	10
Belgaum Division	2,678
Dharwar-Bijapur Division	23
Total, Bamboos	3,445
<i>Sandalwood.</i>			
Kanara, Northern Division	1,010	1,694
Kanara, Eastern Division	6,474	10,531
Kanara, Western Division	102	40
Belgaum Division	15,490	19,961
Dharwar-Bijapur Division	43,135	86,070
Total, Sandalwood	66,211	1,18,296
<i>Other Minor Forest Produce.</i>			
Kanara, Western Division	2,000	10
Belgaum, Division	164
Total other minor produce	2,000	174
<i>Drift and Waifwood and confiscated Forest Produce.</i>			
Kanara, Eastern Division	374*
Kanara, Western Division	175	241
Dharwar-Bijapur Division	6
Total, Drift and waif wood and confiscated produce.	175	621
Total, Southern Circle.	506,614	5,62,455	C. ft. 879,853
(Timber and fuel Sandalwood and minor Forest Produce	68,386	Rs. 1,22,536
Grand Total, Bombay Pro- vince.	1,114,264	5,83,756	C. ft. 2,224,334
(Timber, and fuel Sandalwood and other minor Forest Produce	63,356	Rs. 1,24,338

* Transferred from Kanara Western Division to Kanara, Eastern Division.

other produce cut or collected by Government Agency and brought to of during the year 1940-41—concl'd.

Total	Disposed of during the year	Balance in hand at the close of the year in forests and sale depôts		Difference in value	
		In favour of the year	Against the year	9	10
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
216	180	36	12	.....	10
1,775	1,400	375	15	.....	25
1,991	1,580	411	27	.....	35
Rs. 734	Rs. 734	.....	.....	.....	.....
10	10	.....	.....	.....	.....
2,678	1,935	.....	743	743	.....
23	23	.....	.....	.....	.....
3,445	2,702	.....	743	743	.....
2,704	1,354	.....	1,350	340	.....
17,005	8,429	.....	8,576	2,102	.....
142	4	.....	188	36	.....
35,451	15,231	.....	20,220	4,790	.....
1,29,205	62,058	.....	67,117	21,012	.....
1,84,507	87,076	.....	97,431	31,220	.....
2,010	1,656	.....	354	.....	1,646
164	164	.....	.....	.....	.....
2,174	1,820	.....	354	.....	1,646
374	374	.....	.....	.....	.....
416	374 42	.....	.....	.....	175
6	6	.....	.....	.....	.....
796	793	.....	.....	.....	175
C. ft. 1,336,467	C. ft. 703,998	677,469	7,64,921	2,03,496	(a)1,030
Rs. 1,90,922	Rs. 92,394	.....	98,528	31,963	(a)1,821
C. ft. 3,338,598	C. ft. 1,308,973	1,529,625	8,55,631	2,74,317	(b)2,442
Rs. 1,92,724	Rs. 93,593	.....	99,126	32,561	(b)1,821

(a) Net difference in favour of the year Rs. 2,32,608—Southern Circle.

(b) Net difference in favour of the year Rs. 2,93,039—Bombay Province.

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Panch Mahals Division	North Thana Division	East Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
NORTHERN CIRCLE				
REVENUE				
X.—Forest.				
<i>I.—Timber and other produce removed from the forest by Government Agency—</i>				
a. Timber	.....	53,040 8 0	19,341 0 9	7,609 3 0
b. Firewood and charcoal	.....	759 13 0	140 1 6	.....
c. Bamboos	.....	7 8 0	15 0 0	.....
d. Sandalwood	.....	.....	.....	.....
e. Grass and other minor produce	.....	.....	23 1 0	.....
Total I	.....	53,847 13 0	19,524 3 3	7,609 3 0
<i>II.—Timber and other produce removed from the forest by consumers or purchasers—</i>				
a. Timber	.....	1,49,687 12 3	6,28,966 6 7	3,91,821 15 9
b. Firewood and charcoal	.....	2,934 10 0	379 9 3	533 11 6
c. Bamboos	.....	761 1 0	3,643 5 6	300 12 0
d. Grazing and fodder grass	.....	13,301 10 0	13,429 0 0	320 0 0
e. Other minor produce	.....	7,990 6 10	1,963 11 6	4,181 11 0
f. Other Items	.....	.....	.....	.....
g. Commutation fees	.....	.....	.....	.....
Total II	.....	1,73,975 8 1	6,43,392 0 10	2,97,158 2 3
<i>III.—Drift and waif wood and confiscated forest produce.</i>				
Total III	.....	23 5 6	44 11 6	16 1 0
<i>IV.—Revenue from forest not managed by Government—</i>				
a. Duty on foreign timber and other forest produce.	.....	.....	.....	.....
b. Revenue from shared and private forests.	.....	.....	.....	5 13 4
Total IV	.....	.....	.....	5 13 4
<i>V.—Miscellaneous—</i>				
a. Fines and forfeitures	.....	533 10 0	4,128 4 0	5,084 7 0
b. Refunds	4 1 0	85 1 0	18 0 9	12 5 0
c. Other sources	1,900 8 0	18,566 3 11	9,798 3 3	8,736 1 3
d. Recoveries of Establishment Charges.	.....	330 0 0	.....	.....
e. Contribution towards leave salary and passage of officers lent to foreign service.	.....	.....	78 11 0	.....
Total V	1,904 9 0	19,914 14 11	14,023 3 0	13,832 13 3
Gross Total Revenue	1,904 9 0	2,47,661 9 6	6,81,974 2 7	3,18,622 0 10
<i>Deduct—Refunds</i>	.....	-157 8 0	1,019 4 3	-60 0 0
Net Revenue	1,904 9 0	2,47,494 1 6	6,80,954 13 10	3,18,562 0 10

of the different Divisions for the financial year 1940-41.

West Thana Division	East Nasik Division	West Nasik Division	Surat Sub- Division	Total for 1940-41
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
22,605 5 0	26 3 0	2,510 5 0	1,228 0 0	1,06,680 1 0
48 6 0	.....	.....	.....	988 4 6
.....	.....	0 7 6	.....	23 15 6
.....	.....	125 1 0	.....	125 1 0
.....	.....	1,007 11 0	.....	1,085 12 0
22,853 11 0	26 9 0	3,682 11 6	1,208 0 0	1,08,752 2 9
3,16,280 10 3	13,038 1 6	52,383 8 3	1,47,993 10 0	16,00,122 0 7
844 12 0	17,468 3 3	2,291 4 0	654 14 0	25,125 0 0
626 12 0	41 5 0	2,310 1 6	3,238 4 6	10,911 9 6
.....	11,391 4 0	18,028 4 0	130 0 0	56,600 2 0
3,648 10 9	9,024 6 0	5,600 12 0	1,309 12 9	33,019 6 10
.....
.....
3,21,400 13 0	53,978 3 9	80,566 13 9	1,53,346 0 3	17,25,808 2 11
33 8 6	31 11 6	168 10 3	7 8 0	325 8 3
33 8 6	31 11 6	168 10 3	7 8 0	325 8 3
.....
7,430 3 4	.....	.....	.....	7,430 0 8
7,430 3 4	.....	.....	.....	7,430 0 8
4,560 0 6	805 0 0	1,552 1 0	110 0 0	17,574 6 6
39 11 0	9 3 0	21 5 0	.....	189 19 9
6,950 7 0	19,541 19 0	12,067 2 3	5,050 9 6	82,003 13 2
1,278 12 6	.....	.....	.....	1,628 12 6
.....	.....	.....	.....	78 11 0
13,128 15 0	20,365 13 0	13,940 8 3	5,160 9 6	1,62,161 5 11
3,64,847 2 10	71,392 5 3	98,358 11 9	1,59,722 10 9	19,41,488 4 6
-5,389 7 0	-175 10 0	-444 13 9	-164 13 0	-7,681 5 6
3,59,457 11 10	70,916 11 3	97,913 11 0	1,59,557 13 9	19,33,807 12 0

FORM NO. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Panch Mahals Division	North Thana Division	East Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE--10, FOREST				
B.—CONSERVANCY AND WORKS.				
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>				
a. Timber	19,201 2 6	7,104 8 9	3,402 5 3
b. Firewood and charcoal	580 0 9	3 2 0	.....
c. Bamboos	2 6 0	.....
d. Sandalwood
e. Grass and other minor produce.
Total, B—I	19,781 3 3	7,110 0 9	3,402 6 3
<i>II.—Timber and other produce removed from the forests by consumers or purchasers.</i>				
	2,965 9 0	31,078 1 0	9,994 11 6
Total, B—II	2,965 9 0	31,078 1 0	9,994 11 6
<i>III.—Live stock, Stores, Tools and Plant—</i>				
a. Purchase of cattle
b. Feed and upkeep of cattle
c. Purchase of stores, tools and plant.	250 0 0	714 4 11	113 15 1
d. Customs duty
Total, B—III	250 0 0	714 4 11	113 15 1
<i>IV.—Communications and Buildings—</i>				
a. Railways and Tramways
b. Roads and bridges (other than those in connection with Railways and Tramways).	75 0 0	951 3 9	3,481 2 6
c. Buildings	1,247 3 6	2,878 10 6	1,753 15 3
d. Other works	36 4 6	398 12 6	54 12 0
Total, B—IV	1,358 8 0	4,228 10 3	5,989 13 9

of the different Divisions for the financial year 1940-41—contd.

West Thana Division	East Nasik Division	West Nasik Division	Surat Sub- Division	Total for 1940-41
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
13,156 2 10	.....	581 14 9	884 5 6	44,330 7 7
.....	.....	.....	.....	583 2 9
.....	.....	.....	.....	2 6 0
.....	.....	10 8 0	.....	10 8 0
.....
13,156 2 10	.....	592 6 9	884 5 6	44,926 8 4
17,564 9 7	1,714 14 6	1,877 1 6	3,162 4 3	68,357 3 4
17,564 9 7	1,714 14 6	1,877 1 6	3,162 4 3	68,357 3 4
.....
.....
448 7 3	111 5 0	208 2 0	193 4 6	2,039 6 9
.....
448 7 3	111 5 0	208 2 0	193 4 6	2,039 6 9
.....
1,763 4 0	343 6 0	5,409 2 3	498 4 0	12,531 6 5
793 3 6	1,074 7 6	1,116 6 3	1,583 5 6	10,452 3 6
25 0 0	26 4 0	24 0 0	292 1 0	869 2 0
9,586 7 6	1,446 1 6	6,549 8 6	2,273 10 6	23,832 12 0

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Panch Mahals Division	North Thana Division	East Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST				
B.—CONSERVANCY AND WORKS—contd.				
V.—Organisation, improvement and extension of forests—				
a. Demarcation	355 6 3	376 13 6	453 6 0
b. Forest Settlement
c. Surveys
d. Working Plans
e. Plantations	179 13 0	.....	182 14 0
f. Reproduction	2,163 4 8	10,813 12 6	3,597 1 3
g. Fire protection	2,013 7 0	3,250 2 6	2,842 5 0
h. Other works	723 0 6	357 0 0	25 0 0
Total, B—V	5,446 15 3	14,797 12 6	7,400 10 3
VI.—Miscellaneous—				
a. Rent of leased forests and payments to shareholders in forests managed by Government.	863 1 0
b. Law charges	43 9 0	.....	.....
c. Grain compensation allowance.
d. Clothing	2,752 0 0	1,956 12 9	3,257 11 6
e. Famine fodder charges	48 1 6	.....	.....
f. Other charges	49 7 0	116 15 0	53 5 6
Total, B—VI	2,893 1 6	2,073 11 9	4,191 2 0
VII.—Suspense—				
a. Work advances
Total, B—VII
VIII.—Demarcation of boundaries (between British territory and Indian States).				
.....	10 0 0	10 0 0
IX.—Deduct—Establishment Charges recoverable from contractors, etc., on account of pay of Depot Officers.				
.....	-16 2 0	-171 0 0
Total B-Conservancy and Works	32,631 5 0	59,996 7 2	30,234 9 10

of the different Divisions for the financial year 1940-41—contd.

West Thana Division	East Nasik Division	West Nasik Division	Surat Sub- Division	Total for 1940-41
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
149 12 3	130 5 0	277 6 3	58 2 0	1,501 6 3
.....
.....
.....
.....	941 15 9	.....	.....	1,304 10 9
4,527 14 6	1,206 9 0	939 14 9	1,217 9 3	24,772 1 9
2,469 9 3	315 0 0	12 2 0	2,711 12 6	13,034 6 3
.....	359 4 5	.....	.....	1,370 5 0
7,167 4 0	2,853 5 3	1,229 7 0	3,987 7 9	42,982 14 0
.....	.....	.....	.....	853 1 0
.....	.....	15 10 0	.....	59 3 0
.....
2,530 9 6	1,298 11 0	1,560 5 6	622 12 6	13,993 14 9
.....	.....	.....	.....	48 1 6
19 12 0	2 3 0	30 12 0	.....	271 6 6
2,550 5 6	1,300 14 0	1,636 11 6	622 12 6	15,260 10 9
.....
.....
.....	10 0 0	2 0 0	.....	32 0 0
.....	.....	.....	.....	-187 2 0
43,473 4 8	7,436 8 3	12,095 5 3	11,223 13 0	1,97,144 5 2

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head	Direction	Panch Mahals Division	North Thana Division	East Thana Division
	Rs. s. p.	Rs. s. p.	Rs. s. p.	Rs. s. p.
EXPENDITURE—10, FOREST—<i>contd.</i>				
C.—ESTABLISHMENTS				
I.—Pay of Officers—				
a. Conservators	25,800 0 0	.....	.....	.....
b. Superior officers plus personal and special pay—				
Charged	.....	.....	14,000 0 0	.....
Voted	.....	7,173 14 0	2,558 6 0	8,242 14 0
c. Leave salary—				
Charged	.....	.....	.....	.....
Voted	.....	.....	.....	.....
Total, C.—I	{ Charged ... 25,800 0 0 Voted	{	{ 14,000 0 0 2,558 6 0	{
II.—Pay of Establishment—				
a. Subordinate forest and depot establishment plus personal and special pay.	.....	38,217 6 0	61,934 0 0	63,831 7 0
b. Office establishment plus special and personal pay.	10,049 2 0	7,380 3 0	10,831 15 0	9,704 11 0
c. Proficiency allowance	.....	.....	.....	.....
d. Temporary establishment plus special pay.	.....	1,710 0 0	1,401 9 0	878 12 0
e. Leave salary	1,432 14 0	4,643 4 0	5,340 14 0	5,333 2 0
Total, C.—II	11,482 0 0	51,950 13 0	79,508 6 0	80,248 0 0
III.—Allowances, Honoraria, etc.—				
a. Compensatory allowances—				
Charged	.....	.....	.....	.....
Voted	.....	.....	.....	191 2 0
b. Travelling allowance—				
Charged	2,264 12 0	.....	2,061 15 0	.....
Voted	845 15 0	9,106 9 0	12,587 13 0	13,313 8 0
c. Plague allowance	.....	.....	.....	.....
d. House-rent allowance—				
Charged	.....	.....	.....	.....
Voted	.....	.....	.....	.....
e. Forest training	.....	.....	.....	.....
f. Grain compensation	.....	.....	.....	.....
g. Cost of passages granted under the Superior Civil Service Rules, 1924—				
Charged	767 6 3	.....	.....	.....
h. Payments on account of medical treatment of British officers of the Superior Civil Service.	.....	.....	.....	.....
Total, C.—III	{ Charged ... 3,032 2 3 Voted ... 845 15 0	{	{ 2,061 15 0	{
IV.—Contingencies—				
a. Stationery	10 13 6	286 12 0	414 4 6	359 7 5
b. Carriage of tents and records	632 11 0	395 8 6	631 7 6	264 14 3
c. Rents, rates and taxes	190 0 0	133 2 0	58 12 0	83 4 0
d. Service postage and telegram charges.	875 3 0	1,500 0 0	2,657 4 0	1,500 15 3
e. Sundries	439 6 3	458 10 9	661 8 9	395 11 9
Total, C.—IV	2,148 3 9	2,774 1 3	4,323 4 9	2,603 4 9
TOTAL, C.—ESTABLISHMENTS	{ Charged ... 28,832 2 3 Voted ... 14,476 2 9	{	{ 16,061 15 0	{
F.—LOSS OR GAIN BY EXCHANGE—				
Charged	1 5 4	.....	.....	.....
GRAND TOTAL OF ALL EXPENDITURE UNDER 10, FOREST	43,309 10 4	1,03,699 10 5	1,75,036 3 11	1,34,733 6 7
Surplus or deficit	-41,405 1 4	+1,43,774 7 3	+5,05,918 9 11	+1,83,228 10 3

of the different Divisions for the financial year 1940-41—contd.

West Thana Division	East Nasik Division	West Nasik Division	Surat Sub- Division	Total for 1940-41
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	.....	.....	25,800 0 0
9,091 6 0	7,911 10 0	3,450 0 0 8,433 5 0	6,124 8 0	17,450 0 0 49,335 15 0
878 10 0	.....	544 0 0	.....	1,422 10 0
9,970 0 0	7,911 10 0	3,450 0 0 8,977 5 0	6,124 8 0	43,250 0 0 50,938 9 0
67,100 11 0	34,216 6 0	43,843 1 0	16,243 8 0	3,25,356 7 0
10,498 0 0	7,613 0 0	9,361 4 0	3,148 1 0	68,586 4 0
1,056 9 0	.....	302 14 0	332 15 0	5,662 11 0
6,453 8 0	4,522 8 0	4,781 15 0	1,297 10 0	34,305 11 0
86,103 12 0	46,351 14 0	68,255 2 0	21,022 3 0	4,33,961 1 0
2,324 5 0	.....	16 2 0	.....	2,329 9 0
15,179 9 6	8,187 7 0	435 0 0 10,062 12 0	3,248 9 0	4,761 11 0 73,452 3 6
690 8 6	.....	.....	.....	590 8 6
.....	.....	.....	.....	767 6 3
.....	.....	435 0 0	.....	5, 29 1 3
15,093 7 0	8,187 7 0	10,098 14 0	3,248 9 0	75,572 4 0
399 10 0 263 4 6 41 3 2 1,693 13 3	244 15 0 211 13 0 9 0 0 1,200 14 6	801 10 3 229 0 0 135 9 0 1,100 7 6	76 14 0 307 2 6 4 0 0 700 1 0	2,093 6 9 3,001 13 3 555 14 2 11,134 10 6
376 12 0	206 5 6	438 1 0	206 6 6	3,183 0 6
2,786 10 11	1,373 0 0	2,265 11 9	1,294 8 0	20,068 13 2
.....	.....	3,885 0 0	.....	45,579 1 3
1,15,957 13 11	64,323 15 0	79,631 0 9	31,689 11 0	6,60,560 11 2
.....	.....	.....	.....	1 5 4
1,69,431 2 7	71,760 7 3	95,601 6 0	42,913 8 0	9,25,465 6 11
+2,00,026 9 3	-803 12 0	+2,312 8 0	+1,16,944 5 9	+11,10,316 5 1

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	East Khandesh Division	West Khandesh Division	West Khandesh Sub- Division.
CENTRAL CIRCLE	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
REVENUE				
X.—Forest				
I.—Timber and other produce removed from the forest by Government Agency—				
a. Timber	.....	838 14 0	14,443 15 0	129 2 0
b. Firewood and charcoal	.....	314 8 0	.....	578 0 0
c. Bamboos	.....	.....	.....	.....
d. Sandalwood	.....	66 0 0	.....	6 1 0
e. Grass and other minor produce.	.....	.....	.....	7 5 6
Total, I	.....	1,213 6 0	14,443 15 0	520 8 6
II.—Timber and other Produce removed from the Forest by Consumers or Purchasers—				
a. Timber	.....	11,121 8 0	1,37,040 12 0	18,031 13 0
b. Firewood and charcoal	.....	17,931 5 9	872 10 0	5,920 6 9
c. Bamboos	.....	8,406 12 3	2,317 14 3	1,709 14 0
d. Grazing and fodder grass	.....	30,604 5 9	2,170 1 0	27,027 0 0
e. Other minor produce	.....	2,573 4 0	12,637 10 0	6,067 15 3
f. Other items	.....	.....	.....	.....
g. Commutation fees	.....	.....	.....	.....
Total, II	.....	71,537 3 9	1,65,038 15 3	58,757 1 0
III.—Drift and waif wood and confiscated Forest Produce	.....	109 0 9	1 10 0	151 1 6
Total, III	.....	109 0 9	1 10 0	151 1 6
IV.—Revenue from Forest not managed by Government—				
a. Duty on foreign timber and other forest produce	.....	4,232 0 0	1,534 14 0	736 8 0
b. Revenue from shared and private forests	.....	.....	.....	.....
Total, IV	.....	4,232 0 0	1,534 14 0	736 8 0
V.—Miscellaneous—				
a. Fines and forfeitures	.....	1,673 2 0	2,179 12 0	1,198 13 6
b. Refunds	.....	43 0 0	166 8 6	60 4 0
c. Other sources	2,500 0 0	17,064 10 0	34,912 1 6	27,597 4 3
d. Recoveries of Establishment Charges	.....	.....	47 4 0	.....
Total, V	2,500 0 0	18,773 12 0	37,305 10 0	28,856 5 9
VI.—Receipts in England	46 0 0	.....	.....	.....
VII.—Loss or gain by exchange	0 1 3	.....	.....	.....
GROSS TOTAL REVENUE	2,546 1 3	95,840 6 6	2,08,325 0 3	59,021 8 9
Deduct—Refunds				
{ G. Fee	.....	21 4 0	16 8 0	.....
{ Others	150 0 0	76 10 0	1,073 15 3	2,433 4 0
NET REVENUE	2,396 1 3	95,742 8 6	2,07,228 9 0	56,588 4 9
EXPENDITURE—10—FOREST				
B.—CONSERVANCY AND WORKS.				
I.—Timber and other produce removed from the Forests by Government Agency—				
a. Timber	.....	836 13 3	13,698 14 0	.....
b. Firewood and charcoal	.....	.....	.....	534 7 0
c. Bamboos	.....	.....	.....	.....
d. Sandalwood	.....	91 11 0	.....	.....
e. Grass and other minor produce.	.....	.....	.....	.....
Total, B—I	.....	878 8 3	18,698 14 0	634 7 0

of the different Divisions for the financial year 1940-41—contd.

Poona Division	Kolaba Division	Satara Sub-Division	Working Plans Division, N. C. and C. C.	Total for the year 1940-41
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
12,185 14 0	3,407 4 0	46 8 0	.....	31,045 9 0
15,772 5 0	4,304 10 0	3,603 15 0	.....	24,273 6 0
.....
1 6 6	3 0 0	180 5 0	.....	256 12 6
.....	.....	.....	.....	7 5 6
27,939 9 6	7,714 14 0	3,730 13 0	.....	55,589 1 0
21,852 12 6	1,19,417 1 0	22,244 1 0	.....	3,29,737 15 6
23,801 14 0	4,124 11 9	2,466 6 0	.....	55,117 5 3
64 1 6	63 15 0	34 6 0	.....	12,537 10 0
20,195 9 3	116 2 0	12,042 2 0	.....	92,054 4 0
5,504 4 3	3,660 11 0	1,339 7 0	.....	35,792 3 6
.....
71,448 4 6	1,27,391 8 9	41,186 6 0	.....	5,25,359 7 3
98 15 6	869 11 5	15 4 6	.....	1,245 11 9
98 15 6	869 11 5	15 4 6	.....	1,245 11 9
.....	.....	.....	.....	6,473 6 0
.....	7 8 0	4 6 0	.....	11 14 0
.....	7 8 0	4 6 0	.....	6,485 4 0
339 12 0	341 4 0	735 7 0	.....	6,469 2 6
82 15 0	71 15 0	25 0 0	10 0 0	459 10 6
6,248 0 0	11,491 4 1	4,958 3 6	1 1 0	1,04,770 8 4
.....	2,777 15 0	.....	.....	2,825 3 0
6,870 11 0	14,682 6 1	5,719 10 6	11 1 0	1,14,524 8 4
.....	.....	.....	.....	46 0 0
.....	.....	.....	.....	0 1 3
1,06,177 8 6	1,50,666 0 4	50,651 7 0	11 1 0	7,03,244 1 7
.....	20 8 0	31 12 0	.....	90 9 0
60 6 6	4,984 14 0	43 2 0	.....	8,533 3 9
1,06,117 2 0	1,45,600 10 4	50,551 9 0	11 2 9	6,94,320 13 10
5,325 2 6	3,912 14 9	.....	.....	28,773 12 5
3,439 11 6	1,127 0 0	1,362 7 0	.....	6,763 9 6
.....
.....	.....	.....	.....	41 11 0
.....
8,764 14 0	5,039 14 9	1,362 7 0	.....	35,579 1 0

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	East Khandesh Division	West Khandesh Division	West Khandesh Sub-Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—contd.				
B—CONSERVANCY AND WORKS.				
<i>—contd.</i>				
II.—Timber and other Produce removed from the Forests by consumers or purchasers ...				
	.....	1,578 13 9	5,277 11 9	3,823 4 0
Total, B—II ...	.....	1,578 13 9	5,277 11 9	3,823 4 0
III.—Live-stock, stores, tools and plant—				
c. Purchase of stores, tools and plant ...				
	90 11 9	289 8 0	119 5 0	114 14 0
Total, B—III ...	90 11 9	289 8 0	119 5 0	114 14 0
IV.—Communications and Buildings—				
b. Roads and bridges (other than those in connection with Railways and Tramways) ...				
	.....	3,305 3 9	3,825 12 9	2,577 10 0
c. Buildings ...				
	.....	740 7 0	1,835 0 0	1,034 15 3
d. Other works ...				
	.....	200 12 0	190 2 6	16 4 0
Total, B—IV ...	.....	4,245 6 9	5,571 15 3	3,627 13 3
V.—Organization, improvement and extension of Forests—				
a. Demarcation ...				
	.....	70 6 0	118 2 0	54 12 0
b. Forest Settlement ...				
	.....	.....	.....	15 8 6
c. Surveys ...				

d. Working Plans ...				
	.....	.....	.....	381 7 6
e. Plantations ...				
	.....	.....	.....	576 7 6
f. Reproduction ...				
	6 15 0	365 1 6	1,087 12 0	2,049 14 3
g. Fire protection ...				
	.....	1,034 3 0	3,125 7 9	731 9 0
h. Other works ...				
	.....	271 0 0	773 15 6	.....
Total, B—V ...	6 15 0	1,680 10 6	5,191 5 3	3,642 10 9
VI.—Miscellaneous—				
a. Rent of leased forests and payments to shareholders in forests managed by Government ...				

b. Law charges ...				

c. Grain Compensation allowance ...				

d. Clothing ...				
	.....	2,609 7 3	1,845 15 6	1,452 2 0
e. Famine Fodder charges ...				
	.....	42 14 6	90 2 0	25 9 3
f. Other charges ...				

Total, B—VI ...	.....	2,652 5 9	1,736 1 6	1,480 11 3
VII.—Suspense—				
a. Works advances ...				

Total, B—VII ...	.....	.....	.....	.....
VIII.—Demarcation of boundaries between British territory and Indian States. ...				
	.....	.....	11 9 0	.....
Total, B—CONSERVANCY AND WORKS ...	97 10 9	11,325 5 0	36,320 13 9	13,574 12 3
C.—ESTABLISHMENTS				
I.—Pay of Officers—				
a. Conservators (Charged) ...				
	23,193 7 0	.....	.....	.....
b. Superior Officers (Charged plus Personal and special pay.) ...				

c. Leave Salary ...				
	.....	5,904 11 0	4,855 0 0	2,044 8 0
Deduct.—Recovery on accounts of family allotment of Officers ...				
	2,358 0 0	.....	.....	.....
Total, I ...	.....	5,904 11 0	4,855 0 0	2,044 8 0

of the different Divisions for the financial year 1940-41—contd.

Poona Division	Kolaba Division	Satara Division	Working Plans Division, N. C. and C. C.	Total for the year 1940-41
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
456 6 3	1,762 13 0	223 10 0	254 14 6	13,377 6 3
456 6 3	1,762 19 0	223 10 0	254 14 6	13,377 6 3
247 1 0	172 8 0	53 2 3	23 7 0	1,107 9 0
247 1 0	172 8 0	53 2 3	23 7 0	1,107 9 0
.....	82 4 0	.....	.....	9,250 14 6
410 13 0	388 11 6	6,635 15 6	.....	11,136 14 3
.....	.....	4 15 0	.....	412 1 6
410 13 0	450 15 6	6,640 14 6	.....	20,790 14 3
202 8 0	49 10 0	143 12 0	.....	669 2 0
.....
.....	.....	.....	.....	15 8 6
.....	.....	.....	31 8 0	31 8 0
790 7 6	.....	800 0 0	.....	1,583 15 0
538 11 0	1,653 6 6	470 0 0	.....	4,745 5 2
15 0 0	57 0 0	250 12 0	.....	6,543 5 0
.....	1,368 8 0	78 15 0	.....	3,219 15 6
1,552 10 6	3,158 8 6	1,723 7 0	31 8 0	17,101 11 6
1,608 2 0	6,902 2 11	3,412 0 2	.....	11,322 5 1
.....
1,242 13 6	2,021 0 8	1,872 3 0	103 0 0	1,946 9 9
.....	195 9 6	32 14 0	.....	200 1 3
2,257 15 6	9,025 13 11	5,507 1 2	113 0 0	22,550 0 1
.....
.....
16 0 0	.....	.....	.....	27 9 0
13,038 12 3	19,613 5 8	15,597 9 11	412 13 6	1,10,752 3 1
.....
3,353 4 0	6,590 0 0	.....	.....	23,193 7 0
.....	.....	.....	.....	9,943 4 0
6,152 15 0	4,380 12 0	3,128 15 0	7,925 11 0	31,398 8 0
.....	1,353 7 0	.....	.....	853 8 0
.....	.....	.....	.....	1,353 7 0
.....	.....	.....	.....	2,988 0 0
3,353 4 0	6,590 0 0	.....	.....	31,712 3 0
6,152 15 0	5,730 0 0	3,128 15 0	7,925 11 0	35,591 15 0

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head	Direction	East Khandesh Division	West Khandesh Division	West Khandesh Sub-Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—concl'd.				
C.—ESTABLISHMENTS—concl'd.				
II.—Pay of Establishment—				
a. Subordinate Forest and Depot Establishment plus special and personal pay	.....	49,015 3 0	39,943 3 0	40,068 7 0
b. Office Establishment plus special and personal pay	9,875 15 0	10,994 10 0	9,444 14 0	7,039 12 0
d. Temporary Establishment plus special pay	580 0 0	.....	725 11 0	300 0 0
e. Leave Salary	189 2 0	4,438 9 0	5,355 3 0	7,184 10 0
Total, II	10,945 1 0	64,443 6 0	55,469 15 0	54,612 13 0
III.—Allowances, Honoraria, etc.—				
a. Compensatory Allowances. (Charged)	.....	.....	.....	.....
(Voted)	.....	.....	.....	.....
b. Travelling allowance. (Charged)	2,292 14 0	11,105 9 0	9,943 5 0	7,575 11 0
(Voted)	825 5 0	.....	.....	.....
d. House-rent allowance. (Charged)	.....	.....	.....	.....
(Voted)	.....	.....	.....	.....
g. Cost of passages granted under the Superior Service Rules, 1921—(Charged)	.....	.....	.....	.....
Total, C.—III	2,298 14 0	11,105 9 0	9,943 5 0	7,575 11 0
(Charged)	.....	.....	.....	.....
(Voted)	825 5 0	.....	.....	.....
IV.—Contingencies—				
a. Stationery	3 4 0	273 14 0	275 13 0	181 11 0
b. Carriage of tents and records	453 11 0	195 9 0	172 7 9	180 13 0
c. Rents, rates and taxes	20 13 0	158 2 0	169 0 9	17 12 0
d. Service postage and telegraph charges	835 7 0	1,703 2 0	1,641 8 3	1,201 13 3
e. Sundries	421 12 3	357 5 0	537 7 0	286 4 3
Total, C.—IV	1,904 15 3	2,366 1 0	2,916 4 0	2,333 5 6
V.—Establishment charges recoverable from other Governments, Departments, etc.—			R. D. 3,000 0 0 Ex. 9,000 0 0	
(a) Deduct—Amount recoverable from Raisingpur Estate on account of pay of Ranger, etc.	.....	.....	1,470 0 0	.....
Total, V	.....	.....	13,470 0 0	.....
TOTAL C.—ESTABLISHMENTS	37,743 2 3	84,319 11 0	59,714 8 0	66,272 5 6
Total, 10, Forest	37,840 13 0	95,646 0 0	96,035 5 9	79,847 1 0
Surplus or Deficit	-35,444 11 0	+95 8 6	+1,11,303 3 3	+6,735 3 0

of the different Divisions for the financial year 1940-41—contd.

Poona Division	Kolaba Division	Satara Division	Working Plaza Division, N. C. and C. C.	Total for the year 1940-41
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
45,450 13 0	63,784 11 0	32,245 6 0	5,443 13 0	2,56,001 8 0
10,266 0 0	11,163 8 0	8,248 15 0	1,573 14 0	68,707 8 0
781 7 0	501 5 0	49 12 0	271 13 0	3,510 0 0
3,129 4 0	7,671 6 0	3,570 15 0	577 0 0	32,312 1 0
59,657 8 0	83,330 14 0	44,115 0 0	7,566 8 0	3,80,531 1 0
.....
.....	181 14 0	701 13 0	.....	893 11 0
360 12 0	1,181 3 0	.....	.....	3,840 13 0
8,691 10 0	12,969 10 0	7,154 11 0	2,453 1 0	61,718 14 0
.....	.....	123 10 0	.....	123 10 0
.....
360 12 0	1,181 3 0	.....	.....	3,840 13 0
8,690 10 0	13,161 8 0	7,980 2 0	3,453 1 0	62,736 3 0
.....
262 5 0	430 3 0	214 10 0	6 11 0	1,668 7 0
133 8 9	131 13 6	44 10 6	210 15 0	1,502 7 9
244 10 0	135 8 0	32 7 0	200 13 0	1,249 1 9
1,375 5 0	1,638 12 6	1,200 6 0	153 0 0	9,698 6 0
233 10 6	278 15 0	147 15 6	103 2 8	2,836 9 0
2,251 7 3	2,633 4 0	1,633 1 0	671 9 6	10,944 15 6
.....
.....	.....	.....	.....	12,000 0 0
.....	.....	.....	.....	1,470 0 0
.....	.....	.....	.....	-13,470 0 0
83,466 8 3	1,12,672 0 0	56,862 2 0	20,016 13 6	5,18,067 2 6
94,166 4 6	1,32,285 5 8	72,360 11 11	30,429 11 0	6,28,619 5 7
+11,951 13 6	+13,375 4 3	-21,788 2 11	-20,418 10 0	+65,701 8 3

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Kanara Northern Division	Kanara Eastern Division
SOUTHERN CIRCLE			
REVENUE—X, FOREST			
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>			
a. Timber	6,34,569 6 3	22,579 15 0
b. Firewood and Charcoal	1 6 0	.....
c. Bamboos	733 10 5	.....
d. Sandalwood	1,354 3 2	5,429 3 7
e. Grass and other minor produce
Total, I	6,36,654 10 4	31,309 2 7
<i>II.—Timber and other produce removed from the forest by consumers or purchasers—</i>			
a. Timber	1,93,122 0 0	2,36,588 14 5
b. Firewood and charcoal	8,923 4 4	926 1 8
c. Bamboos	42,582 0 11	7,251 4 6
d. Grazing and fodder grass
e. Other minor produce	1,064 1 5	3,748 0 4
f. Other items
g. Commutation fees
Total, II	2,44,791 6 8	2,49,544 5 0
<i>III.—Drift and waif wood and confiscated forest produce</i>			
Total, III	374 0 0
<i>IV.—Revenue from forests not managed by Government—</i>			
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total, IV
<i>V.—Miscellaneous—</i>			
a. Fines and forfeitures	419 7 0	400 9 0
b. Refunds	10 2 6	2 15 0
c. Other sources	3,155 0 0	46,572 0 2	2,013 6 1
d. Recoveries of Establishment charges
e. Contributions towards leave salaries and passage of officers lent to foreign service
Total, V	3,155 0 0	47,401 9 8	2,416 14 1
Grand Total, Revenue	3,155 0 0	9,28,561 10 8	2,82,644 5 8
Deduct Refunds Ordinary	110 0 0	20 8 0	2,024 4 0
Grazing fees	0 2 0
Net Revenue	3,075 0 0	9,28,531 2 8	2,80,619 15 8
EXPENDITURE—10, FOREST			
B—CONSERVANCY AND WORKS.			
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>			
a. Timber	2,05,351 4 10	19,022 14 9
b. Firewood and charcoal	28 2 0	.....
c. Bamboos	1,489 11 0	1 8 0
d. Sandalwood	275 12 0	1,276 10 3
e. Grass and other minor produce
Total, B-I	2,07,135 13 10	20,301 1 0

of the different Divisions for the financial year 1940-41—contd.

Kanara Western Division	Belgaum Division	Dharwar- Bijapur Division	Working Plans Division, S. C.	Total for the year 1940-41
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
27,362 7 8	3,976 14 0	1,176 12 0	.....	6,89,565 7 5
.....	.....	38 8 0	.....	39 14 0
9 15 3	1,334 13 0	22 8 0	.....	2,700 14 8
3 12 0	15,231 5 0	62,058 1 0	.....	87,076 8 9
1,656 3 10	1 4 8 0	.....	.....	1,820 9 10
29,032 6 9	21,357 6 0	63,235 13 0	.....	7,81,693 6 8
1,25,768 13 8	27,567 9 8	18,076 9 0	.....	6,82,523 14 10
66,016 15 8	70,144 7 0	67,541 12 6	.....	2,12,652 9 2
1,287 7 5	16,701 0 3	5,499 11 0	.....	73,451 8 1
21 14 0	355 5 0	318 5 0	.....	638 14 0
1,785 12 8	10,199 5 9	13,245 0 0	.....	30,040 7 2
.....
.....
1,95,955 15 5	1,53,368 1 8	1,04,877 8 6	.....	9,42,362 5 3
42 0 0	.....	5 8 0	.....	421 8 0
42 0 0	.....	5 8 0	.....	421 8 0
.....
.....
.....
74 10 9	181 8 0	241 8 0	.....	1,317 10 9
21 7 2	3 7 0	127 1 0	19 6 0	184 6 8
4,171 6 10	17,919 10 3	4,096 15 6	4 0 0	77,762 6 10
.....
.....	1 1 0	4 7 4 0	.....	408 5 0
4,267 8 9	17,505 10 3	4,872 12 6	23 0 0	70,072 13 3
2,29,322 14 11	1,94,151 1 11	1,72,851 10 0	23 6 0	18,11,069 1 2
78 10 0	1,267 1 0	217 8 0	5 8 0	3,723 7 0
.....	14 0 0	.....	.....	14 2 0
2,20,244 4 11	1,92,500 0 11	1,72,634 2 0	17 14 0	18,07,322 6 2
48,318 11 1	6,304 11 0	643 2 0	.....	2,79,700 11 8
.....	.....	26 9 0	.....	54 11 0
1 0 0	3,171 7 9	.....	.....	4,884 10 9
13 11 0	3,161 10 10	11,783 9 11	.....	10,511 6 0
3,097 14 9	.....	.....	.....	3,097 14 9
51,431 4 10	12,697 13 7	12,436 4 11	.....	3,04,012 16 2

FORM NO. 68.—*Summary of Revenue and Expenditure*

Budget Head	Direction	Kanara Northern Division	Kanara Eastern Division
EXPENDITURE—contd.			
B.—CONSERVANCY AND WORKS—contd.			
<i>II.—Timber and other produce removed from the forests by consumers or purchasers</i>			
	Rs. a. p.	Rs. a. p.	Rs. a. p.
	.....	541 10 0	818 0 0
Total, B-II ... ..	.....	541 10 0	818 0 0
<i>III.—Live Stock, Stores, Tools and Plant—</i>			
<i>a. Purchase of cattle</i> ... ..	.....	.....	.....
<i>b. Feed and upkeep of cattle</i> ... ..	.....	53 0 0	.....
<i>c. Purchase of stores, tools and plant.</i>	92 6 0	3,348 3 0	349 0 0
<i>d. Custom Duty</i> ... ..	.....	.....	.....
Total, B-III	92 6 0	3,398 3 0	349 0 0
<i>IV.—Communications and Buildings—</i>			
<i>a. Railways and Tramways</i> ... ..	.....	40,889 10 0	.....
<i>b. Roads and bridges (other than those in connection with Railways and Tramways)</i> ... ..	.....	28,531 13 2	5,274 12 6
<i>c. Buildings</i> ... ..	.....	7,274 4 8	1,219 13 9
<i>d. Other works</i> ... ..	.....	3,114 2 6	338 0 6
Total, B-IV ... ..	.....	74,809 14 4	6,832 10 9
<i>V.—Organization, Improvement and Extension of Forests—</i>			
<i>a. Demarcation</i> ... ..	.....	.....	115 5 0
<i>b. Forest Settlement</i> ... ..	.....	.....	.....
<i>c. Surveys</i> ... ..	.....	.....	.....
<i>d. Working Plans</i> ... ..	.....	.....	159 8 0
<i>e. Plantations</i> ... ..	.....	.....	.....
<i>f. Reproduction</i> ... ..	.....	15,183 2 5	10,557 4 0
<i>g. Fire protection</i> ... ..	.....	3,639 4 6	3,952 7 0
<i>h. Other works</i> ... ..	.....	325 10 0	33 0 0
Total B-V ... ..	.....	19,154 0 11	14,817 8 0
<i>VI.—Miscellaneous—</i>			
<i>a. Rent of leased forests and payments to shareholders in forests managed by Government</i> ... ..	.....	.....	.....
<i>b. Law charges</i> ... ..	.....	.....	.....
<i>c. Grain compensation allowance</i> ... ..	.....	.....	.....
<i>d. Clothing</i> ... ..	.....	943 13 0	1,069 0 0
<i>e. Famine fodder charges</i> ... ..	.....	.....	.....
<i>f. Other charges</i> ... ..	.....	260 1 0	653 8 0
Total, B-VI ... ..	.....	1,203 14 0	1,722 8 0
<i>VII.—Suspense—</i>			
<i>a. Work advances</i> ... ..	.....	.....	.....
Total, B-VII ... ..	.....	.....	.....
<i>VIII. Demarcation of boundaries (between British territory and Indian States)</i>			
	.....	.....	106 0 0
Total, B-Conservancy and Works	92 6 0	3,05,743 8 1	44,946 11 9
C.—ESTABLISHMENTS			
<i>I.—Pay of Officers—</i>			
<i>a. Conservator Charged</i>	25,500 0 0	.....	.....
<i>b. Superior Officers plus personal and special pay</i> ... ..	.....	5,323 8 0	18,005 6 0
{ Voted	2,552 0 0	7,727 14 0	2,108 5 0
{ Charged	34 13 0	221 12 0	.....
<i>c. Leave Salary</i> ... ..	.....	24 5 0	.....
<i>Deduct—Recoveries on account of family allotment of officers (charged).</i> ... ..	.....	.....	.....
Total, I	25,834 13 0	5,546 4 0	18,005 6 0
{ Voted	2,552 0 0	7,752 3 0	2,108 5 0

of the different Divisions for the financial year 1940-41—contd.

Kanara Western Division	Belgaum Division	Dharwar- Bijapur Division	Working Plans Division, S. C.	Total for the year 1940-41
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
301 9 0	808 0 0	343 10 6	.....	2,513 6 6
301 9 0	808 9 0	343 10 6	.....	2,513 6 6
.....	.....	.....	.....	50 0 0
335 15 0	94 14 6	990 11 0	139 14 6	5,430 0 0
.....	.....	.....	.....	5,480 0 0
.....	.....	.....	.....	40,380 10 0
5,933 10 3	246 14 0	3,969 0 0	.....	38,956 1 11
6,095 12 1	1,243 13 1	1,251 7 0	.....	13,985 2 7
339 7 6	97 14 0	49 10 0	.....	3,933 2 6
8,278 13 10	1,583 9 1	5,261 1 0	.....	96,271 1 0
.....	.....	.....	.....	617 8 0
206 6 0	264 5 0	61 8 0	.....	.....
.....
.....	.....	.....	3,932 7 0	4,151 15 0
.....	.....	.....	.....	71 0 0
6,689 14 11	2,475 6 6	737 9 0	.....	35,661 4 10
791 11 6	1,673 13 0	480 13 0	.....	10,528 1 0
11 0 0	.....	246 10 0	.....	617 4 0
7,690 0 5	4,416 8 6	1,507 8 0	3,932 7 0	51,477 0 13
.....
.....
1,699 10 0	2,437 7 0	1,738 2 6	14 7 6	7,992 8 0
298 9 4	215 11 6	249 14 5	.....	1,637 13 3
1,998 3 4	2,653 2 6	2,018 0 11	14 7 6	9,610 4 3
.....
.....
259 13 0	203 10 6	.....	.....	509 7 6
70,364 11 5	22,463 3 8	22,673 4 4	4,156 13 0	4,70,440 10 3
.....	.....	.....	.....	25,800 0 0
5,545 8 0	15,415 5 0	15,067 12 0	9,615 5 0	63,572 7 0
4,326 12 0	.....	3,225 13 0	.....	19,940 12 0
.....	.....	.....	.....	356 9 0
.....	.....	.....	.....	24 5 0
.....	-2,060 8 0	.....	.....	-2,060 8 0
5,545 3 0	15,415 5 0	15,067 12 0	9,615 5 0	93,929 0 0
4,326 12 0	-2,060 8 0	3,225 13 0	.....	-2,060 8 0
.....	.....	.....	.....	19,925 1 0

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Kanara Northern Division	Kanara Eastern Division	
		Rs. a. p.	Rs. a. p.	
EXPENDITURE—concl'd.				
C.—ESTABLISHMENTS—cont'd.				
II.—Pay of Establishment—				
a. Subordinate Forest and Depot Establishments plus personal and special pay	1,600 0 0	61,793 12 0	48,610 5 0	
b. Office Establishments plus personal and special pay	12,654 3 0	13,431 4 0	12,323 2 0	
c. Proficiency allowance	113 0 0	.....	.....
d. Temporary Establishment plus special pay	542 7 0	794 2 0	740 5 0	
e. Leave Salary	357 10 0	5,907 10 0	4,430 1 0	
Total, II	15,197 13 0	82,806 12 0	66,993 13 0	
III.—Allowances, Honoraria, etc.—				
a. Compensatory allow- } Charged .....	.....	.....	.....
ances } Voted .....	.....	.....	.....
b. Travelling allow- } Charged	2,138 15 0	606 13 0	3,239 10 0	
ances } Voted	2,766 1 0	10,988 15 0	8,653 2 0	
c. Plague allowance .....	.....	.....	.....
d. House rent allowance .....	.....	.....	.....
e. Forest Training .....	.....	.....	.....
f. Grain compensation .....	.....	.....	.....
g. Cost of passages granted under the Superior Service Rules, 1924—Charged .....	.....	1,108 2 8	.....
h. Payments on account of Medical treatment of British Officers of the "Superior Civil service" .....	.....	.....	.....
Total, III .....	.....	.....	.....
	{ Charged	2,138 15 0	1,834 15 8	2,239 10 0
	{ Voted	2,766 1 0	10,988 15 0	8,653 2 0
IV.—Contingencies—				
a. Stationery	26 3 0	341 5 0	253 11 0	
b. Carriage of tents and records	405 3 0	54 12 0	225 0 0	
c. Rents, rates and taxes	1,050 0 0	21 0 0	5 13 9	
d. Service postage and telegram charges	1,799 14 6	1,695 5 0	1,719 14 6	
e. Sundries	520 15 6	503 6 6	983 15 6	
Total, IV	3,582 4 0	2,625 12 6	2,628 6 9	
V.—ESTABLISHMENT CHARGES RECOVERABLE FROM OTHER GOVERNMENTS DEPARTMENTS, ETC.—				
Deduct—				
a. Establishment charges payable to Central Government .....	.....	.....	.....
Deduct—establishment charges recoverable from contractors, etc. on account of pay of guards, etc. .....	.....	.....	.....
Total, V .....	.....	.....	.....
TOTAL, C—ESTABLISHMENTS	52,321 14 0	1,11,003 14 2	99,928 10 9	
F.—LOSS OR GAIN BY EXCHANGE .....	.....	+2 0 5	.....
TOTAL 10, FOREST	52,414 4 0	4,17,349 6 9	1,44,575 5 6	
SURPLUS OR DEFICIT	-49,339 4 0	+5,11,481 11 11	+1,35,944 9 3	

of the different Divisions for the financial year 1940-41—contd.

Kanara Western Division	Belgaum Division	Dharwar- Bijapur Division	Working Plans Division, S. C.	Total for the year 1940-41
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
60,827 9 0	58,444 15 0	49,866 7 0	3,392 5 0	2,94,365 5 0
14,339 10 0	10,880 5 0	10,913 0 0	1,451 10 0	76,993 2 0
.....	120 0 0	.....	.....	233 9 0
963 6 0	54 6 0	355 6 0	419 9 0	3,869 9 0
6,079 13 0	5,771 7 0	4,398 15 0	376 6 0	27,341 14 0
82,210 6 0	75,271 1 0	65,533 12 0	5,639 14 0	3,92,803 7 0
.....	93 9 0	65 3 0	.....	158 12 0
899 13 0	1,986 2 0	1,801 8 0	1,092 2 0	10,824 15 0
10,591 12 0	8,082 5 0	9,311 7 0	1,700 12 0	52,094 6 0
.....
.....
.....
.....	1,409 8 11	.....	.....	2,577 11 7
.....
599 13 0	3,355 10 11	1,831 8 0	1,092 2 0	13,402 10 7
10,591 12 0	8,175 14 0	9,376 10 0	1,700 12 0	52,253 2 0
361 14 0	302 6 0	313 0 0	8 10 0	1,612 1 0
216 12 0	215 3 8	254 11 0	342 8 0	7,707 1 8
79 14 0	105 0 0	303 6 0	.....	1,554 1 9
1,800 7 3	1,098 4 9	2,000 4 9	196 5 0	10,340 10 9
449 15 0	378 7 9	533 0 0	113 10 6	2,888 6 9
2,905 14 3	4,102 6 2	3,445 5 9	661 4 6	18,202 5 11
.....
.....
.....
1,06,782 14 3	1,04,360 5 1	99,048 12 9	18,709 5 6	5,92,555 10 6
.....	-2,000 8 0	.....	.....	-2,000 8 0
.....	+2 7 2	.....	.....	+4 7 8
1,77,147 7 6	1,24,765 7 11	1,21,722 1 1	22,866 2 6	10,60,940 4 5
+52,096 13 3	+58,134 9 0	+50,912 0 11	-22,548 4 6	+7,46,382 3 9

FORM NO. 63.—*Summary of Revenue and Expenditure of the*

Budget Head.	Forest Engineering Division	Silvicultural Division
REVENUE—10, FOREST.		
I.—Timber and other produce removed from the forest by Government Agency—		
a. Timber	.....	.....
b. Firewood and charcoal	.....	.....
c. Bamboos	.....	.....
d. Sandalwood	.....	.....
e. Grass and other minor produce	.....	.....
Total, I	.....	.....
II.—Timber and other produce removed from the forest by consumers or purchasers—		
a. Timber	.....	.....
b. Firewood and charcoal	.....	.....
c. Bamboos	.....	.....
d. Grazing and fodder grass	.....	.....
e. Other minor produce	.....	.....
f. Other items	.....	.....
g. Commutation fees	.....	.....
Total, II	.....	.....
III.—Drift and waif wood and confiscated forest produce	.....	.....
Total, III	.....	.....
IV.—Revenue from forest not managed by Government—		
a. Duty on foreign timber and other forest produce	.....	.....
b. Revenue from shared and private forests	.....	.....
Total, IV	.....	.....
V.—Miscellaneous—		
a. Fines and forfeitures	.....	.....
b. Refunds	.....	0 2 0
c. Other sources	.....	104 2 8
d. Recovery of establishment charges	.....	.....
e. Contributions towards leave salaries and passage of officers lent to foreign service	.....	.....
Total, V	104 4 8	.....
VI Receipts in England	.....	.....
VII Loss or gain in exchange	.....	.....
GRAND TOTAL, REVENUE	104 4 8	.....
Deduct—Refunds	.....	.....
NET REVENUE	104 4 8	.....

Different Divisions for the financial year 1940-41—contd.

Utilization Division	General Direction Division	Total of all Circles	Grand total, Province of Bombay
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	8,27,591 2 2	8,27,591 2 2
.....	.....	25,301 8 6	25,301 8 6
.....	.....	2,723 14 2	2,723 14 2
.....	.....	87,458 6 3	87,458 6 3
.....	.....	2,863 11 4	2,863 11 4
.....	.....	9,45,938 10 5	9,45,938 10 5
.....	.....	25,62,383 14 11	25,62,383 14 11
.....	.....	2,92,894 15 5	2,92,894 15 5
.....	.....	97,050 11 7	97,050 11 7
.....	.....	1,49,348 4 0	1,49,348 4 0
.....	.....	98,852 1 6	98,852 1 6
.....
.....
.....	.....	32,00,529 15 5	32,00,529 15 5
.....	.....	1,992 12 0	1,992 12 0
.....	.....	1,992 12 0	1,992 12 0
.....	.....	6,473 6 0	6,473 6 0
.....	.....	7,447 14 8	7,447 14 8
.....	.....	13,921 4 8	13,921 4 8
.....	.....	25,461 3 9	25,461 3 9
.....	.....	532 13 11	532 13 11
5 1 0	473 3 0	2,65,142 12 4	2,65,725 8 0
.....	.....	4,433 15 6	4,433 15 6
.....	14,733 2 0	487 0 0	15,220 2 0
5 1 0	15,206 10 0	2,96,348 11 6	3,11,674 11 2
.....	7 3 6	46 0 0	53 3 6
.....	0 0 3	0 1 3	0 1 6
5 1 0	15,213 13 9	44,58,767 7 3	44,74,110 10 8
.....	.....	20,342 5 3	20,342 5 3
5 1 0	15,213 13 9	44,38,445 2 0	44,53,768 5 5

FORM No. 68.—Summary of Revenue and Expenditure of the

Budget Head	Forest Engineering Division	Silvicultural Division
	Rs. a. p.	Rs. a. p.
EXPENDITURE—10. FOREST.		
B.—CONSERVANCY AND WORKS.		
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>		
a. Timber	10,527 13 0	.....
b. Firewood and charcoal	.....	.....
c. Bamboos	4,281 2 0	.....
d. Sandalwood	.....	.....
e. Grass and other minor produce	.....	.....
Total, B-I	14,808 15 0	.....
<i>II.—Timber and other produce removed from the forests by consumers or purchasers</i>		

<i>Deduct—Establishment charges recoverable from contractors, etc., on account of pay of Depot officers, etc.</i>		

Total, B-II	.....	.....
<i>III.—Live-stock, store, tools and plant—</i>		
a. Purchase of cattle	.....	.....
b. Feed and upkeep of cattle	.....	.....
c. Purchase of stores, tools and plant	2,335 2 0	369 12 0
d. Customs duty	.....	.....
Total, B-III	2,335 2 0	369 12 0
<i>IV.—Communications and Buildings—</i>		
a. Railways and Tramways	.....	.....
b. Roads and bridges (other than those in connection with Railways and Tramways)	.....	.....
c. Buildings	17 14 0	.....
d. Other works	82 15 8	.....
Total, B-IV	100 13 8	.....
<i>V.—Organization, improvement and extension of forests—</i>		
a. Demarcation	.....	.....
b. Forest Settlement	.....	.....
c. Surveys	.....	.....
d. Working Plans	.....	.....
e. Plantations	.....	.....
f. Reproduction	.....	.....
g. Fire protection	.....	.....
h. Other works	.....	.....
Total, B-V	.....	.....

different Divisions for the financial year 1940-41—contd.

Utilization Division	General Direction Division	Total of all Circles	Grand total, Province of Bombay
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	3,52,804 15 9	3,63,332 12 9
.....	7,401 7 3	7,401 7 3
.....	4,057 0 9	8,939 2 9
.....	16,563 9 0	16,563 9 0
.....	3,077 14 9	3,077 14 9
.....	3,54,524 15 6	3,69,338 14 6
.....	84,548 0 1	84,548 0 1
.....
.....	84,548 0 1	84,548 0 1
.....
.....	50 0 0	50 0 0
479 8 0	8,576 15 9	11,761 5 9
.....
479 8 0	8,426 15 9	11,811 5 9
.....	40,389 10 0	40,389 10 0
.....	60,729 6 11	60,728 6 11
.....	34,584 4 4	34,502 2 4
.....	5,201 6 0	5,284 5 8
.....	1,41,913 11 3	1,41,901 8 11
.....	3,118 0 3	3,118 0 3
.....
.....	15 8 6	15 8 6
.....	4,153 7 0	4,153 7 0
.....	3,359 9 9	3,339 9 9
.....	65,068 12 1	65,068 12 1
.....	30,717 12 3	30,717 12 3
.....	5,198 8 6	5,198 8 6
.....	1,11,661 10 4	1,11,661 10 4

FORM No. 68.—Summary of Revenue and Expenditure of the

Budget Head	Forest Engineering Division	Silvicultural Division
EXPENDITURE—10, FOREST—contd.	Rs. a. p.	Rs. a. p.
B.—CONSERVANCY AND WORKS—contd.		
VI.—Miscellaneous—		
a. Rent of leased forests and payments to shareholders in forests managed by Government ... ..	.....	.....
b. Law charges ... ..	.....	.....
c. Grain Compensation allowance ... ..	.....	.....
d. Clothing	91 15 8	48 11 0
e. Famine Fodder charges ... ..	.....	.....
f. Other charges	307 5 0	1,056 14 9
Total, B-VI ...	329 4 6	1,105 9 9
VII.—Suspense—		
a. Work advances ... ..	.....	.....
Total, B-VII ...	.....	.....
VIII.—Demarcation of boundaries (between British territory and Indian States). ... ..	.....	.....
IX. Deduct—Establishment charges recoverable from contractor on account of pay of depôt-officers, etc. ... ..	.....	.....
TOTAL, B—CONSERVANCY AND WORKS ...	17,574 3 2	1,475 5 9
C—ESTABLISHMENTS.		
A—GENERAL DIRECTION.		
I.—Pay of Officers—		
a. Chief Conservator or Conservators ... ..	.....	.....
b. Superior Officers plus Personal and special pay. { Charged ...	16,200 0 0	17,548 6 0
{ Voted ...	.....	.....
c. Personal Assistant to the Chief Conservator plus special pay (voted) ...	.....	.....
{ Charged ...	.....	.....
{ Voted ...	.....	.....
d. Leave Salary ... ..	.....	.....
Deduct—Recovery on account of family allotment of officers—charged. ... ..	.....	.....
Total, I ...	16,200 0 0	17,548 6 0
II.—Pay of Establishment—		
a. Subordinate Forest and Depôt Establishment plus special and personal pay	4,108 3 0	1,937 11 0
b. Office Establishment plus special and personal pay ...	10,001 11 0	2,132 8 0
a. Office Establishment ... ..	.....	.....
b. Proficiency allowance ... ..	.....	.....
c. Temporary Establishment plus special pay ... ..	.....	726 10 0
d. Leave Salary	376 1 0	800 12 0
Total, II ...	14,485 15 0	5,517 9 0

different Divisions for the financial year 1940-41--contd.

Utilization Division	General Direction Division	Total of all Circles	Grand total, Province of Bombay
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	12,205 6 1	12,205 6 1
.....	.....	59 3 0	59 3 0
.....
.....	1 3 0	22,808 0 6	32,949 14 0
.....	.....	48 1 6	48 1 6
.....	180 0 0	2,219 4 0	3,763 7 9
.....	181 3 0	47,429 15 1	49,046 0 4
.....
.....
.....	.....	629 0 6	629 0 6
.....	.....	-187 2 0	-187 2 0
479 8 0	181 3 0	7,78,137 2 6	7,97,847 6 5
.....
.....	33,000 0 0	74,793 7 0	1,07,793 7 0
.....	.....	97,265 11 0	1,31,014 1 0
3,936 12 0	3,302 0 0	1,02,575 3 0	1,11,113 15 0
.....
.....	3,225 9 0	1,120 1 0	4,345 1 0
.....	4,591 6 0	2,840 6 0	7,431 12 0
.....	.....	-4,348 8 0	-4,348 8 0
.....	86,245 0 0	1,68,830 11 0	2,38,504 1 0
3,936 12 0	7,303 6 0	1,06,716 9 0	1,18,545 11 0
.....
1,060 0 0	.....	8,85,763 4 0	8,93,879 2 0
2,240 6 0	13,083 2 0	2,14,866 14 0	2,41,744 9 0
.....
.....	.....	233 9 0	233 9 0
.....
4 5 0	.....	13,069 4 0	13,793 3 0
.....
19 9 0	1,389 7 0	93,969 10 0	96,646 7 0
3,324 4 0	14,472 9 0	12,07,256 9 0	12,45,195 14 0

FORM No. 63.—*Summary of Revenue and Expenditure of the*

Budget Head		Forest Engineering Division	Silvicultural Division
EXPENDITURE—10. FOREST— <i>contd.</i>		Rs. a. p.	Rs. a. p.
<i>C—ESTABLISHMENTS. contd.</i>			
<i>A—GENERAL DIRECTION</i>			
<i>III.—Allowances, Honoraria, etc.—</i>			
a. Compensatory Allowances	... ..	{ Charged ... ..	.....
		{ Voted ... ..	.....
b. Travelling Allowance	... ..	{ Charged	2,933 7 0
		{ Voted	2,271 4 0
c. Plague Allowance (Voted)	... ..	.....	.....
d. House-rent allowance	... ..	{ Charged ... ..	.....
e.		{ Voted ... ..	.....
f. Forest training	... ..	.....	.....
g. Grain compensation	... ..	.....	.....
h. Cost of Passages granted under the Superior Services Rules, 1924 (Charged)	... ..	} 916 12 0	.....
i. Do. do. (Charged)	... ..		.....
j. Payment on account of Medical treatment of British Officers of the "Superior Civil Service"	... ..	.....	.....
	Total, III	{ Charged	3,550 3 0
		{ Voted	2,271 4 0
<i>IV.—Contingencies—</i>			
a. Stationery	... ..	.....	15 2 0
b. { Carriage of tents and records ... ..	... ..	} 472 4 0	432 1 0
{ Other Non-contract contingencies	... ..	
c. Rents, rates and taxes	... ..	.....	50 0 0
d. Service postage and telegraph charges	... ..	.....	525 4 5
e. Sundries	... ..	.....	133 15 8
	Total, IV	.....	1,196 10 2
			554 4 9

different Divisions for the financial year 1940-41—contd.

Utilization Division	General Direction Division	Total of all Circles	Grand total, Province of Bombay
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
800 0 0	300 0 0	3,582 0 0	4,652 0 0
.....	3,527 13 0	19,427 7 0	23,104 2 0
3,317 12 0	1,023 11 0	1,86,265 6 6	1,94,455 14 6
.....
.....
.....	.....	123 10 0	123 10 0
.....	.....	590 8 6	590 8 6
.....
.....	.....	3,345 1 10	4,261 13 10
.....
.....	3,527 13 0	22,772 8 10	32,365 15 10
4,117 12 0	1,328 11 0	1,00,561 9 0	1,03,852 1 0
.....
5 7 0	.....	5,373 14 9	5,400 12 9
30 6 0	972 13 0	6,211 6 8	8,118 14 8
21 0 0	.....	3,559 1 8	3,573 15 8
367 13 6	1,276 6 3	31,173 11 3	33,503 4 3
100 15 0	.....	8,978 0 3	9,239 14 11
4,651 9 6	2,219 3 3	55,196 2 7	59,941 14 3

FORM No. 68.—Summary of Revenue and Expenditure of the

Budget Head	Forest Engineering Division	Silvicultural Division
	Rs. s. p.	Rs. s. p.
EXPENDITURE—contd.		
V.—Establishment charges recoverable from other Governments, Departments, etc.—	.....	.....
a { Deduct amount recoverable from Raistingpur Estate on account of pay of Rangers, etc. ....	.....	.....
{ Establishment charges payable to Central Government ...	.....	.....
Add—Share of Establishment charges transferred from 40—Agriculture ... ..	.....	.....
Total, V ...	.....	.....
TOTAL { C—ESTABLISHMENTS ...	29,004 0 2	27,788 7 0
{ A—GENERAL DIRECTION... ..	.....	.....
D.—Interest on Capital (Charged) ... ..	.....	.....
E.—Changes in England—		
a. Leave salaries and Deputation pay—		
(ii) Expenditure of the High Commissioner for India (Charged) ... ..	.....	.....
b. Sterling Overseas pay—		
(ii) Expenditure of the High Commissioner for India (Charged) ... ..	.....	.....
a. Other charges—		
(iii) Allocations of pay of officers (Charged) ... ..	.....	.....
(iv) Cost of Publications (Voted) ... ..	.....	.....
Total, E { Charged ...	.....	.....
{ Voted ... ..	.....	.....
F.—Loss or gain by exchange	{ Charged ... ..	.....
	{ Voted ... ..	.....
Total 10. FOREST ...	55,578 3 4	29,263 13 6
GRAND TOTAL OF ALL EXPENDITURE ...	55,578 3 4	29,263 13 6
Surplus or deficit ...	-55,473 14 8	-29,263 13 6

different Divisions for the financial year 1940-41—concl'd.

Utilization Division.	General Direction Division	Total of all Circles	Grand total, Province of Bombay
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	-12,000 0 0	-12,000 0 0
.....	.....	-1,470 0 0	-1,470 0 0
.....	3,800 0 0	.....	3,800 0 0
.....	11,762 8 0	.....	11,762 8 0
.....	15,562 8 0	-13,470 0 0	2,092 8 0
11,844 5 6	300 0 0	17,37,902 1 5	16,95,798 1 1
.....	80,956 2 2	.....
.....	33,338 0 0	.....	33,338 0 0
.....	41,825 7 1	.....	41,825 7 1
.....	34,428 4 7	.....	34,428 4 7
.....	4,333 5 4	.....	4,333 5 4
.....	26 0 10	.....	26 0 10
.....	80,598 1 0	.....	80,598 1 0
.....	26 0 10	.....	26 0 10
.....	140 2 6	5 13 0	145 15 6
.....	0 0 9	.....	0 0 9
12,323 13 6	1,95,542 10 4	25,16,045 0 11	28,08,753 0 7
12,323 13 6	1,95,542 10 4	25,16,045 0 11	28,08,753 9 7
-12,318 12 6	-1,80,323 12 7	19,23,400 1 1	16,45,014 11 10

FORM No. 69.—Revenue received and

Division	Particulars	Outstandings at commencement of year	Value of Sales and other Revenue during year
1	2	3	4
NORTHERN CIRCLE Direction	Timber and other forest produce.	Rs. a. p.	Rs. a. p. 1,904 9 0
Panch Mahals	Do.	11,905 10 1	2,41,645 10 0
North Thana	Do.	9,684 14 6	6,93,639 4 10
East do.	Do.	30,535 13 3	3,14,272 14 10
West do.	Do.	8,053 10 0	3,80,444 4 4
East Nasik	Do.	5,153 6 3	65,551 9 0
West do.	Do.	4,245 5 11	1,01,171 13 8
Surat Sub-Division	Do.	55 12 0	1,59,577 3 9
	Total, Northern Circle...	69,094 8 0	19,64,337 4 5
CENTRAL CIRCLE			
East Khandesh	Timber and other produce and revenue from various sources.	1,933 0 0	96,324 6 6
West do.	Do.	1,359 14 0	2,08,022 10 3
West Khandesh Sub-Division.	Do.	.....	93,081 7 9
Poona	Do.	1,115 10 8	1,05,200 0 10
Kolaba	Do.	371 10 0	1,51,330 0 4
Satara	Do.	6,027 4 0	50,552 10 0
Working Plans	Do.	.....	11 1 0
Direction	Do.	.....	2,516 1 3
	Total, Central Circle...	10,507 6 8	7,07,158 5 11
SOUTHERN CIRCLE			
Direction	Various sources	.....	3,155 0 0
Kanara, N. D.	Various sources, timber and other forest produce.	1,10,141 4 0	9,97,095 13 11
“ E. D.	Do.	26,918 15 10	2,97,776 4 6
“ W. D.	Do.	37,154 12 8	2,39,848 8 10
Belgaum Division	Do.	2,769 15 11	1,96,496 10 10
Dharwar-Bijapur	Do.	3,413 10 0	1,71,030 6 0
Working Plans, Southern Circle.	Various sources	.....	23 6 0
	Total, Southern Circle ...	1,89,398 10 5	19,00,056 2 1
	Grand Total, Province of Bombay.	2,58,300 9 1	45,77,611 22 5

Outstandings on account of Revenue during 1940-41.

Total		Amount realized during year		Balance due to the Department at end of year		Remarks
5		6		7		8
Rs.	a. p.	Rs.	a. p.	Rs.	a. p.	
1,904	9 0			.....	
2,55,951	4 1	2,47,494	1 6			
		(a)	167 8 0			
		(b)	163 3 0	9,031	7 7	
		(c)	95 0 0			
7,03,374	3 4	6,50,954	13 10			
		(a)	1,019 4 9	17,873	3 9	
		(b)	3,526 13 10			
		(c)	3,18,909 0 10			
3,44,558	12 1	60	0 0	26,192	11 3	
		(a)	64 0 0			
		(b)	3,59,467 11 10			
3,88,507	14 4	5,389	7 0	23,635	11 6	
		(a)	25 0 0			
		(b)	70,956 11 3	2,342	10 0	
73,734	15 3	435	10 0			
		(a)	97,913 14 0			
1,05,417	3 7	444	13 9	6,950	3 10	
		(a)	105 4 0			
		(b)	1,59,857 13 9	10	4 0	
1,59,702	14 9	104	13 0			
		(a)				
20,83,481	12 5	19,36,801	12 0	55,026	3 11	
		(a)	7,684 8 6			
		(b)	3,499 1 0			
		(c)	163 3 0			
93,237	6 6	95,749	8 6	2,417	0 0	
		(a)	97 14 0			
		(b)	2,07,218 9 0	776	12 0	
2,09,332	8 3	1,696	7 3			
		(a)	28 12 0			
		(b)	86,583 4 9	4,059	15 0	
93,081	7 9	2,438	4 0			
		(a)	1,06,117 2 0	225	3 0	
1,03,403	11 6	93	6 6			
		(a)	1,45,624 10 4	1,265	10 0	
1,51,731	10 4	5 0 5	6 0			
		(a)	5,054 9 9	5,933	7 0	
66,509	14 0	74	14 0			
		(a)	11 1 0			
11	1 0	2,356	1 3	.....	
2,516	1 3	150	6 0	.....	
		(a)				
7,15,005	12 7	6,91,320	13 10	14,489	15 0	
		(a)	8,923 5 9			
		(b)	26 12 0			
3,185	0 0	3,575	0 6	.....	
		(a)	116 0 0			
		(b)	2,26,821 2 8			
11,16,837	1 11	29	8 0	1,74,146	2 3	
		(a)	13,504 8 9			
		(b)	332 3 0			
		(c)	2 8 0			
		(d)	2,50,119 15 8	38,060	1 0	
3,24,695	4 4	2,091	9 0			
		(a)	4,029 13 8			
		(b)	2,29,244 4 11	47,575	0 6	
2,77,003	5 6	78	10 0			
		(a)	104 13 1			
		(b)	1,62,669 9 11	5,042	0 10	
1,69,260	10 9	1,281	1 0			
		(a)	43 8 0			
		(b)	1,72,634 2 0	1,347	6 0	
1,74,444	0 0	217	8 0			
		(a)	234 12 0			
		(b)	10 4 0			
23	6 0	17	14 0	.....	
		(a)	5 5 0			
		(b)				
20,95,454	12 0	18,07,332	8 2	2,66,141	3 7	
		(a)	2,737 9 0			
		(b)	13,594 8 0			
		(c)	4,511 11 9			
		(d)	237 4 0			
48,46,942	5 6	44,58,445	2 0	3,65,648	5 6	
		(a)	20,342 5 3			
		(b)	19,313 9 0			
		(c)	4,511 11 9			
		(d)	681 3 0			

(a) Refunds.
 (b) Sale cancelled in G. M., R. D., No. 10077-19/33, dated 5th December 1940.
 (c) Errors corrected.
 (d) Written off under proper authority.

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FOREST ADMINISTRATION REPORT OF THE PROVINCE OF BOMBAY FOR THE YEAR 1944-45.

CHAPTER I.

CONSTITUTION OF STATE FORESTS.

(1) ALTERATION IN AREAS.

The changes caused by afforestation and disforestments during the year resulted in a net loss of 27 square miles in the reserved forests in charge of the Forest Department. This loss occurred mainly in the Central Circle where 16 Forest—Settlements aggregating about 25 square miles of reserved forest were disforested and handed over to the Revenue Department for management. The remaining 2 square miles were disforested chiefly in favour of cultivation in the Central and Southern Circles. The total areas of reserved forests in charge of the Forest and Revenue Departments at the close of the year stood at 10,523 and 1,596 square miles respectively. The areas of protected forests in charge of both the Departments remained unchanged i.e. 160 and 595 square miles respectively.

An area of about 4 square miles of reserved forest was transferred from the Poona Division of the Central Circle to the West Thana Division of the Northern Circle.

(2) FOREST SETTLEMENTS.

The total area of reserved forest pending settlements at the commencement of the year was 6 square miles and 349 acres to which were added 45 acres during the year. Out of this 5 acres were finally settled during the year.

An area of 226 acres and 27 gunthas from the Class I Survey Nos. within the forest demarcation line in the Satara Division was acquired at a cost of Rs. 3,060 and this awaits notification under the Forest Act. There was no fresh acquisition of I Class Survey Nos. within the forest demarcation line in the Poona Division.

(3) DEMARCATION.

Six miles of new boundaries were demarcated during the year at a cost of Rs. 253. 22,351 miles of existing boundaries (including those between British territory and Goa and Indian States) were repaired at a cost of Rs. 6,152. The total length of boundaries at the close of the year was 37,110 miles.

(4) FOREST SURVEYS.

No Survey work was done during the year.

The expenditure on the constitution of state forests was Rs. 9,488 against Rs. 7,468 in the previous year.

CHAPTER II.

MANAGEMENT OF STATE FORESTS.

PREPARATION AND CONTROL OF WORKING PLANS.

(a) Preparation of Working Plans.

Most of the Working Plans are due for revision and this work is to be taken up after the war under the Post-War Reconstruction Scheme No. 58 which has been administratively approved by Government. A separate Working Plans Division for the Northern Circle is included under this Scheme (No. 58). This post was however created in advance towards the close of the year and the Divisional Forest Officer, Working Plans, Central Circle, who was holding the posts of Working Plans Division, Northern Circle and the charge of the territorial Sub-Division of West Khandesh in addition, was relieved of these two posts to enable him to give full time to Working Plans work of the Central Circle. Subsequently, however, after the close of the year, a new post of Special Conservator of Forests, Planning, was created and the two Divisional Forest Officers, Working Plans, Northern and Central Circles together with their staffs were placed under the Special Conservator of Forests, Planning.

The 6-Pasture Rotational Grazing Scheme, known as the Wai Scheme, which was introduced in 13 villages of the Wai Round of the Satara District Working Plan as an experimental measure in the year 1943-44 continued in operation. Instead of extending this Scheme as was the original intention a fresh additional rotational grazing scheme, known as the 4-Pasture Rotational Grazing Scheme, was drawn up and introduced in those areas of the Main and Pasture Working Circles of the Satara District Working Plan lying on either side of the M. and S. M. Railway line from Wathar in the North to Karad in the South. This Scheme covers 35 villages and contains certain modifications which introduce improvements on the Wai 6-Pasture Scheme.

The draft Working Plan for the Sirsi-Siddapur sandalwood areas was completed and marking according to new prescriptions was brought into force during the year.

Cent per cent. enumerations of compartments 6, 7, 8 and 9-A-B of Block VII Nersol Slopes were carried out in advance to meet unforeseen urgent demands of the Defence Department.

Statistics for the working of the Kabinadi slopes were collected by the Divisional Forest Officer, Working Plans, Southern Circle, with a view to suggesting modifications necessary in the present scheme of working.

A ten year plantation scheme for the forests of the Ankola Ramanguli Ranges and a 2-year plantation scheme in connection with the rehabilitation of other forests in Kanara Western Division have been approved by the Chief Conservator of Forests, Province of Bombay.

(b) Control of Working Plans.

Prescriptions of Working Plans had again to be deviated from in nearly all Divisions as advance working was again necessary for the production of timber to meet the still heavy demands of the Defence Department and of charcoal and firewood to meet pressing civil and military needs. Some current and arrear coupes remained unsold due mainly to labour and transport difficulties. Some of the

coupes in the West Khandesh Division remained unsold due to the introduction of the condition requiring delivery of firewood at fixed ceiling rates.

Some coupes in Kanara Western Division were withheld from sale and thrown open for exercise of privileges by the public in accordance with Government orders.

In the North Thana Division one arrear coupe in each felling Series of the Revised Working Plan for the Thana Forests was sold along with the coupe of the year and also 2 arrear coupes in each of the Gurcharan Felling Series and the Malki Teak Felling Series. II and III thinnings due under the Revised Working Plan for the Thana Forests had to be postponed in the North Thana Division owing to shortage of labour and transport.

II and III thinnings due under the same working plan had also to be postponed in the West Thana Division partly on account of labour and transport difficulties and partly on account of shortage of staff due to war supply work.

The fuel coupes in the Rajur Range of the West Nasik Division were exploited during the year in accordance with the scheme sanctioned by the Chief Conservator.

In the Southern Circle the planting programme had to be postponed in some places for want of labour.

(2) COMMUNICATIONS AND BUILDING.

(a) Roads and Bridges.

A number of roads and cart tracks have been constructed and maintained by the Forest Department and several new roads have been projected and approved administratively by competent authorities. All these new roads as also others which are considered necessary for tapping valuable forests have been included in Post-War Reconstruction Scheme No. 59 which awaits the approval of Government.

During the year an amount of Rs. 5,194 was spent on new works against Rs. 4,439 spent last year. The amount was spent on improvements over 26 miles of road in the Southern Circle.

1,245 miles of roads and 66 miles of cart tracks and bridle paths were repaired at a total cost of Rs. 67,051 as against 1,227 miles of roads and 67 miles of cart tracks and bridle paths at a cost of Rs. 52,076 in the previous year. Rs. 57,768 were paid to the M. and S. M. Railway for the maintenance of the Alnwar-Dandeli Railway against Rs. 61,039 last year. An amount of Rs. 4,809 out of the grant placed at the disposal of the Collector of West Khandesh was also spent on repairs to roads.

The following Public Works Department roads in the Northern and Southern Circles have been transferred to the Forest Department for maintenance and control in all respects :—

Northern Circle.—(1) Satighat Road—7 miles.

(2) Nanashighat Road—4 miles.

Southern Circle.—(1) Tavargatti-Dandeli Road—13 miles, 7 furlongs and 500 feet.

(2) The section of the Karka-Shamjoida Road—7 miles, 3 furlongs and 160 feet.

In the Southern Circle the Piranwadi-Jamboti and Khanapur-Jamboti roads have been transferred to the Forest Department for maintenance for the duration of the war.

(b) *Buildings.*

The total expenditure on the construction of new works during the year amounted to Rs. 54,805 including a sum of Rs. 31,605 allotted from the Special Development Fund for the construction of quarters for subordinates in malarious localities, against Rs. 32,724 in the previous year. Repairs to existing buildings were carried out at a cost of Rs. 39,066 against Rs. 46,912 last year.

The inspection bungalows at Sawa, Thulghat, Khardi, Ambadi, Parali, Padgha and Kanchad in the Northern Circle and the Lingmaia and Hirda bungalows at Mahabaleswar in the Central Circle and the old Excise Superintendent's bungalow at Khanapur and the Public Works Department Store-houses at Kesrodga and Tavargatti in the Southern Circle were transferred to the Forest Department for maintenance and control.

(c) *Other works.*

The total expenditure on new works and repairs was Rs. 3,539 and Rs. 5,334 respectively against Rs. 111 and Rs. 1,459 last year.

(3) PROTECTION OF FORESTS.

The following table compares the number of forest offences during the year with those of the last year and the average of the past three years.

Class of offence.	1944-45.			Total	Total for 1943-44.	Average for 1941- 42 to 1943-44.
	Northern Circle No.	Central Circle No.	Southern Circle No.				No.
I. Injury to forest by fire.	1,090	1,138	158	2,395	1,348	1,564
II. Unauthorised felling or removal of forest produce.	7,737	5,476	2,169	15,382	14,236	14,649
III. Unauthorised grazing ..	2,624	1,814	208	4,646	5,360	5,543
IV. Other offences ..	1,522	1,361	434	3,317	3,498	3,650
Total for 1944-45 ..	12,982	9,789	2,969	25,740	..	..
Total for 1943-44 ..	12,531	9,135	2,476	..	24,442	..
Average for 1941-42 1943-44.	12,831	10,061	2,574	..	..	25,406

The total number of offences detected during the year is an increase over the number of the previous year, and the average of the past three years. The causes of increase or decrease under each head are discussed below:—

(I) *Injury by fire and protection from fire.*

Compared with the previous year there is an increase in all Circles both in the number of fires and in the area burnt. This was mainly due to unfavourable weather conditions, inadequate fire tracing along the boundaries of State territories from which fires generally originate, and intentional firing of forests by villagers to facilitate illicit shikar and to get early crops of grass in the following season. In some

places fires originated from military camps. Timber left behind by contractors in contract areas provided material for the spread of fires in high wind, tending control difficult and expensive.

800 acres of plantations were burnt in Kanara Eastern Division against 113 acres in the previous year.

(II) *Unauthorised felling and removal of forest produce.*

There is an increase of 1,146 cases (15,382--14,236). All Circles record increases which are attributed to the high prices received for timber and firewood.

(III) *Unauthorised grazing and protection from cattle.*

There is a decrease of 714 cases (5,360--4,646), which is shared by all the Circles. The decrease is attributed to vigilance of forest subordinates and to the timely rains and sales of grass coupes and kurans in the Central Circle.

The areas open and closed to grazing were :—

	Squares miles.	Percentage.
Closed to all animals for the whole year	912	7.1
Closed to all animals for the part of the year	61	0.5
Open to all animals for the whole year	4,688	36.4
Open to all animals except browsers for the whole year	6,930	53.8
Open to all animals except browsers for part of the year	281	2.2
	12,872*	100.0

* Excludes 2 square miles submerged in the Bhandardam lake.

The area open to grazing for horned cattle throughout the year was 90.2 per cent.

The total number of cattle admitted to graze was 1,860,279 against 1,909,885 in the previous year. These figures are however hypothetical as it has not been possible for some Divisional Forest Officers to get accurate figures from village officers who are now issuing grazing permits. The decrease occurs mainly in the Southern Circle and this is attributed to rinderpest.

The total grazing fees collected amounted to Rs. 14,021 against Rs. 12,098 in the previous year.

(IV) *Other Offences.*

There is a decrease of 181 cases under this head. These offences consist of breaches of transit rules, encroachments on forest lands, illicit shikar etc. No particular reasons can be attributed to the variations in the number of offences under this head.

In all 129 cases of the year were taken to Court. Out of 1,044 cases (129 new and 915 old) 613 were decided in favour of Government and 9 against. The percentage of successful cases was 98·5.

During the year 21,153 cases were disposed of. Of these 20,895 were compounded, the amount of compensation recovered being Rs. 1,50,575 or Rs. 7·2 per case against Rs. 5·9 per case in the previous year.

(4) PROTECTION AGAINST INJURIES FROM NATURAL CAUSES.

(1) Vegetable pests.

(i) Creepers and climbers were cut as usual by subordinates or through contractors wherever possible.

(ii) *Lantana*.—The growth of lantana continued to increase in the forests of the Poona and Satara Divisions. *Lantana* and *Shigekai* (*Acacia concinna*) are reported to be doing a lot of harm to young plantations in the Belgaum Division.

(iii) *Loranthus*.—This pest though was mostly confined to the Kumta and Honavar Ranges is appearing in all the teak plantations of Kanara Western Division. The older plantations in Nagargali Range of the Belgaum Division are also being affected by the pest. The method of cutting off and burning the affected branches cannot be made fully effective owing to the difficulty in climbing many of the trees. The pest therefore soon reappears on the cut branches.

(iv) *Dowga bamboos*.—Suppression of teak by *Dowga* was noticed in the older plantations of Shirol and Mandurli in the Virnoli Range of the Kanara Northern Division and also in the plantations of Nagargali Range of the Belgaum Division. Drastic cutting of over hanging bamboos appears to be the only beneficial way of removing suppression.

In most of the compartments of Series III Kulgi Range of the Kanara Northern Division *Dendrocalamus strictus* flowered to an appreciable degree. Seeding and sporadic flowering was also noticed in Block II Teack Pole and Series XIX High Forest of Nagargali Range in Belgaum Division.

Prickly pear which had practically disappeared from the Dharwar-Bijapur Division is coming in again though not on a serious scale.

(2) Animal Pest.

There was some damage to plantations by monkeys in the Mandvi forests of Surat Sub-Division. *Sambhar*, *Nilgai* and porcupine were also responsible for a certain amount of damage in that Sub-Division. Damage by porcupine was severe in the arid areas of Nagaonbari in the West Khandesh Sub-Division. Elephant, bison, monkeys, *cheetal*, *sambhar*, barking deer, wild pig, rats and porcupine caused usual damage to young plantations in all the Divisions in Southern Circle. Damage by elephants was considerable in the older plantations of Shirol and Mandurli and by bison in the younger plantations at Kavla all in Kanara Northern Division and at Nagargali in Belgaum Division.

A reward of Rs. 1 was offered for each porcupine killed in the plantations of Honavar and Ramanguli Ranges of Kanara Western Division but the concession produced no result except in the Honavar Range where 11 porcupine were killed.

(3) *Insect Pests.*

Teak defoliators made their appearance in some parts of the East Thana Division and Surat Sub-Division in the Northern Circle and in Kanara Northern Division and Belgaum Division in the Southern Circle. The damage done was not significant. The affected teak plants in Kanara Northern Division put on fresh leaves towards the beginning of December. Attacks by borers and beetles in the plantations of Belgaum Division were negligible. Locusts were found destroying young teak seedlings in plantations of Kanara Western Division. Damage by the Ravlook cricket (*Bruchytrypes achatinus*) was negligible and practically all the casuarina (*Casuarina equisetifolia*) plantations in Karwar and Honavar Ranges of the Kanara Western Division were free from the pest this year. Casuarina nursery plants however suffered in the initial stage from attacks by the crickets but transplants 3' and over in height were not affected.

(4) *Frost and Erosion.*

There was no damage from frost and none of any consequence from erosion.

CHAPTER III.

SILVICULTURE.

1. *System of Management.*

The various silvicultural systems in force are tabulated below:—

Silvicultural system.	Area in square miles.	Percentage of total area.
1. Clear felling	2,692	25·2
2. Improvement felling	615	5·7
3. Coppice with standards	1,099	10·3
4. Improvement-cum clear felling	412	3·8
5. Selection	264	2·5
6. Selection-cum improvement	616	5·8
7. Simple coppice	361	3·4
8. Uniform	331	3·1
9. Others	1,142	10·7
Total under Silvicultural system	7,532	70·5
Area under protection,—grazing and uncontrolled	3,151	29·5
Total	10,683	100·0

2. GENERAL PROGRESS OF REGENERATION AND AFFORESTATION.

The total area under natural regeneration was 87,616 acres, of which 31,941 was under concentrated regeneration and 55,675 acres coppice, as against the total of 73,825 in the previous year.

(a) *Mainly natural.*

(i) *Concentrated.*

Natural reproduction in exploited areas of all Circles was supplemented by artificial regeneration by stump planting of teak (*Tectona grandis*) and by sowing of seed of important junglewood species on rabs-beds and kiln sites. Such species were :—

- babul*—(*Acacia arabica*)
- mutti*—(*Ternstroemia tomentosa*)
- khair*—(*Acacia catechol*)
- ciras*—(*Geopelia dalbergioides*)
- bibla*—(*Pterocarpus marsupium*).

Sandal (*Santalum album*) was introduced in suitable localities and in the Panch Mahals and the Surat Sub-Division of the Northern Circle *Dalbergia sissoo* (shisham) was tried. The results generally were successful.

(ii) *Not concentrated.*

Natural regeneration from coppice and self-sown seed was relied on in the remaining areas of exploited coupes. In the Southern Circle the result from coppice was good throughout but that from the seed was not satisfactory.

(b) *Mainly artificial.*

44 acres in the Panch Mahals Division and 30 acres in the North Thana Division both of the Northern Circle were planted with casuarina (*Casuarina equisetifolia*). Tending operations were carried out at a cost of Rs. 1,691.

In the Central Circle, some portion of the exploited coupes in the Janner Range and 219 acres of the Fuel Working Circle in the Poona Division were regenerated with *babul* (*Acacia arabica*). 9 acres of rabs and rab strips along contours in the Main Working Circle of the Poona Division were regenerated with seeds of teak (*Tectona grandis*) and other species. 4 acres and 12 gunthas of the Casuarina Working Circle of the Kolaba Division was regenerated with Casuarina (*Casuarina equisetifolia*).

In the Southern Circle areas aggregating 559 acres in the 3 Kanara Divisions were regenerated with teak (*Tectona grandis*) stumps at a cost of Rs. 14,237. In the Haliyal Teak Pole Forests of the Kanara Northern Division 16 acres were planted with teak stumps and 3 acres were dibbled with sandalwood (*Santalum album*) seed. Phawra scraping was done in 10 acres of the plantation in Bhagwati High Forests of the same Division.

Teak stump planting in groups and clear-felled patches was done on 12 acres of the Mundgod Teak Pole area of the Kanara Eastern Division at a cost of Rs. 128. Transplanting of sandalwood (*Santalum album*) seedlings was done by subordinates in 9 acres of Sirsi-Siddapur Range of that Division.

In the Kanara Western Division, 89 acres of the Karwar Fuel Reserves and 237 acres of the Ankola-Kumta-Honavar-Bhatkal Working Plans were planted with teak (*Tectona grandis*) stumps at a cost of Rs. 871 and Rs. 1,129 respectively. 8 months old *casuarina* (*Casuarina equisetifolia*) plants raised in wet nurseries were transplanted along the sea front in 3 to 4 lines over an area of 34—50 acres.

In Teak Pole coupes 16 of Blocks I, IV and V of Nagargali Range (Belgaum Division), 2660 teak (*Tectona grandis*) stumps were planted at a cost of Rs. 12. Of these 2,460 survived. In coupes 5 to 8 of Fuel Block VII of the same Division 19,000 teak (*Tectona grandis*) plants were raised at a cost of Rs. 222 of which 16,000 survived. In the Teak Pole and Sandalwood coupe 16-V 840 sandalwood (*Santalum album*) plants were dibbled. Of these 460 survived. Out of 11,858 teak plants raised in coupes 16 of Blocks I, II, IV-A and B of Khanapur Range at a cost of Rs. 495—9,583 survived.

Stump planting of teak (*Tectona grandis*) was done in 25 acres of coupes of the Dharwar-Bijapur Division. Burma teak stumps planted in the coupes of Dharwar and Kalghatgi Ranges of this Division last year are giving encouraging results. sandalwood (*Santalum album*) and junglewood seeds were sown in 96 acres of the Dharwar and Bijapur Districts.

(c) Agri-silviculture.

Owing to war supply work no appreciable progress could be made with the agri-silvicultural system in the Panch Mahals Division, the only area taken up being coupe No. 4 of F. S. XLII where the plot holders attempted agri-silviculture by planting *babul*—(*Acacia arabica*) in the ploughed area in lines 24' apart and raising food crops in the remaining area. The results were satisfactory.

In the East Nasik Division 2,632 acres and 30 gunthas were regenerated under the agri-silviculture system. The total area regenerated by this method in this Division now aggregates 9,058 acres.

In the Central Circle areas aggregating 5,046 acres were regenerated under the same system in the Kolaba, Satara, East Khandesh and West Khandesh Divisions and the West Khandesh Sub-Division.

(d) Afforestation.

The only new contour trenching work done during the year was 550 Rft. at Kharpudi of the Poona Division at a cost of Rs. 50. The cost of maintaining the afforested areas along contour trenches in the Central Circle was Rs. 1,282.

The grass from the Nagaonbari contour trenched and afforested area of the Central Circle was sold for Rs. 102 while that from the Khed, Kharpudi and Chimangaon areas in the same Circle was given free to the villagers.

Agave plants were introduced all along the outer boundary and below the nalla bunds in the Chimangaon area.

Hirehodlur Survey Nos. 41, 42, 50, 51 and 54 in Bagalkot Range of the Dharwar-Bijapur Division were to be afforested with *Prosopis juliflora* but as the seed was received late, 4 out of the 5 Survey Nos. were dibbled with seed of *neem* (*Azadirachta indica*), *sirsal* (*Albizia lebbek*) and *tugli* (*Albizia amara*) etc., at a cost of Rs. 240. The result was not successful in spite of good rains.

3. TREE PLANTING IN FOREST AREAS.

Only one *sanad* in respect of a plot measuring 2 acres was granted in Ankola Range of the Kanara Western Division during the year. In the 4 plots already given out in Sirsi-Siddapur Range of the Kanara Eastern Division fruit trees such as *jack* (*Artocarpus hirsuta*), *chikku* (*Achras sapota*), *papaya* (*Carica papaya*) and *citrus* (*Citrus aurantium*) are thriving.

4. HELP RENDERED BY FOREST DEPARTMENT TO ASSOCIATIONS, AGRICULTURISTS AND OTHERS IN TREE PLANTING.

To encourage the local people to plant trees, *casuarina* (*Casuarina equisetifolia*) was raised in 50 nursery beds in the Alibag Range of the Kolaba Division. No less than 800 seedlings were given free to the public and to the officers of other Departments. Over 8,000 one year old seedlings of teak (*Tectona grandis*), *matti* (*Terminalia tomentosa*), *shivani* (*Gmelina arborea*), and *bibla* (*Pterocarpus marsupium*) were supplied to the Rural Development Board from the permanent nursery at Dapoli. Seeds and seedlings of various species were also supplied to the public from the other Divisions in the Central Circle.

In Haliyal Range of Kanara Northern Division seeds of *sandalwood* (*Santalum album*), *soapnut* (*Sapindus trifoliatius*) and *cashew* (*Anacardium occidentale*) were supplied free to the villagers. Of 873 eucalyptus seedlings raised during the year in the nursery at Yekkambi in Sirsi-Siddapur Range of Kanara Eastern Division at a cost of Rs. 156, 250 died and 250 were distributed to the villagers through the Sirsi Municipality. There was no demand for the remaining 373 seedlings or for the 250 eucalyptus plants raised in previous years.

5. TENDING OF GROWING STOCK.

The usual cultural operations such as mulching, weeding, cleaning, creeper cutting and girdling of inferior junglewood trees were carried out by forest subordinates wherever possible or otherwise by paid labour. In the West Thana Division owing to scarcity of labour the freeing of coppice from climbers and surrounding grass could not be carried out to the extent needed. In the Thana Divisions of the Northern Circle most of the I thinning were sold to contractors. Some of the unsold thinnings were worked departmentally and the rest remained unworked due to scarcity of labour. All the II and III thinnings in the North and West Thana Divisions and some of the II thinnings in the East Thana Division also remained unsold. No III thinnings were due for sale in the East Thana Division. The thinnings were carried out in East Khandesh, Poona, Kolaba Divisions and West Khandesh Sub-Division of the Central Circle. In the Southern Circle, thinnings were carried out in all the Divisions. The stems marked were in some cases sold standing.

The cost of departmental works amounted to Rs. 29,605 while the revenue realised both from the sale of standing trees and of the resultant material from departmental operations amounted to Rs. 1,77,108. Some of the material of departmental operations remained unsold.

CHAPTER IV.

EXPLOITATION.

1. SYSTEMS OF MANAGEMENT.

The various systems of management and the areas organised under each are given in Chapter III under the heading "System of Management".

(i) MAJOR FOREST PRODUCE.

Timber, fuel and sandalwood.

Major produce was exploited mainly through the agency of purchasers by the sale of standing coupes in the Northern and Central Circles. Departmental operations were also undertaken in both these Circles for supply of timber to the Defence Department—matchwoods to Western India Match Manufacturing Company and charcoal and firewood for military and civil needs. Charcoal for Producer Gas Plants was also manufactured departmentally in Central Circle. Elsewhere in the Northern and Central Circles charcoal for Producer Gas Plants was manufactured through contractors. The silvicultural operations, e.g., thinnings and cleanings were carried out partly departmentally and partly through contractors in both these Circles.

In the Southern Circle timber from valuable High Forest and certain other areas was brought to depots either departmentally or through contractors for supply to the Defence Department. Pole forest coupes were either sold standing on condition of supply of firewood at specified road-side depots or worked departmentally along with fuel coupes for firewood supplies for civil and military needs. Charcoal of high grade and ordinary qualities was manufactured departmentally from organised and unorganised areas for supply for producer gas plants and civil population respectively. Sales of timber to the public were restricted to material not up to Supply Department specifications. Sandalwood was, as usual, extracted departmentally and brought to depots for sale after conversion.

Most of the silvicultural operations in this Circle were carried out departmentally.

(ii) MINOR FOREST PRODUCE.

Minor forest produce, was as usual, either farmed out or sold on permits.

Hirda (*Terminalia chebula*) of the Rajur Range was sold by auction for Rs. 2,500 but as the purchaser tried to purchase maliki *hirda* at low monopoly prices and thus cause trouble a compromise was arrived at by reverting to the old quota system in the interests of both the maliki owners and Government.

During the year the Military Grass Farm took 7 additional kurans including those of Laling and Babulwadi in the West Khandesh Sub-Division and relinquished one of the Poona Division in favour of the Army for the establishment of a Battle Inoculation Centre. The revenue realised from grass and grazing was Rs. 3,42,210 as against Rs. 2,94,460 in the previous year. The increase is due to Departmental supply of grass to the Military from the Panch Mahals Division.

The concession of free distribution of *tali* palms (*Corypha umbraculifera*) to deserving people in certain coastal talukas of Kanara was continued. Mr. Nazeer Ahmaddar of Lahore, who was granted a permit for the collection and removal

of 200 tons of *tali* palm fruit at Rs. 14 a ton for the manufacture of buttons did not make use of the permit. Cane was allowed free for domestic use and for cottage industries in Kanara, sale on permits being restricted to the quantity required for sale.

Shorea talura, *Butia frondosa* and *Schleichera trijuga* in Sirsi-Siddapur Range have been farmed to the South India Shellac Manufacturing Co. Ltd., Bombay, for Rs. 9,000 for the propagation of lac for a period ending 30th June 1949. The Company started preliminary operations and released broods over about one-third of the total number of *Shorea talura* trees marked. The results are yet to be seen. Other species have not yet been touched.

2. AGENCY OF EXPLOITATION.

(i) Departmental Agency.

The following is a comparative statement of major and minor forest produce extracted departmentally during the years 1944-45 and 1943-44 :—

Circle.	Year.	Major forest produce.			Minor forest produce.				
		Timber in cubic feet in thousands.	Fuel in cubic feet in thousands.	Total cubic feet in thousands.	Sandal-wood value.	Bamboos value.	Grass and grazing value.	Other produce value.	Total value.
					Rs.	Rs.	Rs.	Rs.	Rs.
Northern	1944-45	556	2,916	3,502	..	197	83,742	662	84,601
	1943-44	927	1,494	2,421	14	10,373	202	3,428	14,003
Central	1944-45	937	1,050	1,387	523	2	..	5,917	5,919
	1943-44	309	1,044	1,353	729	1	67	4,444	4,512
Southern	1944-45	3,907	5,504	9,411	2,10,506*	1,751	..	22	1,773
	1943-44	4,078	109	4,187	70,577*	12,135	..	172	12,307
Total	1944-45	4,800	9,500	14,300	2,11,631*	1,950	83,742	6,601	92,293
	1943-44	5,314	2,647	7,961	71,320*	22,509	269	8,044	30,822
Difference		-514	6,853	6,339	1,39,711	-20,559	83,473	-1,443	61,471
Percentage of departmental to total output		40.7	15.9	20.05	100	..	..	..	..

* Estimated value of material extracted and not the sale proceeds of material sold during the year.

The decrease under timber occurs mainly in the Northern Circle where departmental operations for military supply were on a reduced scale. There was also some decrease in the outturn of timber in the Southern Circle due partly to fewer compartments being worked during the year and partly to the failure of contractors to bring to the depots by the end of the year all the timber prepared in the forests.

The increase under fuel is due to departmental extraction of firewood on a large scale to meet civil and military demands.

The increase in the estimated value of sandalwood is due to the greater quantity extracted during the year and also to higher prices expected.

No bamboos were supplied to the Defence Department during the year, which accounts for the fall in revenue under this head.

The increase in grass and grazing was mainly due to the supply of grass to the Military from the Panch Mahals Division.

The decrease under other produce varies according to the quantity of various kinds of minor products extracted departmentally.

(a) TIMBER DEPOTS.

No annual auction sales were held during the year at Dandeli, the principal timber depot in the Southern Circle. The prices received at sales held in the depots of Kanara Western Division are appreciably higher than the prices received in 1943-44--a result of the unhealthy competition usual in sales where essential supplies fall far short of the demands.

(b) FIREWOOD DEPOTS.

The fuel depots at Umbergaon, Gholwad, Saphala, Shirgaon and Satpate in the North Thana Division of the Northern Circle were run through the agency of contractors as usual. Those at Dahanu, Chinchni, Mahim and Palghar were closed as the coupes from which these depots were to be fed remained unsold. About 400 khandis of fuel extracted departmentally last year at Vangaon were sold at Rs. 10 per khandi to the villagers of Chinchni and Tarapur.

The fuel depots at Mahableshwar and Panchgani in the Central Circle and the 6 depots in Kanara Western Division were run through contractors. The depot at Castlerock in Belgaum Division which was formerly worked through a contractor had to be managed departmentally as the contractor did not agree to the sale condition. A new fuel depot was opened at Gokak in the Belgaum Division to minimise the indiscriminate and illicit hacking of trees in the neighbourhood.

As no contractors came forward to work the firewood depots at Kumta, Honavar and Bhatkal for the year 1945-46 even at the increased sanctioned rate, Government sanctioned the grant of subsidy amounting to Rs. 22,500 (detail

below) to enable the contractors to sell firewood at 6½ annas per maund during the year 1945-46 :—

Firewood depots at.				Amount of subsidy.	
				Rs.	
Kumta	...	...	...	...	2,500
Honavar	...	...	...	...	10,000
Bhatkal	...	...	...	...	10,000
				Total	...
					22,500

The firewood depot at Matheran was run departmentally as usual. In all 12,862 maunds of firewood were sold for Rs. 14,818, the expenditure including the cost of establishment being Rs. 8,715.

Various departmental rail, bunder and road side depots were opened for stacking firewood and charcoal extracted for civil and military supply.

The Bombay Charcoal Trade Licensing Order, 1944 and the Bombay Firewood Trade Licensing Order, 1944, were brought into operation in the following districts from the date shown against each :—

Name of District.	Date from which the Bombay Charcoal Trade Licensing Order came into force.	Date from which the Bombay Firewood Trade Licensing Order came into force.
The Bombay City and Suburban District ...	1st August 1944	1st December 1944.
Thana ...	1st August 1944	1st December 1944.
Kolaba ...	1st August 1944	1st December 1944.
Surat ...	1st August 1944	1st December 1944.
West Khandesh ...	1st April 1945	1st December 1944.
Panch Mahals ...	1st April 1945	1st December 1944.
East Khandesh ...	.....	1st February 1945.
Satara ...	5th February 1945	5th February 1945.
Broach ...	1st April 1945	1st April 1945.
Ahmednagar ...	1st April 1945	1st April 1945.
Bijapur ...	1st April 1945	1st April 1945.
Belgaum ...	.....	1st April 1945.
Nasik ...	15th January 1945	1st April 1945.
Poona ...	1st September 1944	1st April 1945.
Kanara ...	1st September 1944	1st April 1945.
Dharwar ...	.....	1st April 1945.

(ii) *Purchasers.*

The following table compares the outturn of major and minor forest produce removed by the consumers and purchasers during the years 1944-45 and 1943-44 :—

Circle.	Year.	Major Forest produce.				Minor Forest Produce.			
		Timber.		Fuel.		Bamboos value.	Grass and grazing value.	Other produce value.	Total value.
		Cubic feet in thousands.	Value	Cubic feet in thousands.	Value.				
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Northern	1944-45	4,266	65,12,448	18,082	69,707	55,491	99,367	1,29,186	2,84,044
	1943-44	3,071	43,18,611	8,430	58,842	23,830	1,52,771	68,705	2,50,806
Central	1944-45	1,985	14,51,037	7,169	2,51,635	28,486	1,58,662	1,39,472	3,26,620
	1943-44	1,250	13,32,408	5,336	1,84,357	14,871	1,61,179	87,423	2,43,273
Southern	1944-45	630	2,95,357	2,853	2,91,682	1,12,458	438	67,145	1,80,041
	1943-44	1,308	6,75,348	5,184	6,55,068	73,063	510	77,047	1,50,620
Total	1944-45	6,881	82,58,842	28,104	6,12,924	1,96,435	2,58,467	3,35,808	7,90,705
	1943-44	5,629	63,26,367	19,000	8,98,267	1,16,564	2,94,460	2,33,175	6,44,199
Difference	..	1,252	19,32,475	9,104	-2,85,343	79,871	-35,993	1,02,628	1,46,506

The increases in volume and value of timber and fuel in the Northern Circle are due to sales of arrear and advance coupes and to higher prices received. The coupes in the Central Circle also fetched better prices. In the Southern Circle which records a decrease, most of the coupes usually sold standing were worked departmentally while some coupes were withheld from sale.

There was a keen demand for bamboos both from the public and the military contractors.

Receipts under grass and grazing decreased in the Northern Circle, owing partly to the grant on lease of a large part of the Palghar kurans to be Adarsha Dugdhalaya and partly to a poor demand for grass in the West Nasik Division. Some of the minor products notably *apla* (*Bauhinia racemosa*), *tembhurni* (*Diospyros melanoxylon*) leaves in the Northern and Central Circles and *rosha* (*Cymbopogon martinii*) grass and *kadh* gum in Central Circle fetched high prices.

(iii) *Rights, Privileges and free grants.*

The following table compares the quantity and value of forest produce removed by right and privilege holders and free grantees during the years 1944-45 and 1943-44 :—

Circle.	C= Concessionists. F= Free grantees.	Major Forest Produce.				Minor Forest Produce.			Total value.
		Timber.		Fuel.		Bamboos value.	Grass and grazing value.	Other produce value.	
		Quantity in cubic feet in thousands.	Value. Rs.	Quantity in Cubic feet in thousands.	Value. Rs.				
Northern	C	..	..	11,022	2,21,183	75,591	11,16,472	1,02,799	12,94,862
	F	15	6,124	..	..	127	..	2,692	2,819
Central	C	..	..	4,772	1,29,058	..	6,72,158	1,16,667	7,88,825
	F	12	6,332	4	168	1,155	20	3,065	4,240
Southern	C	56	12,710	6,122	72,301	3,395	4,20,555	15,567	4,39,537
	F	19	3,941	..	..	281	..	236	517
Total for 1944-45.	C	56	12,710	21,916	4,22,542	78,986	22,00,185	2,35,053	25,23,224
	F	46	22,397	4	168	1,563	20	5,993	7,576
Total for 1943-44.	C	219	33,900	25,653	4,78,978	80,444	23,75,518	2,58,268	27,14,230
	F	47	21,233	31	279	1,642	..	10,954	12,596

Compared with last year the quantities removed by concessionists record a decrease under each head. No particular reasons can be ascribed for this decrease as the quantity removed depends upon the needs of the concessionists and also on the durability of the material.

Free grants of timber and other produce were made in all deserving cases for reconstruction of houses damaged by fire and for repairs to buildings etc.

(iv) *Outturn and Sources of forest produce.*

The following table compares the outturn from all sources of forest produce during the years 1944-45 and 1943-44 :—

Circle.	Year.	Major Forest Produce.			Minor Forest Produce.		
		Timber cubic feet in thousands.	Fuel cubic feet in thousands.	Sandal- wood value.	Bamboos value.	Grass and grazing value.	Other produce value.
				Rs.	Rs.	Rs.	Rs.
Northern	1944-45 ..	4,837	32,050	—	1,31,400	12,99,581	2,35,339
	1943-44 ..	4,008	20,996	14	1,14,880	12,69,445	1,70,103
Central	1944-45 ..	2,334	12,995	523	29,643	8,30,840	2,65,121
	1943-44 ..	1,570	12,812	729	15,902	9,24,969	2,18,255
Southern	1944-45 ..	4,612	14,479	2,10,608	1,17,885	4,20,998	82,990
	1943-44 ..	3,631	13,523	70,577	90,877	4,75,833	1,13,083
Total	1944-45 ..	11,783	59,524	2,11,031	2,78,934	25,51,414	5,88,450
	1943-44 ..	11,209	47,331	71,340	2,21,159	26,70,247	5,10,441
Difference between 1944-45 and 1943-44.		-574	+12,193	+1,39,711	+57,775	-1,18,833	+73,009

3. FOREST LABOUR AND WAGES.

The annual Forest operations such as exploitation of forests, construction of buildings, roads, etc., provide employment for a considerable number of people.

The following table gives an estimate of the labour employed on forest works and remuneration paid to them during the year.

Circle.	Agency of employment.	Number of labour units.	Aggregate amount earned.
			Rs.
Northern	... { Departmental	... 5,25,590	2,95,644
	... { Contractors	... 61,09,378	34,36,525
Central	... { Departmental	... 1,14,913	1,44,977
	... { Contractors	... 31,24,652	25,46,599
Southern	... { Departmental	... 4,63,825	3,80,022
	... { Contractors	... 20,44,024	23,26,545
Total	... { Departmental	... 11,03,428	8,20,643
	... { Contractors	... 1,12,78,054	83,09,669

The condition regarding the payment of minimum wages by forest contractors to their labourers continued to be in force in the three Thana Divisions, the Kolaba and West Khandesh Divisions and the Peint Mahal of the Nasik District. The rates of minimum wages were increased during the year in proportion to the rise in the cost of living.

The Special Officer for the protection of Aboriginal and Hill Tribes in the Thana, Kolaba and Nasik Districts reported to Divisional Forest Officers concerned all cases of infringement of the wage conditions and these together with those reported by subordinates of the Department were properly dealt with.

CHAPTER V.

FOREST ENGINEERING BRANCH.

The Engineering Branch of this Department received many calls for plans and estimates for roads, culverts, bridges, buildings, rest houses, wells, dharmashalas, etc., but due to inadequacy of staff only the more urgent works could be dealt with, the chief among these being plans and estimates for the scheme for the improvement of the water supply at Dandeli, for the improvement of the Dandeli Depot roads, for an additional dharmashala at Dandeli, for temporary quarters for the Engineering staff at Dandeli and for an additional bungalow at Dandeli.

2. MECHANICAL SKIDDING.

The report covers, as usual, the period of working season from 8th November 1944 to 31st May 1945 and not the financial year.

Timber extraction work was carried out in Series I compartments 14 B, C, D and compartment 22, XI-A 20 and XI-A6/20 in Northern Division, Kanara. The total output was 2,053.51 tons as against 1,823.21 tons in the previous season. The average extraction cost including all charges works out to Rs. 15-5-0 with an average length of haul of 1,612 feet against Rs. 13-7-2 with an average length of haul of 1,700 feet last year. The increase in cost is due to an increase in the rates of pay and dearness allowance.

As in the previous year, both skidding outfits were used for hauling timber and sleeper pieces during the off season.

3. SAW MILLS.

The 4 sawmills at Dandeli viz. (1) Robey, (2) Fowler, (3) Foden and (4) Lancashire operated throughout the year except No. 3 which was closed in February 1945, the engine being out of order. The total output of these mills amounted to 1,70,470 cubic feet as against 1,95,153 cubic feet in the previous year. The decrease is due to the closure of the foden unit from February 1945, to a greater proportion of small sized material cut during the year and to the poor quality of raw material for conversion.

The outturn of the Dandeli mills for the years 1944-45 and 1943-44 is compared below :—

Description of outturn.	Robey mill.		Fowler mill		Foden mill.		Lancashire mill.	
	1944-45.	1943-44.	1944-45.	1943-44.	1944-45.	1943-44.	1944-45.	1943-44.
	Cubic feet.	Cubic feet.	Cubic feet.	Cubic feet.	Cubic feet.	Cubic feet.	Cubic feet.	Cubic feet.
Teak M. G. sleepers	621	8,622	158	731	132	..	421	..
Teak sawn material	41,256	38,398	36,831	37,476	10,111	15,056	80,784	94,870
Junglewood material	15	..	123	..	..	..	18	..
Total	41,892	47,020	37,112	38,207	10,243	15,056	81,223	94,870

In addition to the above mills, the Government sawmills at Kirwatti and Londa worked throughout the year. The outturn of these mills for the years 1944-45 and 1943-44 is compared below :—

Description of outturn.	Kirwatti mill.		Londa mill.	
	1944-45.	1943-44.	1944-45.	1943-44.
	Cubic feet.	Cubic feet.	Cubic feet.	Cubic feet.
Teak M. G. sleepers	22,806	6,140	.....	.....
Teak sawn material	14,561	15,035	.....	.....
Junglewood material ... ..	.....	2,782	58,309	46,789
Total	37,367	23,957	58,309	46,789

The increase in the outturn of these mills is due to satisfactory working during the year without any break down and also, in the case of the Londa mill, to the addition of one 36" wooden bench.

The financial results of the Dandeli mills are compared below :—

Items.	Dandeli mills.		
	1944-45.	1943-44.	Diference.
Revenue	10,85,643	15,52,368	—4,66,725
Expenditure	9,01,888	11,68,628	—2,66,740
Net profit	1,83,755	3,83,740	—1,99,985
Capital at charge	4,30,010	4,32,897	—2,887
Percentage of net profit on capital	42.7	88.6	

The reasons for the decrease in profits were :—

- (1) a smaller quantity of sawn material was sold during the year,
- (2) very high prices were realised during 1943-44 in auction sales while no auction sales were held in 1944-45, sales being restricted to supplies at scheduled rates plus certain percentage increase for a small quantity supplied to the M. & S. M. Railway,

(3) increase in miscellaneous earnings in 1943-44.

(4) increase in profits during 1943-44 over those of 1944-45 due to the following adjustments.

	1943-44.	1944-45.
	Rs.	Rs.
(a) Value of stock of sawnwood at close of the year added to the income	2,70,268	2,59,433
(b) Value of stock of sawnwood at the beginning of the year deducted from the income	1,37,329	2,70,268
	<u>+ 1,32,939</u>	<u>- 10,835</u>

Net result Rs. 1,32,939 + 10,835 = 1,43,774 increase in income for 1943-44.

(5) Loss during the year of about Rs. 9,000 due to reduction in volume of furniture timber supplied to the Southern Army.

The financial results of the Kirwatti and Londa mills are compared below:—

Item.	Kirwatti mill.			Londa mill.		
	1944-45.	1943-44.	Difference.	1944-45.	1943-44.	Difference.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue	1,76,655	1,21,878	54,777	2,21,918	1,72,147	49,771
Expenditure	1,55,301	1,11,917	44,284	2,29,854	2,30,557	-703
Net profit (+) or loss (-)	+21,354	+10,861	10,493	-7,936	-58,410	-50,474
Capital at charge	52,605	38,646	13,959	13,888	33,553	-19,665
Percentage of net profit (+) or loss (-) on capital	40.59	28.1	12.49	-57.14	-174.08	-116.94

The profits from the Kirwatti mill have increased and the loss from the Londa mill has considerably decreased. The reasons for these variations are attributed to the greater output, increase in the rates of timber supplied to the Supply Department, better prices obtained for sawn material and improvement in the work of the skilled labour.

The saw mills have played an important part in the production of supplies of sawn timber to the Defence Department and in meeting the indents for sleepers from the M. & S. M. Railway.

4. DEAD STOCK AND STORES.

The deadstock and consumable stores valued at Rs. 2,620 and Rs. 38,398 were supplied by the Forest Engineer to the 6 mills in the Southern Circle as against Rs. 18,054 and 41,160 in the previous year.

The new band-sawmilling machinery consisting of one 7" Robinson Band mill and one 5" Band Resaw was received during the year in a damaged condition. The broken parts of the machinery were repaired on the site and the mill was erected in December 1944. Owing, however, to the difficulty of recruiting specially trained operatives it could not be put into operation till 2nd February 1945. The outturn of this mill since its installation to the end of March was 4,177.58 Cubic feet. This is satisfactory and would have been infinitely better if abnormal sizes had not to be cut.

5. PRIVATE SAW MILLS IN THE SOUTHERN CIRCLE.

The sawmill belonging to Mrs. Jankibai Sawant at Vincholi in Kanara Northern Division and 10 other private mills were worked during the year to augment the supplies of sawn material to the Defence Department. Mr. R. A. Sirur's mill at Dharwar was transferred in December 1944 to Mr. D. K. Gunjekar. Rao Sahab K. R. Patil closed down his Ahwar mill during the year. The log material for all these mills was supplied by the Department, the contractors being paid sawing rates only.

The outturn of all the private mills was 2,40,990 cubic feet and the revenue realised from the sale of the material Rs. 10,44,309. The expenditure, including the value of raw material and including payments made to the owners of these mills for handling and sawing, amounted to Rs. 7,03,339 resulting in a net profit of Rs. 3,40,970 to Government.

6. GENERAL.

(a) Charcoal Producer Gas for Motor Vehicles.

The 4 controlled 3 ton C. G. P. trucks continued to function throughout the year. It has been found after 18 months' trial that charcoal gas plants on motor vehicles are suitable only within certain fixed conditions which can be summed up as follows :—

- (a) Reasonably level roads.
- (b) periodic overhaul of engine and gas plant,
- (c) maintenance and repair shop in operating areas,
- (d) limited loads.
- (e) rigid adherence to correct type of fuel,
- (f) thorough inspection daily of all filter elements.

(b) Seasoning Kiln.

The seasoning kiln was completed in March 1944. Since then it could be operated twice only. In the first run 175 cubic feet of blanks of 17 species of timbers for pencil manufacture were seasoned. The time required for seasoning was 29 days and the cost of seasoning was Rs. 2-12-0 per cubic feet.

In the second run 189 cubic feet of blanks of 22 species of junglewood and teak were seasoned for pencil manufacture and picker arms, the teak planks being added to fill up. The time taken up for seasoning was 25 days and the cost of seasoning worked out to Rs. 2-1-3 per cubic feet. From the seasoned material 750 picking sticks were prepared and 483 of these were sent for trial to the Bharat Timber Industries, Bombay. The result of the trial is awaited.

The kiln whose capacity is about 250 cubic feet could not be filled each run as sufficient suitable material was not available at the time. The high cost of seasoning is due to the insufficient loads. No further runs were taken for want of definite indents and the staff of the seasoning kiln was placed on other urgent works.

7. CIRCULAR SAW BENCHES AND SAWS.

All the circular saw benches at Dandeli, Londa and Kirwatti, including 11 locally manufactured wooden benches were efficiently maintained despite difficulty in obtaining material such as gun-metal for bearings. The wooden benches which were intended purely as a temporary expedient were kept working satisfactorily.

The saw situation was unsatisfactory. Little more than one third of the normal annual requirements could be secured. Owing, however, to the reconditioning by the Saw Doctor of a large number of 'crippled' saws which in the past were condemned it was possible to get on with only about half of the annual requirements.

CHAPTER VI.

FINANCIAL RESULTS.

The revenue and expenditure of the year compared with those of the previous year and the average of the past quinquennium 1939-40 to 1943-44 are as follows :—

Circle.	Year.	Revenue.	Expenditure.			Surplus or deficit.	Percentage of surplus to revenue.
			Conservancy and works.	Establishment.	Total.		
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Northern	1944-45 ..	1,47,25,617	67,63,370	8,68,867	76,32,237	70,93,360	48·2
	1943-44 ..	88,30,340	31,61,956	7,82,635	39,44,591	48,85,758	55·3
	Average ..	40,77,858	9,95,248	6,38,608	16,83,916	23,93,942	58·7
Central	1944-45 ..	73,71,716	38,36,730	7,31,357	45,68,087	28,03,629	38·0
	1943-44 ..	35,21,150	20,33,713	6,25,778	26,59,491	8,61,659	24·4
	Average ..	14,86,711	5,91,586	5,59,167	11,50,753	3,35,958	22·6
Southern	1944-45 ..	92,80,304	60,70,970	7,72,493	68,43,463	24,37,341	26·3
	1943-44 ..	89,36,362	39,12,418	6,85,416	45,97,833	43,38,520	48·5
	Average ..	40,00,264	16,45,968	6,21,434	22,67,402	17,32,882	43·3
Utilization	1944-45 ..	837	1,024	84,158	85,182	-84,345	---
	1943-44 ..	816	868	83,069	83,937	-83,121	---
	Average ..	3,521	620	34,063	34,673	-31,152	---
General Direction	1944-45 ..	603	33,541	1,60,479	1,94,020	-1,93,417	---
	1943-44 ..	9,387	33,785	1,82,452	2,16,237	-2,06,850	---
	Average ..	9,356	33,869	1,65,644	1,99,513	-1,90,157	---
Forest Engineering Division	1944-45 ..	1,148	88,275	70,955	1,59,230	-1,58,082	---
	1943-44 ..	1,820	1,06,184	63,449	1,69,633	-1,67,813	---
	Average ..	2,300	63,287	45,606	1,08,963	-1,06,683	---
Silvicultural Division	1944-45 ..	237	4,165	30,279	34,444	-34,187	---
	1943-44 ..	446	2,351	25,866	28,207	-27,761	---
	Average ..	98	1,012	23,008	24,715	-24,617	---
Total	1944-45 ..	3,13,80,982	1,67,98,075	27,18,608	1,95,16,683	1,18,64,299	37·8
	1943-44 ..	2,13,00,330	92,51,275	24,48,654	1,16,99,929	96,00,401	45·07
	Average ..	95,80,108	33,32,290	21,37,665	54,69,955	41,10,153	42·9
Difference between 1944-45 and 1943-44.		1,00,80,652	75,46,800	2,69,954	78,16,754	22,63,898	---

(a) Includes Rs. 3,991 under revenue on account of transfer of deposit from the Special Development Fund and Rs. 3,991 expenditure debited to 'D. Special Development Programme.'

(b) Includes Rs. 30,614 under revenue on account of transfer of deposit from the Special Development Fund and Rs. 30,614 expenditure debited to 'D. Special Development Programme.'

Compared with the figures of the last year the revenue, expenditure and surplus increased by 100,78·16 and 22·63 lakhs of rupees respectively.

The increase in revenue is due to various causes, the chief of which being resale of charcoal purchased for civil supplies, sale of a larger number of coupes in the Northern Circle and higher prices received for coupes sold standing in the Northern and Central Circles and for some of the minor forest products.

The expenditure under B-Conservancy and works rose from Rs. 92·51 to Rs. 167·98 lakhs. The increase is due mainly to purchase of charcoal for resale for civil supply and partly to (i) the higher cost of exploitation owing to increase in the cost of labour and transport, (ii) purchase of a fleet of 50 controlled lorries for transport work in the Southern Circle, (iii) payment of arrear bonus from the sale proceeds of malki teak in the Thana Divisions and (iv) payment of dearness allowance and travelling allowance at higher rates to the worked-charged establishment.

The rise of 2·69 lakhs of rupees under C-Establishment was due mainly to increase in the rates of travelling allowance and dearness allowance and to payment of war allowance.

The analysis of receipts and expenditure shows that of the receipts 94·5 per cent. came from major produce, 2·8 per cent. from minor produce and 2·7 per cent. from miscellaneous sources. Of the expenditure 86·1 per cent. was incurred on extension, constitution, improvement and exploitation and 13·9 per cent. on administrative, executive and protective charges.

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

Circle.	On 1st April 1944.			On 31st March 1945.		
			Rs.			Rs.
Northern	9,92,078	...	...	3,49,824
Central	1,13,569	...	...	2,52,230
Southern	7,31,671	...	...	3,61,349
		Total	18,37,318			9,63,403

CHAPTER VII.

ADMINISTRATION.

The post of Chief Conservator was held by Mr. J. B. T. Brooks, C.I.E., throughout the year.

The Circle charges were held by the following officers :—

Circle.	Name of Officer.	From.	To.
Northern	... Mr. J. Walker	... 1st April 1944	... 11th January 1945.
	Mr. J. A. Singh	... 12th January 1945	24th January 1945.
	Mr. J. Petty, M.C., O.B.E.	... 25th January 1945	31st March 1945.
Central	... Mr. E. S. B. Tavener	... 1st April 1944	... 21st March 1945.
	Mr. R. F. Sandeman	... 22nd March 1945	... 31st March 1945.
Southern	... Mr. R. J. Smith, M.B.E.	... 1st April 1944	... 31st March 1945.
Utilization	... Mr. W. C. de C. Walsh	... 1st April 1944	... 31st March 1945.

The usual transfers of officers took place according to exigencies of administration. Messrs. Holmes and Millett continued to be on Military service.

Mr. E. S. B. Tavener was confirmed as Conservator of Forests from 1st June 1944.

Mr. E. T. C. Vas was deputed to the Finance Department (Supply) where he joined as Additional Director of Civil Supplies (Charcoal and Firewood) on 24th August 1944. He reverted to the Forest Department as officiating Conservator shortly after the close of the year and his place was taken by Mr. J. A. Singh.

The services of Mr. M. L. Khanna were placed at the disposal of the Government of India as Instructor at Dehra Dun, shortly after the close of the year.

Mr. D. G. Saner retired on 20th June 1944 and Mr. O. B. Parikh on 25th October 1944.

Mr. V. A. N. Sausman continued to work in the Land Improvement Section of the Agricultural Department as Land Improvement Officer, (South), Bijapur.

Messrs. D. R. Bharucha and N. S. Kaikini were promoted to Bombay Forest Service Class I in a provisionally substantive capacity and later confirmed in Bombay Forest Service Class I from 20th June 1944 and 25th October 1944 respectively. Mr. R. D. Joshi was promoted to Bombay Forest Service Class I in a provisionally substantive capacity from 25th October 1944.

Messrs. B. F. Brito and A. J. V. Pais were confirmed in Bombay Forest Service Class II, and Messrs. G. A. Wagle and P. K. Roy were appointed to hold temporary posts created in Bombay Forest Service Class II in a provisionally substantive capacity. Messrs. D. R. Sathaye, G. N. Kalawar, A. J. Andrade and M. V. Divekar were appointed to officiate in Class II of the Bombay Forest Service. Messrs. S. M. Wagle and M. S. Khairnar, Rangers, were appointed to hold the temporary posts in Bombay Forest Service Class II created for the Land Improvement Section of the Agricultural Department and posted as Sub-Divisional Forest Officer, South Circle and Sub-Divisional Forest Officer, North Circle, respectively.

Mr. V. D. Mehendale, probationary Assistant Conservator of Forests, was deputed to the Supply Department where he joined his appointment as Assistant to the Officer-in-Charge, Timber Depot, Bombay, on 9th June 1944.

Mr. B. K. Bellare, Superintendent, retired on invalid pension from 18th September 1944 and Mr. M. M. Mehta was appointed to hold the post in a provisionally sub-stative capacity from the same date.

Messrs. U. R. Mavinkurve and V. N. Kamte were selected for training in Forestry at the University of Edinburgh and for eventual appointment to Class II of Bombay Forest Service.

Three other candidates, Messrs. V. M. Wagle, I. M. Qureshi and C. M. Joshi, were selected for the 1945-47 Superior Forest Service Course, at Dehra Dun.

Fifty per cent. of the cost of training of the students selected for Edinburgh during the war and six months thereafter will be borne by the Government of India and the remaining 50 per cent. by the Government of Bombay, while the whole cost of training the students selected for Dehra Dun during the war and six months thereafter will be borne by the Government of Bombay. The monthly rate of stipends sanctioned for the latter has been raised from Rs. 100 to Rs. 120 per mensem.

The title of C.I.E. was conferred on Mr. J. B. T. Brooks and that of O.B.E. on Mr. J. Petty on the occasion of the New Year's day. The title of M.B.E. was conferred on Mr. V. A. N. Sausman and that of Rao Bahadur on Rao Saheb M. S. Wagle on the occasion of the King's birth-day.

A separate Working Plans Division was created for the Northern Circle for a period of one year in the first instance, for the collection of data for revision of Working Plans, etc., and it began to function from 8th February 1945.

SUBORDINATE AND CLERICAL ESTABLISHMENT.

(i) *Training of Rangers.*

The four recruits selected for the 1944-46 course completed the first year of their training. Four recruits were selected for the 1945-47 course but one of them eventually resigned before joining the College. Owing to increased demand for seats from the Provinces, an additional 1945-47 class was started at Dehra Dun to train Rangers and three candidates were selected for this expanded class. In all six students have joined the 1945-47 courses.

A temporary increase of Rs. 10 per mensem has been sanctioned in the rate of stipend to be paid to the Ranger students with effect from 1st April 1945, so long as Government servants continue to draw dearness allowance.

(ii) *Training of Foresters.*

The Forest Class at Mandvi was held as usual for a continuous period of six months. 23 students—10 from the Central Circle, 8 from the Northern Circle and 5 from the Indian States—were admitted to the class which was conducted by a Ranger. Of these 19 passed the final examination.

The Forester's Training Class at Haliyal in Kanara Northern Division was conducted by the Range Forest Officer, Haliyal in addition to his own duties. Out of the 11 students admitted 10 completed the course and 8 passed the Final Examination.

The staff, both protective and clerical, has again put in a hard year's work in a commendable manner despite difficult circumstances.

The following table gives the casualties and punishments during the year:—

Description.	Northern Circle.	Central Circle.	Southern Circle.	Total 1944-45.	Total 1943-44.
Retirements	26	17	16	59	49
Deaths	11	8	18	37	26
Resignations	20	8	8	36	18
Prosecutions ... ..	.....	.....	1	1	.....
Degradations	12	10	2	24	24
Dismissals, removals, etc. ...	6	8	1	15	11
Total	75	51	46	172	128

The health of the staff was fairly good except in places which are notorious for their bad climate. Malaria of a virulent type is reported to have undermined the health of the executive staff working in unhealthy and out-of-the-way places. The question of ameliorating the conditions for subordinates is now under the consideration of Government who have recently sanctioned as an experimental measure a scheme for the supply of condensed sweetened milk at concession rates to subordinates stationed in the Dandeli, Kulgi, Virnoli and Gund Ranges of the Kanara Northern Division.

Measures to suppress corruption.

All applications against forest subordinates were promptly enquired into and those subordinates found guilty were suitably dealt with. The usual control over expenditure and piece work rates was exercised by the Divisional Forest Officers and their Assistants. There was one case of corruption in the Dharwar-Bijapur Division. The forest guard concerned was prosecuted and sentenced to imprisonment.

Inspections and tours.

His Excellency the Governor of Bombay camped at Belekeri for 5 days during January 1945.

Adviser (Finance) to His Excellency the Governor of Bombay, toured in the Southern Circle in March 1945.

The Chief Conservator toured in all the Circles and in the course of his tours inspected the offices of the Conservators, Northern and Southern Circles.

The Conservators of Forests in the course of their tours inspected the Divisional Offices in their charges. No serious irregularities were noticed. Some of the Divisional Offices were inspected by the Audit Staff of the Accountant General, Bombay.

The Utilization Conservator and the Silviculturist, Bombay Province, toured in all the Circles, the Utilization Conservator visiting the District Head Quarters of almost all Districts in connection with District requirements of fuel.

Civil Suits.

The appeal filed by Mr. Dadabhai Ardeshir Zaiwala against the decision of the First Class, Sub-Judge, Thana, in a suit filed against Messrs. D. M. Herwatte; Ranger, and B. S. Pradhan has not yet been decided.

The appeal filed by Government against the decree of Rs. 2,486 ordered by the Court in a suit filed by Mr. Kazi is still pending. The second suit filed by Mr. Kazi for a claim of Rs. 45 on account of the value of trees standing in khoti unassessed waste land in the village of Poman also remains undecided.

A suit has been filed by Mr. Apte for the price of teak trees sold from his lands at Shirgaon.

Mr. A. R. Yellapurkar has preferred a second appeal to the High Court of Bombay against the decision given by the District Judge, Karwar, in Civil Appeal No. 11 of 1941. The appeal has not yet come up for hearing.

The amount due from Mr. D. B. Sabnis under mortgage bond has been recovered by the Government Pleader, Dharwar, in pursuance of the decree passed by the First Class Court, Dharwar.

A Civil Suit was filed by Mr. S. G. Gaitonde against Government and Mr. V. R. Haldipur of Karwar. The suit was dismissed with costs.

Criminal Prosecutions.

One guard from the West Khandesh Sub-Division was prosecuted for submitting a false claim of travelling allowance and he was sentenced to pay a fine of Rs. 50 or in default to undergo rigorous imprisonment for 3 months. The offender paid the fine.

Land Revenue Administration.

The Divisional Forest Officer, West Nasik, continued as Assistant Collector and Excise Superintendent in the Peint Mahal. The Revenue Administration of the unsurveyed villages and Excise Administration of the Akrani Mahal remained in the hands of Forest Department.

Forest Village Panchayats.

The 4 Panchayats in Kanara Northern Division and 13 in Kanara Western Division continued to function as in the previous year. Final orders regarding the formation of a new Panchayat at Belekeri in Kanara Western Division are still awaited.

Relations between the Forest and other Departments.

These continued to be cordial.

CHAPTER VIII.

GENERAL.

The financial returns of 1944-45 are the highest ever recorded. The gross revenue, expenditure and surplus rose to Rs. 3,13,80,982, Rs. 1,95,16,683 and Rs. 1,18,64,299 respectively. The corresponding figures for the previous year were Rs. 2,13,00,330, Rs. 1,16,99,929 and Rs. 96,00,401. Causes have been discussed in Chapter VI.

There was again a huge increase in the demands of the Defence Department for war timber supplies of all types and these were met to the greatest possible extent. Special war-exploitation outside Working Plans had to be expanded particularly in the Southern Circle. A new Band-mill was erected at Dandeli. This mill started operating in February 1945 and contributed towards an increase of outturn of accurately sawn timber with less wastage of raw material.

There was a further rise in the price of timber on the open market and unprecedented prices were obtained for some of the minor forest produce farms.

The Department had to organise production of firewood and charcoal for heavy civil and military needs and was responsible for the greatest part of the planning of the distribution of the production over the whole Province. Production of firewood from Government forests alone amounted to about 4,00,000 tons. These operations placed a still greater strain on the establishment and necessitated further departures from Working Plan prescriptions. The Bombay Charcoal and Firewood Trade Licensing Orders came into force over a number of Districts during the year and over most of the remaining Districts immediately after the close of the year. In addition to ordinary quality-charcoal for civil and military needs, a supply of high grade charcoal for producer-gas plants was also undertaken.

The Divisional Forest Officer, North Thana, continued to function as Liaison Officer Military Grass Supply.

In spite of the additional heavy work caused by war and civil supplies the normal activities of the Department were carried out with the usual efficiency.

TRANSPORT.

In the Northern Circle the difficulty of transport was relieved to some extent by release of iron for cart tyres by the Controller of Steel and Iron.

The controlled lorry purchased last year for the North Thana Division was used for the transport of sawn timber from the Sawta mill to Dahanu Road Station and of ballies from roadside depots in forest to railway stations.

For the Southern Circle, where 38 controlled lorries (4 of the Department and 34 of forest contractors) were already operating, an additional 50 controlled lorries had to be purchased for the transport of departmental material for the Defence Department and of firewood and charcoal for civil and military supply.

Arrangements for the shipping of timber from the Kanara ports were made by the Timber Directorate through the Bombay Steam Navigation Company, Ltd.

Wagons for the transport of timber on the B. B. & C. I. and G. I. P. Railways continued to be controlled by the Regional Controller of Railway Priorities, Bombay, advised by the Provincial Timber Transport Advisory Committee. Timber transport control over the M. & S. M. Railway was exercised by the Conservator of Forests, Southern Circle, in consultation with the District Traffic Superintendent, Hubli.

RAILWAY SUPPLIES.

Seventy-eight thousand one hundred and sixteen sleepers and 71 tons of sawn material were supplied to the M. & S. M. Railway against 20,373 sleepers and 142 tons of sawn material in the previous year. As the capacity of the mills was utilised almost entirely for cutting Supply Department indents, 300 tons teak logs were supplied to the Railway for private sawing of their special sawn timber indents, normally met by the Department.

ALNAWAR-DANDELI RAILWAY.

The revenue and expenditure of the Alnawar-Dandeli Railway accounted for during the year show a net profit of Rs. 53,523 (Rs. 1,11,291 receipts minus Rs. 57,768 expenditure) or 48.09 per cent. on the gross receipts as against Rs. 37,054 (Rs. 98,068 receipts minus 61,014 expenditure) or 37.78 per cent. of the previous year. The figures of the year include those for 11 months—February to December 1944 while the figures for 1943-44 represent the financial results for 13 months—January 1943 to January 1944. A comparison of the figures for the two years does not therefore give an exact picture of the working results of the Railway.

HUNTING AND SHOOTING.

The revenue realised from fees for game licenses was Rs. 7,810 against Rs. 7,285 in the previous year. Eight free licences to hunt and shoot in reserved forest were issued to *bona-fide* residents of Kanara.

The details of animals killed in Government forest are given below :—

All-India S. No.	Animal.	Northern Circle.	Central Circle.	Southern Circle.	Total	Average of past 5 years 1939-40 to 1943-44.
1a	Tiger ...	2	.....	6	8	13
1b	Tigress ...	.....	3	4	7	6
2	Panther ...	6	9	13	28	45
3	Wild cat ...	.....	.....	.....	.....	.....
6	Hyena ...	.....	.....	.....	.....	.....
7	Wild dog ...	.....	.....	1	1	2
14	Sloth bear ...	.....	3	1	4	7
15	Wild elephant ...	.....	.....	9	9	14
17	Bison ...	.....	.....	8	8	18
29	Blue bull ...	10	125	.....	135	65
30	Bhekar (4 horned antelope) ...	.....	.....	.....	.....	.....
32	Chinkara ...	.....	.....	.....	.....	.....
33	Barking deer ...	.....	.....	.....	.....	2
37	Sambhar ...	2	3	4	9	11
38	Cheetah ...	.....	.....	8	8	13
43	Crocodile ...	.....	.....	.....	.....	.....
46	Wild pig ...	3	743	1,367	2,113	1,109
	Total ...	23	886	1,421	2,330	1,305

Rewards amounting to Rs. 50 for the killing of a tiger, Rs. 250 for killing wild elephants and Rs. 198 for killing wild pig were granted by the Revenue Department in the Southern Circle.

Two persons in Supa Petha who had gone to forest to collect fuel were attacked by wild bear. One of them succumbed to his injuries.

Increase or decrease in the number of wild animals and birds.

There was no noticeable change in the animal or bird population of the Northern and Central Circles. Elephant, bison and panther appear to be on the increase in the forests of Virnoli and Kulgi Ranges which are closed to shooting with a view to their eventual conversion into a game sanctuary.

Gun Clubs.

Four more gun clubs were formed during the year, 2 in Kanara Western Division, one in Kanara Eastern Division and one in Dharwar-Bijapur bringing the total number of gun clubs in the Southern Circle to 37. The number of pig killed were 408 in Kanara, 333 in Belgaum, 577 in Dharwar and 49 in Bijapur District. Rs. 965 were distributed as rewards to gun clubs. It is claimed that the operations of these gun clubs have resulted in a considerable reduction in damage to crops, the elimination of night watch, a decrease in fallow-land area and the raising of a second crop such as pulses. The method of crop protection through gun clubs was an exhibit at the Agricultural and Cattle show held at Naval Gund in Dharwar District.

In the Central Circle the gun club in the East Khandesh Division was instrumental in killing 510 wild pig and 122 blue bull and the gun club in the Satara Division 233 wild pig.

The number of animals killed by gun clubs are included in the statement given under "Hunting and Shooting".

Grow More Food Campaign.

Further grants of land for raising food crops were made wherever possible under the "Grow More Food Scheme".

About 8,000 acres of forest were given out under the agri-cum-silviculture system for the production of food crops in the Northern and Central Circles. In the Kolaba Division where the area given out was about 3000 acres the yield of the crop amounted to 3000 maunds of *nagli* and *warai* (Indian millets) valued at about Rs. 30,000 and this is reported to have supported about 5000 to 6000 Katkaris who needed employment in the rainy season. Cucumber valued at Rs. 1,000 was also produced in this area.

In the Central Circle blank areas on flat ground and fallow grassy table lands were leased out for cultivation in the Dhebhewadi and Mahabeshwar Ranges of the Satara Division. The inforest settlers in the West Khandesh were granted a remission of rent amounting to Rs. 1,742 to raise food crops in their holdings instead of cotton.

In the Southern Circle villagers were induced to grow vegetables and more food crops. Vegetables and food crops were also grown by subordinates in the compounds

of Government buildings. An area of about 1,000 square feet at Dandeli was used for poultry and bee-keeping. Pumpkins, chillies etc., were raised on the boundary lines of the 1944 Bhagwati plantation but most of these were destroyed by monkeys. In Kanara Western Division about 193 acres of land in 13 teak regeneration areas of 1944-45 were given on the agri-cum-silviculture system for growing *ragi*. 96 acres were given on Eksali (one year) tenure in Patne Round for growing *nachana*, *wari*, etc. (Indian millets) and about 3 acres in the compound of the range office, Gokak for growing *jawar*, *bajri*, *kulthi*, etc. (Indian millets).

Kumri (Shifting cultivation).

No *dalhi* plots were resumed during the year. The area under this system of cultivation in the Kolaba Division remained at 27,628 acres and 13 gunthas. The assessment collected during the year amounted to Rs. 3,545 including past arrears.

All the *kumri* villages in the Patne and Chandgad Rounds of the Belgaum Division were inspected by the Sub-Divisional Forest Officer. There were no complaints from the holders of the *kumri* areas situated in these rounds nor from those in the Anshi and Tamasgi Rounds of Kanara Northern Division.

Inforest Settlements.

16 settlements in West Khandesh Division were handed over to the Revenue Department for management.

The total assessment recovered in the Northern Circle amounted to Rs. 26,330; and that in the Central Circle to Rs. 23,122. The condition of the settlements in both the Circles was satisfactory.

A sum of Rs. 24,750 was granted as *tagai* to the settlers in the Central Circle out of which Rs. 17,670 including past arrears were recovered.

The grain Banks at Ambapur and Madkani Forest Settlements in the Taloda Range and at Dhadgaon in the Akrani Mahal are progressing well.

Village Co-operative Societies have been organised in the Taloda and Malda Settlements but they are not functioning for want of advance of loans from the Bank.

A well was constructed in the settlement at Joida in Shirpur East Range at a cost of Rs. 1,369 and a well in the Maratha settlement in Chopda is under construction and is expected to be completed in 1945-46.

Malki teak (Tectona grandis) Thana.

A sum of Rs. 90,369 was paid as bonus to the District Local Board, Thana, as against Rs. 24,659 last year. The increase over the last year's amount was mainly due to payment of arrear bonus amounting to Rs. 43,965 for the years 1942-43 and 1943-44. No new works were undertaken by the District Local Board from the Malki teak bonus fund during the year. Repairs to the dip on Sawta Bunder Road were carried out at cost of Rs. 768 and Rs. 225 were spent on clearing the land slide on Umber-pada-Khanivade cart track. A meeting of the Forest Standing Committee was held on 13th October 1944.

Local grass Storage Scheme in Panch Mahals.

The total quantity of grass to be delivered by contractors under the storage scheme amounts to 30 lakhs lbs.

Rural Development.

Forest Officers of all ranks associated themselves as far as war and civil supply works permitted, with works in connection with the Rural Development and during the course of their tours gave instructions to villagers on matters relating to the improvement of the economic, sanitary and social conditions of the people.

All meetings of the sub-committees of the District Rural Development Boards were attended by Forest Officers. No resolutions of importance affecting the Forest Department are reported to have been discussed except in East Khandesh where the Committee unanimously resolved to accept the classification of cattle "essential" and "non-essential" mentioned in the proposed revised grazing rules but proposed that "non-essential" cattle of local villages should not be charged any fee. The Committee further proposed that the limit of number of "essential" cattle for each economic holding of 10 acres dry land or 5 acres of irrigated land should be one pair of bullocks, one cow, two heifers, one buffalo and one calf.

In the Alibag, Nagothana and Panvel Ranges of the Kolaba Division depots were opened at convenient places for the supply of wood for agricultural implements at nominal rates.

The grain shops at Dahisar and Sawa in North Thana continued to be run departmentally for the benefit of settlers.

In the Surat Sub-Division the villagers were persuaded to prepare grass silo pits in the villages, under the supervision of the forest subordinates. The villagers have been convinced of the value of silage in the hot season.

In the West Khandesh District "Tree Planting Day" and "Tree Planting Week" were celebrated. Forest subordinates participated in these functions and encouraged the villagers to plant more trees. Seedlings and seeds of various tree species were supplied to them. The bunding of fields where necessary was encouraged in all forest settlements.

The Bombay Rural Broad Casting Scheme inaugurated by His Excellency the Governor of Bombay was taken advantage of and "Talks" on (1) the need for growing and preserving trees and (2) the necessity of taking anti-erosion measures were submitted by the Divisional Forest Officer, Poona, who also explained in a broadcast the type and causes of soil erosion and the damage it does to the land.

Exhibitions.

In the East Thana Division a forest stall was opened at the Central Dangi Cattle Show held at Khambala on 17th and 18th February 1945. Various kinds of timber and minor forest produce were exhibited and their uses were explained to villagers who visited the stall. The chief feature of the stall was a "Model of Rotational Grazing" which greatly interested the villagers.

Forest stalls were exhibits at the Agricultural Shows at Jalgaon in East Khandesh Division and at Sarangkhedha in West Khandesh Sub-Division, where the forest exhibits were also much appreciated by the visitors.

In the War Services Exhibition held at Poona, a landscape model was prepared under the direction of the land Improvement Officer, General. These ground models represented conditions of areas (i) 2000 years ago, (ii) at present (iii) after carrying out intensive improvements under the Land Development Schemes.

Post War Schemes.

There are four purely Forest Department Schemes, viz., Scheme No. 58 (Forest Rehabilitation), No. 59 (Communications), No. 60 (Buildings and wells) and No. 88 (Improvement of denuded areas). The first 3 schemes are to be introduced in particular areas while the last is to be introduced in concentrated areas.

Scheme No. 58 provides for the revision of working plans on a yield basis to compensate for excess timber taken out for war supply and also for planning for increased fuel yields from forests not exploited or partly exploited.

Scheme No. 59 provides for the reconstruction of forest roads damaged by heavy war time traffic and also for the construction of new roads required for exploitation of forest.

Scheme No. 60 provides for the construction of buildings and wells required for forest subordinates.

Scheme No. 88 pertains to improvement of denuded and eroded areas in forest proper, forest in charge of Revenue Department and possibly some afforestation of waste lands.

The Forest Department is also closely associated with schemes of the Agricultural Department for the improvement of land by control of erosion and conservation of water, and shortly after the close of the year a post of Special Conservator of Forest, planning was sanctioned to deal with the planning for the best use of lands over the whole Province and to make provision for supplies of timber, fuel and fodder where these do not now exist.

To obtain a closer estimate of the staff, materials costs, etc., required for the concentrated areas under the Bombay Reconstruction Plan 5 Talukas have been selected by Government viz., Satara (Satara District), Bulsar (Surat District), Khed (Ratnagiri District), Sangola (Sholapur District) and Athni (Belgaum District).

A meeting of heads of Departments was held at Satara on 22nd January 1945 to discuss the rough plans of post-war development of the Satara Taluka. At this meeting it was decided that the Forest Department should take over for management and improvement the 184 acres of forest now in charge of the Revenue Department and the 359 acres of Government waste lands in this taluka. These with 12,000 acres of dry zone forest in charge of the Forest Department are to be developed and improved by nala bunding; contour trenching with afforestation along the banks of the trenches; introducing better fodder grasses and controlling grazing under rotational grazing scheme. Detailed schemes with the estimates of cost are being drawn up.

Data for similar schemes are also being collected for the other talukas mentioned above.

Telephone line.

An extension of the telephone line from Dandeli to Gund and from Haliyal to Alnavar was sanctioned by Government shortly after the close of the year.

W. C. DE C. WALSH,
Chief Conservator of Forests,
Province of Bombay.

PRESS NOTE ON THE FOREST ADMINISTRATION REPORT FOR THE YEAR 1944-45.

The financial returns of 1944-45 are the highest ever recorded. The gross revenue expenditure and surplus rose to Rs. 3,13,80,982, Rs. 1,95,16,683 and Rs. 1,18,64,299 respectively. The corresponding figures for the previous year were Rs. 2,13,00,330, Rs. 1,16,99,929 and Rs. 96,00,491. Various causes contributed towards the increase in revenue, the chief of which were : the resale of charcoal purchased for civil supply ; the sale of a larger number of coupes in the Northern Circle and the higher prices received for coupes sold standing in the Northern and Central Circles and for some of the minor forest products.

The increase of expenditure was chiefly on account of the purchase of charcoal for resale for civil supply and of the higher cost of exploitation owing to increase in the cost of labour and transport.

There was again a large increase in the demands of the Defence Department for war timber supplies of all types and these were met to the greatest possible extent. Special war-exploitation outside working plans had to be expanded particularly in the Southern Circle. A new Band Mill was erected at Dandeli. This mill started operating in February 1945 and contributed towards an increase of outturn of accurately sawn timber with less wastage of raw material.

The post of the Utilization Conservator which was created for the organisation of supplies of material for the Defence Department was continued during the year and this Branch was responsible for the delivery of about 79 lakhs worth of timber of all types direct to the Defence Department.

The Forest Department had also to organise production of firewood and charcoal for heavy civil and military needs and was responsible for the greater part of the planning of the distribution of the production over the whole Province. Production of firewood from Government forests alone amounted to about 4,00,000 tons. These operations placed a still greater strain on the establishment and necessitated further departures from working plan prescriptions. The Bombay Charcoal and Firewood Trade Licensing Orders came into force over a number of districts during the year and over most of the remaining districts immediately after the close of the year. In addition to ordinary quality charcoal for civil and military needs, a supply of high grade charcoal for Producer Gas Plants was also undertaken.

The Forest Engineer was again responsible for the mechanical skidding of teak logs from the Nagzari Valley and maintained 2 Fordson skidders on this work during the year.

The Divisional Forest Officer, North Thana, continued to function as Liaison Officer, Military Grass Supply.

In spite of the additional work caused by the production, storage and despatch of war and civil supplies, the normal activities of the Department were carried on efficiently.

Owing to the heavy exploitation that has been done for the supplies of timber to the Defence Department, most Working Plans have been upset. The work of revising these Plans is now to be undertaken under the Post-War Reconstruction Scheme No. 58 which has been administratively approved by Government. A separate Working Plans Division for the Northern Circle is included under this scheme No. 58. This post was however created in advance towards the close of the year and the Divisional Forest Officer, Working Plans, Central Circle, who was holding the posts of the Divisional Forest Officer, Working Plans, Northern Circle and the charge of the territorial Sub-Division of West Khandesh was relieved of these posts to enable him to give full time to Working Plans work of the Central Circle. Subsequently, however, after the close of the year, a new post of Special Conservator of Forests, Planning, was created and the two Divisional Forest Officers, Working Plans, Northern Circle and Central Circle, together with their staff had to be placed under the Special Conservator, Planning.

The 6 Pasture Rotational Grazing Scheme known as Wai Scheme, which was introduced in 13 villages of the Wai Round of the Satara District Working Plan as an experimental measure in the year 1943-44 continued in operation. Instead of extending this scheme as was the original intention a fresh additional rotational grazing scheme, known as the 4-Pasture Rotational Grazing Scheme was drawn up and introduced in those areas of the Main and Pasture Working Circles of the Satara District Working Plan lying on either side of the M. & S. M. Railway line from Wathar in the North to Karad in the South. This scheme covers 35 villages and contains certain modifications which introduce improvements on the Wai 6-Pasture Scheme.

In the Northern Circle the difficulty of transport was relieved to some extent by release of iron for cart tyres by the Controller of Steel and Iron.

The controlled vehicle purchased last year for the North Thara Division was used for the transport of sawn timber from the Sawta mill to Dahanu Road Station and of ballies from road-side depots in forest to Railway stations.

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The Department continued to do what it could in the campaign for growing more food crops. Suitable forest lands were given out for cultivation wherever possible. About 8,000 acres of forests were given out under the agri-cum-silviculture system for the production of food crops in the Northern and Central Circles. In the Kolaba Division where the area given out was about 3,000 acres, the yield of the

crop amounted to 3,000 maunds of nagli and warai (Indian millets) valued at about Rs. 30,000 and this is reported to have supported about 5,000 to 6,000 Katkaris who needed employment in the rainy season.

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Scheme No. 58 provide for the revision of Working Plans on a yield basis to compensate for excess timber taken out for war supply and also for planning for increased fuel yields from forests not exploited or partly exploited.

Scheme No. 59 provides for the reconstruction of forest roads damaged by heavy war time traffic and also for the construction of new roads required for exploitation of forests.

Scheme No. 60 provides for the construction of buildings and wells required for forest Subordinates.

Scheme No. 88 pertains to improvement of denuded and eroded areas in forest proper, forest in charge of Revenue Department and possibly some afforestation of waste lands.

The Forest Department is also closely associated with schemes of the Agricultural Department for the improvement of land by control of erosion and conservation of water. The Special Conservator of Forests, Planning, is dealing with the Planning for the best use of lands over the whole Province with a view to making provision for supplies of timber, fuel and fodder where these do not now exist.

To obtain a closer estimate of the staff, materials, costs, etc. required for the concentrated areas under Bombay Reconstruction Plan, 5 Talukas have been selected by Government viz., Satara (Satara District), Bulsar (Surat District), Khed (Ratnagiri District), Sangola (Sholapur District) and Athni (Belgaum District).

A meeting of Heads of Departments was held at Satara on 22nd January 1945 to discuss the rough plans of post-war development of the Satara Taluka. At this meeting it was decided that the Forest Department should take over for management and improvement the 184 acres of forest now in charge of the Revenue Department and the 359 acres of Government waste lands in this Taluka. These with 12,000 acres of dry zone forest in charge of the Forest Department are to be developed and improved by nala bunding; contour trenching with afforestation along the banks

of the trenches; introducing better fodder grasses and controlling grazing under rotational grazing scheme. Detailed schemes with the estimates of cost are being drawn up.

Data for similar schemes are also being collected for the other talukas mentioned above.

An extension of the telephone line from Dandeli to Gund and from Haliyal to Alnavar was sanctioned by Government shortly after the close of the year.

The staff, both executive and clerical, did its heavy year's work in a commendable manner despite the very difficult circumstances.

(W. C. DE C. WALSH),
Chief Conservator of Forests,
Province of Bombay.

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FORM No. 51 (PART I).—Area of Reserved and

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1944	
			Acres	Equivalent in square miles
1	2	3	4	5
NORTHERN CIRCLE.				
Panch Mahals	Broach and Panch Mahals	Reserved	900,121	313
		Protected	.....	.....
North Thana	Thana	Reserved	239,597	859
		Protected	2,206	4
East Thana	Thana	Reserved	222,335	347
		Protected	.....	.....
West Thana	Thana	Reserved	216,143(a)	338
		Protected	7,791	12
East Nasik	Nasik	Reserved	414,257	679
		Protected	2,629	4
West Nasik	Nasik	Reserved	219,351	343
		Protected	56,169	88
Surat Sub-Division	Ahmednagar	Reserved	124,403	195
		Protected	6,556	10
	Surat	Reserved	60,698	79
		Protected	.....	.....
	Nasik	Reserved	13,755	23
		Protected	1,287	2
Total, Northern Circle		Reserved	1,764,616	2,759
		Protected	76,714	120
CENTRAL CIRCLE.				
East Khandesh	East Khandesh	Reserved	485,606	758
		Protected	.....	.....
West Khandesh	West Khandesh	Reserved	463,841	709
		Protected	.....	.....
West Khandesh Sub-Division	West Khandesh	Reserved	499,905	731
		Protected	.....	.....

APPENDICES

Protected Forests in charge of the Forest Department, 1944-45.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1945		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
	A. g.			Sq. M.	Sq. M.	Sq. M.	
.....	179	199,994	313	313	.....	.....
.....	
.....	.....	229,897	359	357	.....	2	
.....	.....	2,206	4	4	.....	.....
.....	.....	222,235	347	347	.....	.....
.....	
.....	.....	53,628	84	84	.....	.....
.....	
2,599(b)	.....	218,742	342	342	.....	.....
.....	96	7,765	12	12	.....	.....
.....	11	434,246	679	677	.....	2	
.....	.....	2,629	4	4	.....	.....
.....	6	219,375	343	343	.....	.....
.....	.....	56,169	89	88	.....	.....
.....	2	(c) 134,461	195	195	.....	.....
.....	.....	(c) 6,665	10	10	.....	.....
.....	.....	50,698	79	79	.....	.....
.....	
.....	.....	13,765	22	21	.....	.....
.....	.....	1,267	2	2	.....	.....
2,599	148	1,767,067	2,763	2,758	.....	4	
.....	26	76,692	120	120	.....	.....
.....	.....	485,605	758	758	.....	.....
.....	
.....	16,470	437,371	683	633	.....	.....
.....	
.....	.....	499,903	781	551	.....	130	
.....	

(a) Includes an area of 1,111 acres of Vihar Lake Forest belonging to the Bombay Municipal Corporation of the City of Bombay as per Government Notification No. 692/39 of 4th March 1941.

(b) Area transferred from the Central Circle as per G.R.R.D. No. 952/39 of 17th May 1944.

(c) Includes an area of 1,08 acres submerged by Bhandarkars Lake and of 183 acres used for forest roads which has been transferred to the Public Works Department, vide Commissioner, Central Division's No. F.O.R.O./2, dated 2nd September 1933.

FORM No. 51 (PART I).—Area of Reserved and

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1914	
			Acres	Equivalent in square miles
1	2	3	4	5
CENTRAL CIRCLE —contd.				
Poona	Poona	Reserved	236,235	370
	Do.	Protected	.....	.....
	Ahmednagar	Reserved	290	.....
	Do.	Protected	.....	.....
Kolaba	Kolaba	Reserved	279,237	436
	Do.	Protected	22,516	35
	Poona	Reserved	6,529	10
	Do.	Protected	.....	.....
Satara	Ratnagiri	Reserved	9,026	4
	Do.	Protected	.....	.....
	Satara	Reserved and Leas d.	331,453	518
	Do.	Protected	649	1
Total, Central Circle		Reserved and Leas d.	2,245,120	3,536
		Protected	23,159	36
SOUTHERN CIRCLE.				
Kanara, N. D.	Kanara	Reserved	335,153	524
Kanara, E. D.	Do.	Reserved	680,195	1,063
Kanara, W. D.	Kanara	Reserved	682,958	1,067
	Do.	Protected	2,366	4
Belgaum	Do.	Reserved	230,334	361
	Belgaum	Reserved	445,172	697
Dharwar-Bijapur	Do.	Protected	12	.....
	Dharwar	Reserved	161,298	252
	Bijapur	Reserved	155,105	242
	Total, Southern Circle.		Reserved	2,691,615	4,206
		Protected	2,378	4
Grand Total, Province of Bombay.		Reserved	6,751,351	10,550
		Protected	102,255	160

Protected Forests in charge of the Forest Department, 1944-45—contd.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1945		Tripartite classification.			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
.....	(d) 2,599	231,656	356	Sq. M. 348	Sq. M. 18	Sq. M. .....	.....
.....
.....	.....	290	.....	.....	.....	.....	.....
.....
.....	3	279,234	436	417	15	4	.....
.....	72	22,444	35	35	.....	.....	.....
.....	.....	6,529	10	10	.....	.....	.....
.....
.....	.....	2,026	4	4	.....	.....	.....
.....
.....	.....	331,452	518	518	.....	.....	.....
.....	.....	643	1	1	.....	.....	.....
.....	19,072	2,476,046	3,556	33,89	33	134	.....
.....	72	23,087	36	36	.....	.....	.....
.....	(f) 1	3:5:0:2	524	524	.....	.....	.....
.....	.....	650,195	1,063	786	277	.....	.....
(g) 7	(e) 26	652,940	1,067	760	307	.....	.....
.....	.....	2,306	4	.....	4	.....	.....
.....	(e) 11	230,813	361	361	.....	.....	.....
(h) 3	(e) 306 (h) 5	445,864	696	646	50	.....	.....
.....	.....	12	.....	.....	.....	.....	.....
.....	.....	161,298	252	244	.....	8	.....
.....	(e) 138	154,967	242	201	35	3	.....
10	486	2,691,39	4,205	3,522	672	11	.....
.....	.....	2,378	4	.....	4	.....	.....
2,809	16,706	6,734,254	10,524	9,869	705	149	.....
.....	98	102,157	160	156	4	.....	.....

(d) Are transferred to the Northern Circle as per G. R. R. D. No. 3524/39 of 17th May 1944.

(e) Disforestsments under section 27 of the Indian Forests Act.

(f) Transfers to other Departments.

(g) Afforestation under Section 20 of Indian Forests Act.

(h) Correction of errors as per F. S. O's Memoranda.

FORM NO. 51 (PART II).—Area of Reserved and

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1944	
			Acres	Equivalent in square miles
1	2	3	4	5
NORTHERN CIRCLE.				
Panch Mahals	Broach and Panch Mahals.	Reserved	.....	.....
	Do. do.	Protected	.....	.....
North Thana	Thana	Reserved	.....	.....
	Do.	Protected	86,264	135
East Thana	Thana	Reserved	.....	.....
	Do.	Protected	65,029	102
West Thana	Nasik	Reserved	273	.....
	Do.	Protected	.....	.....
East Nasik	Thana	Reserved	.....	.....
	Do.	Protected	73,551	115
West Nasik	Nasik	Reserved	19,974	31
	Do.	Protected	.....	.....
Sarat Sub-Division	Ahmednagar	Reserved	8,240	13
	Do.	Protected	.....	.....
Sarat Sub-Division	Nasik	Reserved	7,796	12
	Do.	Protected	.....	.....
Sarat Sub-Division	Ahmednagar	Reserved	64,060	100
	Do.	Protected	.....	.....
Sarat Sub-Division	Surat	Reserved	8,103	13
	Do.	Protected	.....	.....
Sarat Sub-Division	Ahmedabad	Reserved	8,614	13
	Do.	Protected	.....	.....
Total, Northern Circle		Reserved	117,030	182
		Protected	221,844	352

Protected Forests in charge of the Revenue Department, 1944-45.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1945		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
	A.			Sq. M.	Sq. M.	Sq. M.	
	80	86,184	135		135		
		55,029	102		102		
		273					
	1	73,560	115		115		
		19,974	31		31		
	90	8,220	13		13		
	8	7,793	12		10	9	
		64,060	100		100		
		8,103	13			13	
		8,634	13			13	
	23	117,057	183		164	28	
	81	224,763	352		352		

FORM No. 51 (PART II).—Area of Reserved and Protected

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1944	
			Acres	Equivalent in square miles
1	2	3	4	5
CENTRAL CIRCLE.				
East Khandesh	East Khandesh	Reserved	23,904	37
West Khandesh	West Khandesh	Reserved	7,951	13
West Khandesh Sub-Division.	Do.	Reserved	72,427	114
Poona	Poona	Reserved	159,294	247
	Ahmednagar	Reserved	.....	.....
Kolaba	Kolaba	Reserved	8,488	13
	Do.	Protected	24,523	38
	Ratnagiri	Reserved	9,509	15
Satara	Satara	Reserved	117,925	184
Ahmednagar and Sholapur.	Ahmednagar and Sholapur.	Reserved	403,775	631
	Total, Central Circle	Reserved	604,563	1,264
		Protected	24,523	39
SOUTHERN CIRCLE.				
Kanara, N. D.	Kanara	Protected	2,371	4
Kanara, E. D.	Do.	Protected	116,143	181
	Do.	Protected	8,571	13
Kanara, W. D.	Do.	Reserved	6,564	10
	Do.	Protected	3,694	7
Belgaum	Belgaum	Reserved	989	2
	Dharwar	Reserved	75,321	117
Dharwar-Bijapur	Bijapur	Reserved	18,367	29
	Total, Southern Circle	Reserved	192,241	330
Protected		131,072	205	
	Grand Total, Province of Bombay.	Reserved	1,021,884	1,696
		Protected	387,415	595

Forests in charge of the Revenue Department, 1944-45—contd.

Added during the year	Excluded or transferred to other head.	Area on 31st March 1945.		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
				Sq. M.	Sq. M.	Sq. M.	
.....	.....	23,904	37	.....	37	.....
.....	.....	7,951	13	.....	13	.....
.....	68	72,359	114	.....	114	.....
.....	157	168,127	247	.....	247	.....
.....	
.....	.....	8,488	13	.....	13	.....
.....	56	24,458	38	.....	38	.....
.....	.....	9,800	15	.....	15	.....
.....	.....	117,925	184	.....	180	4	
18	3	498,790	631	.....	631	.....
18	228	892,353	1,254	.....	1,250	4	
.....	65	24,458	38	.....	38	.....
.....	.....	2,371	4	.....	4	.....
.....	(a) 1	116,141	181	.....	181	.....
.....	(a) 1	8,570	13	.....	13	.....
.....	.....	6,564	10	.....	10	.....
.....	.....	3,994	7	.....	7	.....
.....	.....	989	2	.....	2	.....
.....	.....	76,321	119	.....	119	.....
.....	(a) 2	18,365	29	.....	29	.....
.....	2	102,239	160	.....	160	.....
.....	2	131,076	205	.....	205	.....
18	253	10,21,649	1,596	.....	1,564	32	
.....	148	330,297	595	.....	595	.....

(a) Areas disforested.

FORM No. 55.—Progress made in Working

Division	Area under sanctioned Working Plans					Area Work
	2 At commencement of year	3 Added during year	4 Deducted during year	At close of year		7 Plans under preparation
				5 Actual area	6 Percentage of total forest area (as shown in column 10)	
NORTHERN CIRCLE	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Per cent.	Sq. m.
<i>Reserved Forests in charge of the Forest Department.</i>						
Panoh Mahale	309	...	...	309	99	4
North Thana	359	...	...	359	100	...
East Thana	431	...	...	431	100	...
West Thana	338	4	...	342	100	...
East Nasik	679	...	...	679	100	...
West Nasik	539	...	...	539	100	...
Surat Sub-Division ...	99	...	...	99	99	...
Total of Reserved Forests in charge of the Forest Department.	2,754	4	...	2,758	99	4
<i>Protected Forests in charge of the Forest Department.</i>						
North Thana	4	...	...	4	100	...
West Thana	12	...	...	12	100	...
East Nasik ... ..	...	...	...	...	...	...
West Nasik	88	...	...	88	90	...
Surat Sub-Division ...	...	...	...	...	.....	...
Total of Protected Forests in charge of the Forest Department.	104	...	...	104	84	...
<i>Protected Forests in charge of the Revenue Department.</i>						
North Thana	195	...	...	195	100	...
East Thana	102	...	...	102	100	...
West Thana	115	...	...	115	100	...
Total of Protected Forests in charge of the Revenue Department.	352	...	...	352	100	...
<i>Forest belonging to Bombay Municipality.</i>						
...	5	...	...	5	100	...
Total, Northern Circle ...	3,214	4	...	3,219	99	4

Plans during the year 1944-45.

not under ing Plans		Total forest area in Form No. 51, Part I (Total of columns 5, 7, 8 and 9)	Revision			Expenditure on Working Plans during the year	Remarks	
Plans not under preparation			Due or required	In progress at end of year	Revised plans sanctioned during year			
Required at present	Not required at present							8	9	10	11	12	13	14
Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.		
...	...	313	...	...	...	.....
...	...	359	...	8	...	.....
...	...	431	...	...	...	.....
...	...	342	...	...	...	.....
...	...	679	...	...	...	.....
...	...	539	...	187	...	.....
...	1	100	100	...	...	.....
...	1	2,763	100	195	...	.....
...	...	4	...	...	...	.....
...	...	12	...	...	...	.....
4	...	4	...	...	...	.....
...	10	98	...	...	...	.....
2	...	2	...	...	...	.....
6	10	120	...	...	...	.....
...	...	135	...	...	...	.....
...	...	102	...	...	...	.....
...	...	115	...	...	...	.....
...	...	352	...	...	...	.....
...	...	5	...	...	...	.....	As per G. R., R.D., No. 80/3/39 of 17th February 1942.
6	11	3,240	100	195	...	.....

FORM NO. 55.—Progress made in Working

Division	Area under sanctioned Working Plans					Area Work Plans under preparation
	At commencement of year	Added during year	Deducted during year	At close of year		
				Actual area	Percentage of total forest area (as shown in column 10)	
1	2	3	4	5	6	7
CENTRAL CIRCLE						
<i>Reserved Forests</i>						
East Khandesh	757	...	...	757	99.9	...
West Khandesh	707	...	26(b)	681	99.7	...
West Khandesh Sub-Division	524	...	...	524	87.1	256(d)
Poona	368	...	4(c)	364	99.5	2(g)
Kolaba	434	...	...	434	96.4	...
Satara	493	...	...	493	100.0	...
Total	3,283	...	30	3,253	92.1	268
<i>Protected Forests</i>						
Kolaba	...	...	...	...	...	...
Satara	1	...	...	1	100.0	...
Total	1	...	...	1	2.8	...
<i>Leased Forest</i>						
Satara	21	...	...	21	84.0	4
Total, Central Circle	3,305	...	30	3,275	91.2	269
SOUTHERN CIRCLE						
Kanara, Northern Division	345	...	...(a)	345	66	...
Do. Eastern do.	409	...	...(a)	409	86	506(b)
Do. Western do.	407	...(a)	...(a)	407	38	...
Belgaum do.	420	...(a)	...(a)	420	40	...
Dharwar-Bijapur do.	429 +19(c)	...	...(a)	429 +19(c)	87	...
Total, Southern Circle	2,010 +19(c)	...	...	2,010 +19(c)	48	506
Grand Total, Province of Bombay.	8,548	4	80	8,523	77	773

Plans during the year 1944-45—contd.

not under ing Plans		Total forest area in Form No. 51 Parts I (Total of columns 5, 7, 8 and 9)	Revision			Expenditure on Working Plans during the year	Remarks
Plans not under preparation	Required at present		Not required at present	Due or required	In progress at end of year			Revised plans sanctioned during year
Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	
...	1(a)	758	...	...	...	.....	(a) Area afforested in Scrub jungles.
...	2(c)	688	...	288(i)	...	.....	(b) Area of settlement disforested.
...	1(e)	781	...	119(j)	...	.....	(c) Areas afforested in Taloda Range.
...	...	866	...	...	...	.....	(d) Sakri, Pimpalner and Dhulia Scrub.
...	16(h)	430	...	...	...	.....	(e) Area afforested in Sitapur Range.
...	...	493	...	...	...	.....	(f) Area transferred to West Thana Division of Northern Circle.
...	20	3,531	...	351	...	.....	(g) Area afforested in Poona Range.
...	35	35	...	...	...	.....	(h) Area taken over from the Revenue Department.
...	...	1	...	...	...	.....	(i) 171 Nawapur-Nandurbar Working Plan.
...	85	36	...	...	...	.....	52 Deomogra Working Plan.
...	...	25	...	...	...	.....	9 Umarpata Pf.
...	65	2,602	...	351	...	.....	239
...	179	634	...	199	...	.....	(j) 107 Dhulia-Pimpalner-Anjan Working Plan.
148	...	1,063	...	57	...	6,550	12 Umarpata Pf.
...	664	1,071	69	137	...	.....
94	543	1,057	...	350	...	123	
...	66	494 + 19(c)	350	...	...	.....
242	1,451	4,309 + 15(c)	419	743	...	6,673	
248	1,517	11,060	519	1,289	...	6,673	

(a) The areas excluded from and included in the sanctioned Working Plans as per Chief Conservator's No. 37,2273 of 12th/16th September 1944 have been taken into account only where they are about 1/2 Sq. mile or more in the case of each Division.

(b) Sandal bearing areas in Sirei Siddapur Range.

(c) In charge of the Revenue Department but included in Sandalwood working plan for working sandalwood trees.

FORM No. 58.—Area of Forest Tracts protected from fire during 1944-45.

Division	Area in square miles		Percentage of forests under fire protection to total area of reserves	Percentage of failures to area attempted		Remarks
	Attempted	Protected		Average of past 5 years	During the year	
1	2	3	4	5	6	7
NORTHERN CIRCLE.						
Panch Mahals ...	313	277	100	7.2	11.5	
North Thana ...	363	345	100	3.4	4.9	
East do. ...	431	403	100	6.1	6.7	
West do. ...	354	327	100	4.3	7.6	
East Nasik ...	683	657	100	0.5	3.7	
West do. ...	686	615	100	1.0	3.3	
Surat Sub-Division ...	102	95	100	1.2	6.8	
Total, Northern Circle.	2,892	2,718	100	3.1	6.7	
CENTRAL CIRCLE.						
East Khandesh ...	768	530	100	15.1	30.0	
West do. ...	683	611	100	10.4	10.5	
West Khandesh Sub-Division.	781	674	100		13.7	
Poona ...	366	325	100	2.3	11.3	
Kolaba ...	486	471	100	2.0	2.8	
Satara Sub-Division...	519	501	100	0.9	3.4	
Total, Central Circle.	3,592	3,112	100	8.1	13.4	
SOUTHERN CIRCLE.						
Kanara, N. D. ...	71	69	14.0	1.1	2.8	
Do. E. D. ...	154	143	14.0	1.6	7.1	
Do. W. D. ...	71	69	7.0	3.9	2.8	
Belgaum ...	58	57	5.0	4.2	1.7	
Dharwar-Bijapur ...	494	469	100.0	1.3	1.0	
Total, Southern Circle.	848	827	90	1.8	2.5	
Grand Total, Province of Bombay.	7,322	6,657	62	5.4	9.1	

FORM No. 59.—*Causes of Forest Fires*
during 1944-45.

Circles and Divisions	Fires originating in departmental fire conservancy operations		External fires crossing the fire traces	
	No. of fires	Area burnt acres	No. of fires	Area burnt acres
1	2	3	4	5
NORTHERN CIRCLE.				
Panch Mahals
North Thana
East do.	9	1,017
West do.	1	3
East Nasik
West do.
Surat Sub-Division
Total, Northern Circle	10	1020
CENTRAL CIRCLE.				
East Khandesh	7	4,745
West Khandesh	20	20,198
West Khandesh Sub-Division
Poona	9	90	4	208
Kolaba	23	1,003
Satara	8	441
Total, Central Circle ...	9	90	62	26,595
SOUTHERN CIRCLE.				
Kanara, N. D.
Do. E. D.	2	282
Do. W. D.
Belgaum Division
Dharwar-Bijapur Division
Total, Southern Circle	2	282
Grand Total, Bombay Province ...	2	90	74	27,847

Forest Fires during 1944-45.

Fires beginning inside the reserved or fire-traced areas				Fires due to causes unknown		Total	
Owing to carelessness of outsiders or due to accident		Owing to intentional or malicious firing					
No. of fires	Area burnt acres	No. of fires	Area burnt acres	No. of fires	Area burnt acres	No. of fires	Area burnt acres
6	7	8	9	10	11	12	13
139	13,251	106	9,707	.....	.....	247	22,958
.....	.....	.....	.....	122	11,666	122	11,666
5	187	1	2	137	17,115	152	18,321
.....	.....	.....	.....	157	17,486	158	17,489
4	334	.....	.....	166	16,303	170	16,647
23	617	.....	.....	189	12,891	212	13,608
38	4,488	.....	.....	.....	.....	38	4,488
909	1,8887	109	9,709	771	75,461	1,099	106,077
13	4,180	.....	.....	161	136,886	181	145,909
7	313	.....	.....	60	25,644	87	46,155
16	3,976	.....	.....	175	64,641	191	68,617
16	1,008	.....	.....	242	24,622	264	25,926
8	161	.....	.....	125	7,859	156	9,023
187	4,947	6	167	119	5,992	280	11,547
187	14,585	6	167	852	265,642	1,139	3,7,079
2	22	.....	.....	32	9,863	34	9,885
26	4,980	1	5	20	1,732	49	5,929
.....	.....	.....	.....	32	1,180	32	1,180
19	2,238	.....	.....	.....	.....	19	2,238
.....	.....	.....	.....	24	3,293	24	3,293
47	7,229	1	5	106	15,066	158	23,525
443	49,694	116	9,861	1,761	357,171	2,306	435,651

The figures in columns 12 and 13 include one contract area case and the area burnt respectively.

Columns 6 and 7—By carelessness of workmen employed by purchasers, cutters, villagers, travellers, etc., or by accident due to railway engine, lightning, fire balloons.

Columns 8 and 9—Intentional firing in order to obtain new grass or to turn out game or reduce cover or malicious firing.

FORM No. 60.—Area closed and open to grazing during 1944-45.

Division	Area closed to grazing of all animals throughout the year	Area open to grazing throughout the year		Balance, i.e., area open to grazing for a part of the year (and therefore closed for the remainder)		Total
		Of all animals	Of non-browsers only	Of all animals	Of non-browsers only	
1	2	3	4	5	6	7
NORTHERN CIRCLE.						
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.
Panch Mahals	35	...	269	19	...	313
North Thana	18	136	345	...	...	498
East do.	51	109	379	1	...	538
West do.	19	115	335	...	...	469
East Nasik	68	253	377	80	...	727
West do.	44	223*	468	11	...	746
Ahmedabad ... ..	...	13	...	...	...	13
Surat Sub-Division ...	31	16	69	...	...	115
Total, Northern Circle ...	266	855	2,232	61	...	3,414
CENTRAL CIRCLE.						
East Khandesh	128	49	445	...	172	795
West Khandesh	61	13	622	...	...	696
West Khandesh Sub-Division	146	128	578	...	43	895
Poona	37	948	23	...	41	613
Koelaba	31	104	414	...	4	551
Satara	23	185	474	...	21	703
Ahmednagar and Sholapur ...	...	631	...	...	...	631
Total, Central Circle ...	426	1,356	2,821	...	281	4,884
SOUTHERN CIRCLE.						
Kanara, N. D.	41	4	483	...	...	528
Do. E. D.	32	1,212	...	...	...	1,244
Do. W. D.	9	1,065	...	...	...	1,074
Belgaum	83	8	370	...	...	1,066
Dharwar-Bijapur	50	168	424	...	...	642
Total, Southern Circle ...	220	2,477	1,277	...	...	4,574
Grand Total, Province of Bombay ...	912	4,688	6,930	61	281	12,872

* Excluding 2 square miles submerged in Bhandardara Lake.

FORM No. 61.—*Return of Grazing in the State Forests
during 1944-45.*

FORM No. 61.—Return of Grazing in

Division	Grazing					
	At Full Rates					
	Buffaloes	Cows and Bulls	Goats and Sheep	Camels	Other animals	Fees received
1	2	3	4	5	6	7
NORTHERN CIRCLE	No.	No.	No.	No.	No.	Rs.
<i>Reserved and Protected Forests</i>						
Panch Mahals ...	130	541	.....	.....	.....	661
North Thana ...	.....	9	.....	.....	.....	9
East do. ...	.....	18	.....	.....	.....	18
West do. ...	.....	.....	.....	.....	.....	.....
East Nasik ...	28	40	18	.....	.....	73
West do. ...	.....	.....	.....	.....	.....	.....
Surat Sub-Division ...	.....	.....	.....	.....	.....	.....
Total, Northern Circle...	148	608	18	.....	.....	761
CENTRAL CIRCLE						
East Khandesh ...	236	1,958	.....	.....	1	2,195
West do. ...	16	834	.....	.....	31	881
West Khandesh Sub-Division.	2,818	4,980	.....	.....	329	8,126
Poona ...	23	136	.....	.....	.....	165
Kolaba ...	.....	.....	.....	.....	.....	.....
Satara ...	.....	.....	330	.....	.....	83
Total ...	3,093	7,908	330	.....	360	11,450

the State Forests during 1944-45.

on payment

At Privileged Rates

8	9	10	11	12	Fees received	
					13	14
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Actual	Value at full rates
No.	No.	No.	No.	No.	Rs.	Rs.
85	824 40	(a) 0 8 0 (a) 0 6 0			470	949
55	864				470	949
1	2,015 16				1,008 8	2,015 17
1	2,031				1,016	2,033

(a) Information being not supplied by the village officers last year's figures are taken

FORM No. 61.—Return of Grazing in

Division	By right under Settlement						Grazing
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates	
	15	16	17	18	19	20	
NORTHERN CIRCLE	No.	No.	No.	No.	No.	Rs.	
<i>Reserved and Protected Forests</i>							
Panch Mahals ...	.....	.....	.....	.....	.....	.....
North Thana ...	.....	.....	.....	.....	.....	.....
East do. ...	.....	.....	.....	.....	.....	.....
West do. ...	.....	.....	.....	.....	.....	.....
East Nasik ...	.....	.....	.....	.....	.....	.....
West do. ...	.....	.....	.....	.....	.....	.....
Gurat Sub-Division ...	.....	.....	.....	.....	.....	.....
Total, Northern Circle...	.....	.....	.....	.....	.....	.....
CENTRAL CIRCLE							
East Khandesh ...	.....	.....	.....	.....	.....	.....
West do. ...	.....	.....	.....	.....	.....	.....
West Khandesh Sub-Division.	.....	.....	.....	.....	.....	.....
Poona ...	.....	.....	.....	.....	.....	.....
Kolaba ...	380	1,141	.....	.....	.....	1,521
Satara ...	14	40	.....	.....	.....	54
Total ...	394	1,181	.....	.....	.....	1,575

the State Forests during 1944-45—contd.

free							Grand Total of value at full rates
During pleasure of Government or otherwise than under Settlement						Total value of fees at full rates col. 20 + col. 26	
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates		
21	22	23	24	25	26	27	28
No.	No.	No.	No.	No.	Rs.	Rs.	Rs.
15,339	70,971	.....	.....	17,900	1,03,594	1,03,594	1,04,255
2,923	59,813	.....	.....	.....	73,736	73,736	73,694
69,663	102,123	.....	.....	.....	1,64,786	1,64,786	1,64,804
93,171	78,908	868	.....	610	1,01,907	1,01,907	1,01,907
13,670	97,724	92,998	.....	1,815	1,36,459	1,36,459	1,36,533
13,832	109,516	7,372	.....	298	1,24,489	1,24,489	1,24,489
3,275	18,987	.....	.....	.....	22,262	22,262	22,262
142,867	538,043	101,238	.....	20,013	7,26,233	7,26,233	7,27,943
44,165	106,096	.....	.....	406	1,50,667	1,50,667	1,52,863
12,271	60,354	.....	.....	457	73,652	73,682	74,563
17,533	74,270	19,600	.....	1,409	98,112	98,112	1,08,253
19,103	129,358	27,025	.....	597	1,55,332	1,55,332	1,56,014
13,578	31,811	120	.....	129	44,543	46,069	46,069
13,470	36,807	17,823	.....	(a) 90	54,763	54,817	54,900
119,190	439,296	64,366	.....	3,028	5,77,634	5,79,179	5,92,661

(a) Remark as on page 21.

FORM No. 61.—Return of Grazing in

Division	Grazing					
	At Full Rates					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Fees received
1	2	3	4	5	6	7
SOUTHERN CIRCLE.	No.	No.	No.	No.	No.	Rs.
Kanara N. D. ...	.....	.....	.....	.....	.....	.....
Do. E. D. ...	.....	.....	.....	.....	.....	.....
Do. W. D. ...	.....	.....	.....	.....	.....	.....
Belgaum ...	69	105	.....	.....	.....	175
Dharwar-Bijapur ...	29	180	.....	.....	.....	149
Total, Southern Circle...	98	285	.....	.....	.....	324
Grand Total, Province of Bombay.	3,345	8,743	348	.....	360	12,535

the State Forests during 1944-45—contd.

on payment

At Privileged Rates

Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Fees received	
					Actual	Value at full rates
8	9	10	11	12	13	14
No.	No.	No.	No	No.	Rs.	Rs.
86	9,895				1,486	2,681

FORM No. 61.—Return of Grazing in

Division	Grazing					
	By right under Settlement					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates
1	15	16	17	18	19	20
SOUTHERN CIRCLE.	No.	No.	No.	No.	No.	Rs.
Kanara N. D.	.....	.....	.....	.....	.....	.....
Do. E. D.	.....	.....	.....	.....	.....	.....
Do. W. D.	.....	.....	.....	.....	.....	.....
Belgaum	.....	.....	.....	.....	.....	.....
Dharwar-Bijapur	.....	.....	.....	.....	.....	.....
Total, Southern Circle...	.....	.....	.....	.....	.....	.....
Grand Total, Province of Bombay.	394	1,181	.....	.....	.....	1,575

the State Forests during 1944-45—contd.

free							Grand Total of value at full rates
During pleasure of Government or otherwise than under Settlement						Total value of fees at full rates, col. 26 + col. 27	
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates		
21	22	23	24	25	26	27	28
No.	No.	No.	No.	No.	Rs.	Rs.	Rs.
4,440	21,628	.....	.....	2	26,130	26,130	26,130
12,163	67,306	1,067	.....	27	80,562	80,562	80,562
19,310	62,301	475	.....	.....	82,066	82,066	82,066
24,300	54,553	.....	.....	.....	78,850	78,850	79,025
23,862	60,069	61,722	.....	1,404	1,47,057	1,47,057	1,47,206
84,076	265,913	63,264	.....	1,433	4,14,685	4,14,685	4,15,009
346,062	12,43,152	239,140	.....	24,474	17,18,522	17,20,097	17,35,613

FORM NO. 63.—*Outturn (in thousand cubic feet, solid) of Timber*

Division 1	Timber					Government 7
	Government 2	Purchasers 3	Free Grantees 4	Right and privilege holders 5	Total 6	
NORTHERN CIRCLE.						
Reserved Forest	c. ft. 436	c. ft. 3,007	c. ft. 13	c. ft. ...	c. ft. 3,456	c. ft. 2,569
Protected Forest	118	973	1	...	1,092	77
Unclassed Forest	2	286	1	...	289	...
Total, Northern Circle ...	556	4,266	15	...	4,837	2,945
CENTRAL CIRCLE.						
Reserved Forest	337	1,965	12	...	2,334	1,050
SOUTHERN CIRCLE.						
Reserve Forest	3,907	630	19	56	4,612	5,504
Protected Forest ... ..	...	...	...	...	...	...
Unclassed Forest ... ..	...	...	...	...	...	...
Malki Lands ... ..	...	...	...	...	...	...
Total, Southern Circle ...	3,907	630	19	56	4,612	5,504
Grand Total, Province of Bombay ...	4,800	6,881	46	56	11,768	9,500

N. B.—Charcoal should be shown by its equivalent in fuel, the quantity of wood consumed in producing it being entered in cubic feet. Solid.
In remarks Column of this form it should be shown which of the figures entered in it are actuals and which are only estimate it being also noted in the latter case how figures have been arrived at.

and Fuel during the year 1944-45 and Agency of Exploitation.

Fuel				Total Outturn							Remarks
Purchasers	Free Grantess	Right and pri- vilege holders	Total	Timber and fuel	Sandalwood		Rejected Sandalwood				
					Billets, roots, etc.		Trees, billets, branches, roots, chips, etc.				
					Scented	Unscen- ted.	Number.	C.ft.	Cartloads		
8	9	10	11	12	13	14	15	16	17	18	
c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	T. C. Q. lbs.	T.C.Q.lbs.				No.	
12,759	...	10,614	26,242	22,698	.....	...	...	...	...	...	...
4,092	...	408	4,577	5,669	.....	...	...	...	...	...	...
1,931	1,231	1,520	.....	...	...	...	...	...	...
18,082	...	11,022	32,050	26,887	.....	...	...	...	...	...	...
7,169	4	4,772	12,995	15,329	0 2 3 19	0 6 0 0	11 trees.	...	...	...	...
2,863	...	6,122	14,479	19,091	123 5 2 21	...	(a) 815 (b) 5,163 (c) 5,367	...	(d) 293	...	...
...
Nil
...
9,858	...	6,122	14,479	19,091	123 5 2 21	...	(a) 815 (b) 5,166 (c) 5,367	...	(d) 293	...	...
25,104	4	21,916	59,524	71,307	123 8 2 5	1 6 0 0	(a) 826 (b) 5,166 (c) 5,367	...	(d) 293	...	...

(a) Trees.
(b) Branches and pieces.
(c) Roots and stumps;
(d) Chips.

FORM No. 64.—*Outturn of Minor Forest Produce during the year 1944-45.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Government Agency		By purchasers		By Free-grants		By Right holders		Quantity	Value
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value		
NORTHERN CIRCLE										
<i>Reserved Forests.</i>										
Bamboos	197	55,491	127	64,527					1,20,342	
Grass and grazing	83,742	94,367		9,67,022					11,00,111	
Apta—Temburani leaves		1,55,254		3,011					1,58,935	
Karvi		2,773		20,408					23,131	
Stones and sand		2,269	2,692	10,368					15,319	
Hirda		4,303							4,303	
Ain bark		219							229	
Guta					753				753	
Thorns		1,084		17,101					18,195	
Rosha Grass		4,730							4,700	
Dead leaves		247							237	
Chithar Bark		2,078							2,778	
Tatwari Bark		831							841	
Karanj Fruit		267							277	
Mohura flowers		262							262	
Palm leaves	43	223							246	
Mangra		398							398	
Bel leaves		162							162	
Plantain leaves		49							43	
Dutan sticks		476							476	
Kilchen		96							96	
Litoo		277							277	
Ghot bor		151							151	
Whir matt		35							35	
Sapli leaves		415							415	
Anjan leaves		641							641	
Miscellaneous	639	2,032		34,393					37,069	
Total	84,501	2,84,044	2,519	11,07,638					14,79,104	
<i>Protected Forests.</i>										
Bamboos				11,064					11,064	
Karvi				4,193					4,193	
Thorns				1,427					1,427	
Grass and grazing				1,59,470					1,59,470	
Stones and sand				2,000					2,000	
Miscellaneous				9,070					9,070	
Total				1,87,224					1,87,224	
Total, Northern Circle.	84,501	2,84,044	2,819	12,94,862					16,65,328	

FORM No. 64.—*Outturn of Minor Forest Produce during the year 1944-45—contd.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total
	By Govern- ment agency		By purchasers		By free- grants		By Right holders		
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
CENTRAL CIRCLE		Rs.		Rs.		Rs.		Rs.	Rs.
<i>Reserved Forests</i>									
Bamboos	2								2
Grass and other minor produce.	5,917								5,917
Bamboos				25,486		1,155			26,641
Grass and grazing				1,67,379		20		6,72,153	8,39,557
Tarward Bark				3,317					3,317
Apta tembhorni leaves.				31,586				4,166	35,741
Ghatbor fruit.				5,590					5,590
Rosha grass				30,612					30,612
Meta. Murum, Sand, Earth and Stone.				1,793		2,651		14,170	18,550
Mhowra flowers				1,683					1,683
Nirgudi and Shirali				3,187					3,187
Anjan leaves				2,840					2,840
Thorns				2,766		236			3,002
Safed Musali				1,400					1,400
Gum				19,789					19,789
Hirda and Shikakai				9,764					9,764
Rabul pods				4,403					4,403
Honey and Wax								5,027	5,027
Chilar Bark				2,603					2,603
Lac				767					767
Miscellaneous				5,286		178		93,315	98,779
Total, Reserved Forest	5,919			3,14,137		4,240		7,55,625	11,13,121
<i>Protected Forests</i>									
Stones and Murum				57					57
Miscellaneous				96					96
Total, Protected Forests				153					153
<i>Leased Forests</i>									
Grass and grazing				1,253					1,253
Stones				41					41
Air wroot				11,004					11,004
Miscellaneous				4					4
Total, Leased Forests				12,350					12,350
Total, Central Circle	5,919			3,26,520		4,240		7,55,625	11,25,604

FORM No. 64.—*Outturn of Minor Forest Produce during the year 1944-45—contd.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Government agency		By purchasers		By free-grants		By right holders			
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
SOUTHERN CIRCLE		Rs.		Rs.		Rs.		Rs.		Rs.
<i>Reserved Forests</i>										
Bamboos	1,751		1,19,458		281		3,395			1,17,885
Grass and Grazing			438				4,21,555			4,20,993
Bandurbi			478							478
Canes			10,368				3,598			13,966
Creepers and Karvi			186		1		1,660			1,847
Harda and Shigekai			14,087				60			14,137
Halmaddi Dhup			12,352							12,352
Honey and wax			5,603							5,603
Hulgal seed	6		1,678							1,684
Metal			96		135		960			491
Murum			706		37		537			1,280
Soppu			24		16		2,810			2,850
Stakes and pegs			18		19		1,960			2,017
Stones			3,439		14		1,765			6,928
Palms and leaves			1,702		14		1,410			3,126
Tarwad bark			534							534
Thorns			573				1,295			1,668
Tumri leaves			10,055							10,055
Miscellaneous	16		5,546				212			5,774
					<i>Protected Forest.</i>					
					Nil.					
					<i>Unclassed Forest.</i>					
					Nil.					
					<i>Maliki Lands</i>					
					Nil.					
Total, Southern Circle ...	1,773		1,80,041		517		4,99,537			6,21,868
GRAND TOTAL BOMBAY PROVINCE-	92,293		7,90,705		7,576		25,23,294			14,13,798

FORMS Nos. 65 and 66.—*Account of Timber and other Produce cut
or collected by Government Agency and brought to Depots, sold
locally or otherwise disposed of during the year 1944-45.*

COMBINATION OF FORMS NOS. 65 AND 66.—*Account of Timber and Depôts, sold locally or otherwise disposed*

Name of Division or Range	Balance at commencement of the year in Forest and Sale Depôts		Received during the year
	2	3	4
NORTHERN CIRCLE.			
	C.ft.	Rs.	C.ft.
Panch Mahals—			
Teak	45,798	8,587	2,01,388
Total ...	45,798	8,587	2,01,388
North Thana—			
Teak	76,840	19,210	63,485
Injaili	75,020	5,861	41,008
Total ...	1,51,860	25,071	1,04,493
East Thana—			
Teak	18,133	3,023	6,428
Injaili	33,711	2,810	35,385
Total ...	51,844	5,833	41,813
West Thana—			
Teak	42,738	21,370	98,720
Injaili	41,059	10,265	45,714
Total ...	83,797	31,635	1,42,434
East Nasik—			
Teak	59	30	58
Injaili ... ..	.....	.....	.....
Total ...	59	30	58
West Nasik—			
Teak	7,930	3,965	13,731
Injaili	4,271	6,663	273
Total ...	12,201	10,628	19,004
Surat Sub-Division—			
Teak	5,207	2,890	36,818
Injaili	406	250	9,852
Total ...	5,613	3,140	46,700
Total, Timber {			
Teak ...	1,96,705	59,075	4,23,628
Injaili ...	1,54,467	25,849	1,32,262
Total ...	3,51,172	84,924	5,55,890
Fuel—			
Panch Mahals	19,870	621	40,429
North Thana	7,93,163	620	4,75,865
East Thana	59,930	149	16,16,843
West Thana	9,135	182	2,35,075
East Nasik	1,375	14	2,886
West Nasik	6,04,326	1,09,880	5,55,100
Surat Sub-Division ...	13,200	137	20,337
Total, Fuel ...	15,00,999	1,11,603	29,46,335
Total, Timber and Fuel ...	19,52,171	1,96,527	35,02,225

Note.—Timber and fuel to be given in cubic feet; other minor produce in money.

other Produce cut or collected by Government Agency and brought to of during the year 1944-45.

Total	Disposed of during the year	Balance in hand at close of the year in Forest and Sale Depôts		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
2,47,186	1,87,443	59,743	11,202	2,615	.....
2,47,186	1,87,443	59,743	11,202	2,615	.. ..
1,40,325	43,659	96,666	24,166	4,956	.....
1,16,028	74,030	41,998	3,261	.....	2,580
2,56,383	1,17,689	1,38,664	27,447	4,956	2,580
24,561	10,635	13,926	2,321	.....	702
69,096	63,266	5,830	487	.....	2,323
93,657	73,901	19,756	2,808	.. ..	3,025
1,39,458	1,20,851	18,607	9,304	.....	12,066
86,773	70,332	16,441	4,110	.....	6,155
2,26,231	1,91,183	35,048	13,414	.....	18,221
117	50	67	35	5	....
.....
117	50	67	5	5	.....
26,661	16,673	9,988	4,995	1,030	.....
4,544	2,427	2,117	1,194	.....	5,469
31,205	19,100	12,105	6,189	1,030	5,469
42,025	36,244	5,781	7,290	4,400	.....
10,288	8,606	1,682	1,747	1,497	.....
52,313	44,850	7,463	9,037	5,897	.....
6,20,333	4,15,555	2,04,778	59,313	13,006	12,768
2,86,729	2,18,661	68,068	10,819	1,497	16,527
9,07,062	6,34,216	2,72,846	70,122	14,503	29,295
60,299	21,970	38,329	1,198	577	.....
12,69,028	2,95,224	9,73,804	700	140	.....
16,76,573	13,97,809	2,78,764	48,345	48,196	.....
2,44,210	2,27,460	16,750	261	79	.....
4,261	1,169	3,092	31	17	.....
11,59,426	6,43,226	5,16,200	2,27,128	1,17,248	.....
33,537	32,000	1,537	79	.....	58
44,47,334	24,18,858	18,28,476	2,77,802	1,66,257	58
53,54,396	32,53,074	21,01,322	3,47,934	1,80,760	29,353

COMBINATION OF FORMS NOS. 65 AND 66.—*Account of Timber and depôts, sold locally or otherwise disposed*

Name of Division		Balance at commencement of the year in forest and sale depôts	Received during the year
1		2	3
NORTHERN CIRCLE—contd.		C.ft.	Rs.
<i>Charcoal.</i>			C.ft.
North Thana	...	1,58,800	26,86,355
East Thana	...	2,33,946	5,12,774
West Thana	...	39,472	6,88,232
West Nasik	...	.....	13,000
Total	...	4,31,718	39,00,361
<i>Bamboos.</i>		Rs.	Rs.
Panch Mahals	...	.....	185
North Thana	...	205	.....
Surat Sub-Division	...	.....	17
Total	...	205	202
<i>Other minor produce.</i>			
Panch Mahals	...	.....	83,942
North Thana	...	.....	17
West Thana	...	.....	23
West Nasik	...	.....	422
Total	...	.....	84,404
CENTRAL CIRCLE.		C.ft.	C.ft.
<i>Timber.</i>		Rs.	
East Khandesh	...	2,976	5,058
West Khandesh	...	56,269	1,41,701
West Khandesh Sub-Division	...	1,419	6,380
Poona	...	23	2,758
Kolaba	...	10,544	1,75,399
Satara	...	11	2,743
Total	...	74,272	3,37,860
<i>Fuel.</i>			
East Khandesh	...	7,763	25,847
West Khandesh	...	2,32,350	4,38,165
West Khandesh Sub-Division	...	23,676	73,198
Poona	...	1,11,040	13,920
Kolaba	...	17,075	54,058
Satara	...	2,11,139	4,15,009
Total	...	6,33,490	10,50,287
Total, Timber and Fuel	...	7,12,762	13,87,667

other produce cut or collected by Government Agency and brought to of during the year 1944-45—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depôts		Difference in value	
				In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
28,44,655	28,41,377	3,278	2,194	.....	48,572
7,46,720	7,93,843	42,877	27,013	.....	1,36,749
7,27,364	7,27,704	.....	.....	.....	18,796
18,090	4,500	8,200	2,289	2,289	.....
43,33,079	42,77,724	54,356	31,436	2,289	2,04,117
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
185	185	.....	.....	.....	.....
205	.....	205	.....	.....	.....
17	12	5	.....	5	.....
407	197	210	.....	5	.....
83,912	83,942	.....	.....	.....	.....
17	17	.....	.....	.....	.....
23	23	.....	.....	.....	.....
422	422	.....	.....	.....	.....
84,401	51,404	.....	.....	.....	.....
Net difference against the year = 50,416.					
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
8,031	8,458	1,546	2,272	785	.....
1,97,970	1,71,226	26,744	34,628	.....	1,08,524
10,949	5,433	5,506	688	136	.....
2,782	1,222	558	369	343	.....
1,89,131	1,64,917	24,217	2,437	.....	1,217
2,784	2,500	284	656	615	.....
4,41,632	3,49,376	62,276	1,01,081	1,879	1,09,741
39,610	22,535	11,075	1,556	.....	56
6,70,715	2,89,567	4,37,156	47,593	38,218	.....
1,91,861	65,211	33,650	4,738	4,196	.....
1,54,130	1,19,245	14,885	2,211	.....	27,371
71,133	34,821	11,367	6,618	1,919	.....
6,59,398	4,67,739	2,92,752	32,912	.....	567
16,88,577	9,29,138	7,60,939	93,316	44,463	27,933
21,00,429	12,78,814	8,21,619	1,94,397	46,342	1,37,734

COMBINATION OF FORMS NOS. 65 AND 66.—*Account of Timber and depôts, sold locally or otherwise disposed*

Name of Division	Balance at commencement of the year in forest and sale depôts		Received during the year
	1	2	3
CENTRAL CIRCLE—contd.			
<i>Pre-empted timber.</i>			
West Khandesh Division—			
Haldni and Kalam logs ... ..	.....	.....	8,961
Teak logs ... ..	.....	.....	28,919
Total ... ..	.....	.....	37,900
<i>Pre-empted charcoal.</i>			
Poona /	13,218	9,520	51,725
Kolaba	15,30,195	10,86,439	41,36,448
Total	15,43,413	10,95,959	41,90,173
	Rs.	Rs.	Rs.
Sandalwood ... ..	.....	.....	998
Bamboos ... ..	.....	5	.....
Grass and other minor produce ... ..	.....	58	5,914
	* Out of Rs.	5, Rs. 3 have	been wrongly
SOUTHERN CIRCLE.			
<i>Timber.</i>			
	C.ft.	Rs.	C.ft.
Kanara, Northern Division—			
Teak	12,52,695	18,40,040	11,42,765
Blackwood	36,327	52,198	31,277
Junglewood	1,89,648	3,01,166	3,76,238
Total	14,79,170	21,93,404	15,50,300
Kanara, Eastern Division—			
Teak	5,24,240	20,96,961	3,94,298
Blackwood	326	783	8,029
Junglewood	4,50,734	12,62,053	4,24,142
Total	9,75,300	33,59,797	8,26,469
Kanara, Western Division—			
Teak	58,569	2,13,480	43,003
Blackwood	2,829	5,658	4,727
Junglewood	1,69,657	3,39,314	5,15,576
Total	2,31,055	5,58,452	5,63,306

other produce cut or collected by Government Agency and brought to of during the year 1944-45—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forest and sale depôts		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
8,981	7,835	1,146	2,452	2,452	.....
28,919	.....	28,919	88,920	88,920	.....
37,900	7,835	30,065	91,372	91,372	.....
64,943	43,096	21,847	19,116	9,596	.....
56,68,643	54,40,162	2,28,481	1,62,341	.....	9,24,098
57,33,586	54,83,258	2,50,328	1,81,457	9,596	9,24,098
Rs.	Rs.	Rs.			
998	523	.....	475	475	.....
5	5	.....	.....	.....	5
5,972	5,917	.....	55	.....	3
credited to RII by the D. F. O., West Khandesh, the remaining Rs. 2 appear under RI.					
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
23,95,480	14,85,657	9,09,823	20,01,580	1,61,540	.....
68,104	51,786	16,318	23,650	.....	28,518
5,65,886	4,05,806	1,60,080	3,34,215	33,049	.....
30,29,470	19,43,249	10,86,221	23,59,475	1,94,589	28,518
9,18,539	1,78,813	7,39,725	36,98,626	16,01,665	.....
8,355	3,154	5,201	15,603	14,820	.....
8,74,976	4,34,690	4,40,286	13,20,853	58,805	.....
18,01,769	6,16,557	11,85,212	50,35,087	16,75,290	.....
1,01,572	65,624	35,948	1,43,792	.....	69,688
7,556	6,556	1,000	2,000	.....	3,658
6,85,283	4,90,067	1,95,156	2,92,749	.....	46,565
7,94,361	5,62,247	2,32,114	4,38,541	.....	1,19,911

Note.—Timber and fuel to be given in cubic feet; other minor produce in money.

COMBINATION OF FORMS NOS. 55 AND 56.—*Account of Timber and depôts, sold locally or otherwise disposed*

Name of Division	Balance at commencement of the year in forest and sale depôts		Received during the year
	1	2	3
SOUTHERN CIRCLE— <i>contd.</i>			
<i>Timber—contd.</i>			
Belgaum Division—			
Teak	71,052	2,221,156	3,56,687
Blackwood	...	...	7,513
Junglewood	2,35,118	3,17,530	4,80,096
Total	3,15,290	5,18,686	8,44,296
Dharwar-Bijapur Division—			
Teak	1,37,122	1,37,122	55,465
Blackwood	...	...	...
Junglewood	...	...	37,049
Total	1,37,122	1,37,122	1,23,514
Total, Timber—			
Teak	88,174	1,168,278	20,22,248
Blackwood	...	...	51,846
Junglewood	10,151.7	22,20,000	18,33,101
Total timber	98,325.7	11,97,191	39,07,185
<i>Firewood.</i>			
Kanara, Northern Division	66	24	2,05,300
Kanara, Eastern Division	...	...	4,66,155
Kanara, Western Division	...	...	...
Belgaum	...	...	37,23,245
Dharwar-Bijapur Division	1,453	25	11,00,293
Total, Firewood	1,551	49	35,04,983
<i>Charcoal.</i>			
	Tons.	Rs.	Tons.
Kanara, Northern Division	...	...	...
Kanara, Eastern Division	680	33,700	6
Kanara, Western Division	...	...	368
Belgaum	225	14,000	2,663
Dharwar-Bijapur	...	...	24
Total, Charcoal	905	50,300	3,051
<i>Bamboos.</i>			
	R-	Rs.	
Kanara, Northern Division	...	...	...
Kanara, Eastern Division	...	...	3
Kanara, Western Division	...	...	...
Belgaum Division	...	...	1,748
Dharwar-Bijapur Division	...	...	...
Total, Bamboos	...	...	1,751

Note.—Timber and fuel to be given in cubic feet, other timber produce in money.

other produce cut or collected by Government Agency and brought to of during the year 1944-45—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forest and sale depôts		Difference in value	
		In favour of the year	Against the year	9	10
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
4,33,739	2,42,885	1,90,854	5,48,705	3,17,549	.....
7,813	2,531	5,282	8,680	8,680	.....
7,19,244	5,51,627	1,66,617	2,74,806	.....	42,724
14,59,796	7,97,043	3,64,753	8,32,191	3,26,229	42,724
2,32,587	1,37,531	85,056	85,056	.....	52,066
37,049	36,517	532	177	177	.....
2,59,636	1,74,048	85,588	85,233	177	52,066
40,71,916	21,10,510	19,81,406	64,77,759	20,80,754	1,21,754
91,823	64,027	27,801	49,963	23,500	39,176
28,81,283	19,18,607	9,62,681	22,22,805	92,031	89,289
70,45,032	40,93,144	29,51,888	87,50,527	21,96,285	2,43,219
2,05,366	164	2,05,202	48,735	48,711	.....
4,66,155	.....	4,66,155	93,231	93,231	.....
37,33,245	8,16,170	29,17,075	5,25,060	5,25,060	.....
11,01,778	1,12,860	9,88,918	2,75,493	2,75,458	.....
55,06,544	9,29,194	45,77,350	9,42,509	9,42,430	.....
Tons.	Tons.	Tons.	Rs.	Rs.	Rs.
686	160	526	27,615	.....	8,085
363	100	263	26,300	26,800	.....
2,892	2,821	71	5,119	.....	9,571
24	.....	24	2,566	2,566	.....
3,970	3,081	889	62,100	29,366	17,656
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
3	3	.....	.....	.....	.....
1,748	1,743	.....	.....	.....	.....
1,751	1,751	.....	.....	.....	.....

COMBINATION OF FORMS NOS. 65 AND 66.—*Account of Timber and depots, sold locally or otherwise disposed*

Name of Division	Balance at commencement of the year in forest and sale depots		Received during the year
	2	3	4
SOUTHERN CIRCLE—concl'd.	C. ft.	Rs.	Rs.
<i>Sandalwood.</i>			
Kanara, Northern Division ... ..	.....	2,700	2,376
Kanara, Eastern Division ... ..	.....	9,316	46,052
Kanara, Western Division ... ..	.....	.....	255
Belgaum Division ... ..	.....	28,613	69,497
Dharwar-Bijapur Division ... ..	.....	26,819	92,325
Total, Sandalwood ... ..	.....	67,148	2,10,508
<i>Other Minor Forest Produce.</i>			
Kanara, Northern Division ... ..	.....	.....	6
Kanara, Eastern Division ... ..	.....	.....	.....
Kanara, Western Division ... ..	.....	.....	.....
Belgaum, Division ... ..	.....	.....	9
Dharwar-Bijapur Division ... ..	.....	.....	7
Total other minor produce ... ..	.....	.....	22
<i>Drift and Waifwood and confiscated Forest Produce.</i>			
Kanara, Northern Division ... ..	.....	.....	.....
Kanara, Eastern Division ... ..	.....	.....	.....
Kanara, Western Division ... ..	.....	.....	18
Belgaum ... ..	.....	.....	.....
Dharwar-Bijapur ... ..	.....	.....	.....
Total, Drift and Waifwood etc. ... ..	.....	.....	18
Total, Southern Circle—			C. ft.
Timber and Firewood	31,39,393	67,97,510	94,12,178
	Tons.		Tons.
Charcoal	906	50,390	3,064
	Rs.		Rs.
Bamboos, Sandalwood & other Minor Produce.	.. ..	67,148	2,12,299
		Net difference	in favour
Total, Bombay Province—			
Timber and fuel	57,04,331	72,79,826	143,99,970
Sandalwood and other minor Produce ... ..	.....	67,316	3,03,317
Charcoal	20,65,731	13,79,673	83,96,934
Net difference in favour of the year ... ..	.....	.....	20,66,737
			Rs.
Against the year, Northern Circle ... ..	.....	.....	50,416
Against the year, Central Circle ... ..	.....	.....	9,4,055
In favour of the year, Southern Circle ... ..	.....	.....	30,31,208

Net difference in favour of the year, Rs. 20,66,737.

other produce cut or collected by Government Agency and brought to of during the year 1944-45—concl'd.

Total	Dispo- ed of during the year	Balance in hand at close of the year in forast and sale depots		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
5,076	2,826	.....	2,250	.....	450
55,008	13,368	.....	41,700	32,684	.....
255	.....	.....	255	255	.....
98,110	31,498	.....	66,612	37,999	.....
1,19,147	38,844	.....	80,303	53,484	.....
2,77,056	86,536	.....	1,91,120	1,24,422	450
6	6	.....	.....	.....	.....
9	9	.....	.....	.....	.....
7	7	.....	.....	.....	.....
22	22	.....	.....	.....	.....
18	18	.....	.....	.....	.....
18	18	.....	.....	.....	.....
C. ft. 125,51,578	C. ft. 50,22,338	C. ft. 75,29,238	96,93,096	31,38,745	2,43,219
Tons. 3,970	Tons. 3,081	Tons. 889	62,100	29,366	17,656
Rs. 2,79,447	Rs. 88,327	.....	1,91,120	1,24,422	450
of the year Rs.	30,21,208.	.....	.....	.....	.....
2,03,44,301	95,62,761	1,04,82,240	1,03,26,739	34,57,219	4,10,306
3,71,234	1,79,373	.....	1,91,860	1,24,902	458
1,04,62,665	1,02,69,082	3,93,583	2,75,053	41,251	11,45,871
.....

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Panch Mahals Division	North Thana Division	East Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
NORTHERN CIRCLE				
REVENUE				
X.—Forest.				
<i>I.—Timber and other produce removed from the forest by Government Agency—</i>				
a. Timber	.....	4,84,571 14 11	4,15,445 5 3	1,22,303 14 0
b. Firewood and charcoal	.....	27,777 4 0	14,95,742 11 0	24,12,968 6 0
c. Bamboos	.....	185 0 0	.....	.....
d. Sandalwood	.....	.....	.....	.....
e. Grass and other minor produce.	.....	83,942 0 0	17 0 0	.....
Total I	.....	5,96,476 2 11	19,11,205 0 3	25,36,272 4 0
<i>II.—Timber and other produce removed from the forest by consumers or purchasers—</i>				
a. Timber	.....	6,55,604 10 0	22,57,794 12 0	11,00,564 13 9
b. Firewood and charcoal	.....	4,066 1 3	4,605 7 6	1,398 2 0
c. Bamboos	.....	2,535 14 0	10,052 10 0	886 8 0
d. Grazing and fodder grass	.....	27,898 12 0	17,935 12 0	222 0 0
e. Other minor produce	.....	31,225 16 0	8,963 11 0	4,990 6 0
f. Other Items	.....	.....	.....	.....
g. Commutation fees	.....	.....	.....	.....
Total II	.....	7,71,332 4 3	22,99,349 4 6	11,08,061 13 9
<i>III.—Drift and waif wood and confiscated forest produce.</i>				
Total III	.....	.....	391 3 0	.....
<i>IV.—Revenue from forest not managed by Government—</i>				
a. Duty on foreign timber and other forest produce.	.....	.....	.....	.....
b. Revenue from shared and private forest.	.....	.....	.....	.....
Total IV	.....	.....	.....	.....
<i>V.—Miscellaneous—</i>				
a. Fines and forfeitures	.....	570 0 0	15,971 7 3	15,908 8 0
b. Refunds	29 11 0	11,594 1 1	492 12 0	1,176 11 0
c. Other sources	2,450 6 0	29,368 7 4	17,035 14 9	17,443 6 3
d. Recoveries of Establishment Charges.	.....	10,061 13 0	2,527 14 0	4,478 9 0
e. Contribution towards leave salary and passage of officers lent to foreign service.	2,782 6 0	.....	.....	.....
Total V	5,262 7 0	51,594 5 5	36,029 0 0	42,007 2 3
<i>VI.—Transfer from the deposits on account of special development fund.</i>				
	.....	.....	3,991 1 9	.....
Gross Total Revenue	5,262 7 0	14,19,402 12 7	42,53,965 9 6	36,85,341 4 0
Deduct—Refunds	25 0 0	5,319 14 5	19,635 10 9	529 7 0
Net Revenue	5,237 7 0	14,14,082 13 11	42,31,329 14 9	36,84,811 13 0

APPENDICES

45

of the different Divisions for the financial year 1944-45.

West Thana Division	East Nasik Division	West Nasik Division	Surat Sub- Division	Working Plans Northern Circle Division.	Total for 1944-45
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,13,698 9 9	—	15,017 0 0	52,799 11 0	.....	19,03,890 6 11
15,97,606 10 6	16,329 14 3	2,18,674 0 0	4,79,657 9 6	.....	62,48,656 7 3
.....	.....	.....	12 6 0	.....	197 6 0
.....
22 8 0	.....	432 6 0	.....	.....	54,403 14 0
18,11,327 12 3	16,229 14 3	2,34,113 6 0	5,32,458 10 6	.....	76,37,088 2 2
18,99,522 1 3	69,494 12 0	1,93,114 4 9	3,42,413 4 3	.....	65,12,448 10 0
2,001 15 0	45,075 5 0	12,457 13 0	102 4 6	.....	69,707 0 3
4,434 14 0	37 10 0	5,192 15 3	32,350 1 3	.....	56,480 8 6
382 0 0	13,322 14 0	39,330 4 0	925 8 0	.....	99,367 2 0
5,257 4 0	9,430 11 6	12,423 14 0	6,896 10 8	.....	1,29,186 8 2
.....
.....
19,11,598 2 3	1,21,301 4 6	2,62,569 3 0	3,81,987 12 8	.....	68,66,199 12 11
208 12 0	48 4 0	455 6 0	68 0 0	.....	1,171 11 0
208 12 0	48 4 0	455 8 0	68 0 0	.....	1,171 11 0
.....
7,076 12 8	.....	.....	101 5 4	.....	7,178 2 0
7,076 12 8	.....	.....	101 5 4	.....	7,178 2 0
3,508 6 0	2,026 4 0	15,824 4 0	1,294 15 0	.....	58,103 12 3
308 4 0	23 12 0	1 2 0	.....	.....	13,625 5 1
17,638 12 6	25,498 2 0	19,541 0 8	6,726 13 5	.....	1,35,703 14 11
2,865 9 6	.....	1,562 0 0	8,866 15 3	.....	30,362 12 9
.....	.....	.....	.....	.....	2,782 6 0
24,331 0 0	27,547 2 0	36,923 6 8	16,888 11 8	.....	2,40,578 3 0
.....	.....	.....	.....	.....	3,991 1 9
37,54,532 7 2	1,75,126 8 9	5,34,066 7 8	9,31,509 8 2	.....	1,47,56,307 0 10
1,956 13 0	139 0 0	1,247 14 0	1,706 0 0	.....	31,589 11 5
37,52,545 10 2	1,74,987 8 9	5,32,818 9 8	9,29,803 8 2	.....	1,47,25,617 5 5

FORM NO. 63.—Summary of Revenue and Expenditure

Budget Head	Direction	Panch Mahals	North Thana	East Thana
		Division	Division	Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST				
B.—CONSERVANCY AND WORKS.				
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>				
a. Timber	428 14 0	1,72,068 13 3	2,59,692 11 3	15,527 10 6
b. Firewood and charcoal ... ..	.....	6,133 8 1	15,65,066 15 9	23,47,386 10 0
c. Bamboos ... ..	.....	72 8 0	.....	.....
d. Sandalwood ... ..	.....	.....	.....	.....
e. Grass and other minor produce. ....	.....	58,436 2 0	.....	.....
Total, B—I ...	428 14 0	2,76,780 15 4	18,21,759 11 0	23,62,914 4 6
<i>II.—Timber and other produce removed from the forests by consumers or purchasers.</i>				
	135 4 0	6,354 9 6	40,313 14 0	55,832 9 0
Total, B—II ...	135 4 0	6,354 9 6	40,313 14 0	55,832 9 0
<i>III.—Live stock, Stores, Tool and Plant—</i>				
a. Purchase of cattle ... ..	.....	.....	.....	.....
b. Feed and upkeep of cattle ... ..	.....	.....	.....	.....
c. Purchase of stores, tools and plant. ....	.....	249 5 0	10,470 7 0	134 0 0
d. Customs duty ... ..	.....	.....	.....	.....
Total, B—III ...	.....	249 5 0	10,470 7 0	134 0 0
<i>IV.—Communications and Buildings—</i>				
a. Railways and Tramways ... ..	.....	.....	.....	.....
b. Roads and bridges other than those in connection with Railways and Tramways. ....	.....	129 0 0	907 8 0	3,327 2 6
c. Buildings ... ..	.....	1,566 3 0	2,009 8 6	2,150 15 3
d. Other works ... ..	.....	333 12 6	266 4 0	109 12 0
Total, B—IV ...	.....	2,028 15 6	3,183 4 6	5,387 13 9

of the different Divisions for the financial year 1944-45—contd.

West Thana Division.	East Nasik Division.	West Nasik Division.	Surat Sub- Division.	Working Plans Northern Circle Division.	Total for 1944-45.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
56,595 13 6	540 6 0	10,219 9 8	14,572 4 0	.....	5,59,666 2 0
18,81,411 8 0	962 13 0	49,356 12 9	4,80,459 10 0	.....	58,30,767 13 7
.....	.....	.....	5 8 0	.....	78 0 0
.....
.....	.....	8,838 5 0	11,380 0 0	.....	73,664 7 0
14,68,007 6 8	1,503 3 0	63,315 11 3	6,26,456 6 0	.....	64,64,166 6 7
59,334 2 6	2,434 9 6	3,146 12 0	4,581 8 3	.....	1,72,153 4 9
59,334 2 6	2,434 9 6	3,146 12 0	4,581 8 3	.....	1,72,153 4 9
.....
.....
799 10 0	176 6 0	209 10 0	249 10 6	11 0 0	12,300 0 6
.....
799 10 0	176 6 0	209 10 0	249 10 6	11 0 0	12,300 0 6
.....
.....
2,922 11 0	210 0 0	9,6 9 14 3	530 0 0	.....	17,606 3 9
2,094 0 0	30 0 0	1,536 11 6	1,495 10 1	.....	10,855 0 4
18 0 0	.....	28 8 0	93 0 0	.....	840 4 6
5,634 11 0	230 0 0	11,187 1 9	2,258 10 1	.....	29,340 8 7

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Panah Mahals	North Thana	East Thana
		Division	Division	Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST				
B.—CONSERVANCY AND WORKS—contd.				
<i>V.—Organisation, improvement and extension of forests—</i>				
a. Demarcation	517 9 0	536 7 6	498 6 6
b. Forest Settlement
c. Surveys
d. Working Plans
e. Plantations	108 13 0	.....	.....
f. Reproduction	1,413 9 9	20,693 3 3	3,546 8 0
g. Fire protection	1,713 13 6	3,759 14 6	3,512 10 0
h. Other works	1,306 9 0	1,989 10 9	.....
Total, B—V	5,060 5 3	26,949 4 0	7,657 8 6
<i>VI.—Miscellaneous—</i>				
a. Rent of leased forests and payments to shareholders in forests managed by Government.	1,955 13 0
b. Law charges	101 0 0	.....
c. Grain compensation allowance.
d. Clothing	11 8 0	1,098 8 6	4,768 9 6	1,757 8 0
e. Famine fodder charges	185 0 0	.....	.....
f. Other charges	111 0 0	35 12 0	87 2 6
Total, B—VI	11 8 0	1,394 8 6	4,895 5 6	3,100 7 6
<i>VII.—Suspense—</i>				
a. Work advances	-763 7 0	.....
Total, B—VII	-763 7 0	.....
<i>VIII.—Demarcation of boundaries (between British territory and Indian States).</i>				
.....
<i>IX.—Deduct—Establishment Charges recoverable from contractors, etc.</i>				
.....	-534 10 0	.....
Total B-Conservancy and Works ...	575 10 0	2,51,268 11 1	19,09,273 13 0	94,35,326 11 3

of the different Divisions for the financial year 1944-45—contd.

West Thana Division	East Nasik Division	West Nasik Division	Burat Sub- Division	Working Plans N. O.	Total for 1944-45
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
300 0 0	140 3 0	662 7 6	100 11 0	.....	2,745 12 6
.....
.....
.....
.....	.....	.....	.....	.....	108,12 0
9,611 8 6	422 10 0	1,920 5 0	851 1 6	.....	38,758 14 0
5,556 14 6	215 0 0	96 8 0	3,254 3 0	.....	18,167 15 6
20 0 0	180 0 0	3 4 0	.....	.....	3,499 7 9
15,687 7 0	957 13 0	2,702 3 6	4,205 15 6	.....	63,230 13 9
.....	.....	.....	.....	.....	1,255 13 0
2,541 12 0	.....	.....	.....	.....	2,642 13 0
.....
4,263 11 6	659 11 0	1,460 13 0	250 12 0	-0 15 0	14,260 2 6
.....	.....	.....	.....	.....	185 0 0
92 15 0	.....	61 8 0	.....	.....	3-8 5 6
6,898 6 6	659 11 0	1,542 5 0	250 12 0	-0 15 0	18,732 1 0
.....	.....	.....	.....	.....	-763 7 0
.....	.....	.....	.....	.....	-763 7 0
.....
.....	.....	.....	.....	.....	-634 10 0
15,55,761 10 6	5,961 10 6	82,094 0 6	5,17,832 14 4	10 1 0	67,58,615 9 2

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Panch Mahals Division	North Thana Division	East Thana Division
EXPENDITURE—10, FOREST— contd.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
C.—ESTABLISHMENT				
I.—Pay of Officers—				
a. Conservators	18,444 14 0	.....	.....	.....
b. Superior officers plus personal and special pay—				
Charged	.....	.....	19,440 0 0	.....
Voted	7,179 15 0	8,427 0 0	5,292 5 0	9,965 3 0
c. Leave salary—				
Charged	.....	.....	.....	.....
Voted	527 11 0	.....	.....	555 8 0
Total, C.—I	{ Charged ... 18,444 14 0 Voted ... 7,707 10 0	{ 8,427 0 0	{ 19,440 0 0 5,292 5 0	{ 10,520 11 0
II.—Pay of Establishment—				
a. Subordinate forest and depot establishment plus special and personal pay.	.....	41,321 13 0	64,298 14 0	61,730 14 0
b. Office establishment plus special and personal pay.	6,474 5 0	6,973 0 0	9,662 11 0	9,654 8 0
c. Proficiency allowance	.....	.....	.....	.....
d. Temporary establishment plus special pay.	1,029 7 0	1,863 1 0	6,705 12 0	856 10 0
e. Leave salary	1,123 11 0	5,346 9 0	4,735 2 0	5,125 9 0
Total, C.—II	8,627 7 0	55,484 7 0	86,402 7 0	77,357 9 0
III.—Allowances, Honoraria, etc.—				
a. Compensatory allowances—				
Charged	.....	.....	.....	.....
Voted	.....	40 13 0	.....	7 9 0
b. Travelling allowance—				
Charged	4,938 15 0	.....	4,205 13 0	.....
Voted	1,568 6 0	13,308 12 0	20,327 1 0	19,062 10 0
c. Plague allowance	.....	.....	.....	.....
d. House-rent allowance—				
Charged	.....	.....	.....	.....
Voted	.....	.....	.....	.....
e. Forest training	.....	.....	.....	.....
f. Dearness allowance	2,569 2 0	24,621 8 0	32,965 10 0	31,717 13 0
g. War allowance	914 10 0	1,064 11 0	64 14 0	1,082 1 0
h. Payments on account of medical treatment of British officers of the Superior Civil Service.	.....	.....	.....	.....
Total, C.—III	{ Charged ... 4,938 15 0 Voted ... 5,072 2 0	{ 39,655 12 0	{ 4,905 13 0 58,939 9 0	{ 51,870 1 0
IV.—Contingencies—				
a. Stationery	24 15 0	129 3 0	132 2 0	9 7 0
b. Carriage of tents and records	595 5 0	333 8 0	595 12 0	251 2 0
c. Rents, rates and taxes	221 0 0	444 0 6	15 6 0	112 14 0
d. Service postage and telegram charges.	2,117 0 9	3,199 2 6	5,518 5 3	3,198 5 0
e. Sundries	660 1 3	1,416 13 9	733 7 3	623 10 0
Total, C.—IV	4,018 6 0	5,572 10 9	6,925 0 6	4,195 6 0
V.—Establishment charges recover- able from other Governments, Department, etc.—				
Deduct amount recoverable on account of pay of guards appointed for excise work in Panch Mahals.	.....	.....	.....	.....
Total V	.....	.....	.....	.....
TOTAL, C.—ESTABLISHMENT	48,809 6 0	1,09,139 13 9	1,75,275 2 6	1,43,953 11 0
D. SPECIAL DEVELOPMENT PRO- GRAMME	.....	.....	3,991 1 9	.....
Total I Forest...	49,385 0 0	3,61,08 8 10	20,88,540 1 3	25,79,180 6 3
GRAND TOTAL OF ALL EXPENDI- TURE	49,385 0 0	3,61,08 8 10	20,88,540 1 3	25,79,180 6 3
Surplus or deficit	-41,147 9 0	+10,53,074 5 1	+21,45,990 12 6	+11,05,631 6 9

of the different Divisions for the financial year 1944-45—contd.

West Thana Division	East Nasik Division	West Nasik Division	Surat Sub-Division	Working Plans N. C. Division	Total for 1944-45
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	.....	.....	.....	18,444 14 0
12,317 4 0	3,837 4 0	14,300 0 0	3,329 4 0	240 0 0	19,440 0 0 64,898 3 0
995 10 0	.....	.....	.....	.....	1,378 13 0
12,612 14 0	3,837 4 0	14,300 0 0	3,329 4 0	240 0 0	37,884 14 0 66,267 0 0
64,138 13 0	30,768 11 0	44,649 11 6	16,443 3 0	83 5 0	3,23,055 4 6
9,502 9 0	7,408 6 0	9,069 12 0	3,487 4 0	63 12 0	62,296 2 0
2,602 14 0	14 16 0	2,051 7 0	328 10 0	62 11 0	15,515 7 0
5,896 9 0	2,716 13 0	5,361 1 0	1,520 13 0	.....	91,806 3 0
82,140 14 0	40,938 11 0	61,131 15 6	21,379 14 0	209 12 0	4,32,572 16 6
2,390 7 0	.....	37 15 0	.....	.....	2,476 12 0
90,968 10 0	11,382 2 0	14,343 13 0	5,186 12 0	239 14 0	9,144 12 0 1,07,026 0 0
449 3 0	.....	.....	.....	.....	449 3 0
33,386 11 0	18,081 12 0	22,804 13 0	8,673 13 0	65 2 0	1,74,888 4 0
1,457 11 0	608 10 0	395 1 0	404 11 0	38 9 0	6,537 14 0 Nil
.....	.....	.....	.....	.....	9,144 12 0
58,672 10 0	23,570 8 0	37,581 10 0	14,270 4 0	343 9 0	2,91,376 1 0
28 14 0	37 15 0	24 11 0	28 5 6	.....	415 7 6
634 7 0	563 3 0	414 13 0	246 11 0	7 0 0	4,090 13 0
1,373 13 0	11 6 0	136 1 0	4 10 8	.....	2,319 3 2
2,24 10 6	1,100 1 0	1,401 7 9	1,405 2 6	25 0 0	20,169 3 3
546 10 9	200 14 5	648 0 0	437 15 6	49 10 0	5,317 2 11
4,788 7 3	1,912 7 5	2,625 0 6	2,122 13 2	81 10 0	32,311 13 10
.....	.....	-770 0 0	.....	.....	-770 0 0
.....	.....	-770 0 0	.....	.....	-770 0 0
1,68,214 12 3	76,648 14 5	1,74,868 10 3	41,102 3 2	874 16 0	8,68,897 8 4
.....	.....	.....	.....	.....	3,991 1 9
17,13,976 6 9	82,630 8 11	1,96,962 10 9	5,58,936 1 6	885 0 0	76,31,493 12 3
17,13,976 6 9	82,630 8 11	1,96,962 10 9	5,58,936 1 6	885 0 0	76,31,493 12 3
+20,38,569 3 5	+92,356 15 10	+3,35,865 14 11	+3,70,898 6 8	-885 0 0	+70,94,123 9 2

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	East	West	West
		Khandesh Division	Khandesh Division	West Khandesh Sub- Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
CENTRAL CIRCLE				
REVENUE				
X.—Forest				
<i>I.—Timber and other produce removed from the Forest by Government Agency—</i>				
a. Timber	1,453 4 0	8,49,908 13 3	2,909 0 0
b. Firewood and charcoal	7,032 8 9	5,856 0 0	10,410 0 0
c. Bamboos	2 6 0	.....	.....
d. Sandalwood	1 1 0	.....	25 0 0
e. Grass and other minor produce.
Total, I	8,289 3 9	8,49,983 13 3	13,344 0 0
<i>II.—Timber and other Produce removed from the Forest by Consumers or Purchasers—</i>				
a. Timber	98,480 3 0	1,11,941 5 0	54,091 9 0
b. Firewood and charcoal	90,177 5 0	7,602 7 9	19,354 14 6
c. Bamboos	17,468 0 6	5,157 1 0	3,964 8 0
d. Grazing and fodder grass	50,453 7 0	2,910 0 0	58,555 1 0
e. Other minor produce	25,339 3 0	55,908 4 0	21,572 13 0
f. Other items
g. Commutation fees
Total, II	2,81,931 3 6	1,83,419 1 9	1,67,948 8 6
<i>III.—Drift and waif wood and confiscated Forest Produce</i>				
Total, III	106 0 0	.....
<i>IV.—Revenue from Forest not managed by Government—</i>				
a. Duty on foreign timber and other forest produce	17,081 10 0	9,719 0 0	9,351 0 0
b. Revenue from shared and private forests
Total, IV	17,081 10 0	9,719 0 0	9,351 0 0
<i>V.—Miscellaneous—</i>				
a. Fines and forfeitures	14,638 8 0	15,570 0 0	8,348 0 0
b. Refunds	1 0 9	47 2 6	0 13 0
c. Other sources	3,390 4 0	23,273 2 6	15,710 7 9	29,921 12 0
d. Recoveries of Establishment Charges	17,108 8 0	.....
e. Leave contribution	79 7 8	.....
Total, V	3,390 4 0	3,912 11 3	48,516 9 11	38,170 9 0
GROSS TOTAL REVENUE	3,390 4 0	3,45,211 12 6	10,91,553 8 11	2,24,214 1 6
Deduct—Refunds	54 10 0	3,936 5 6	1,728 3 0	165 19 0
NET REVENUE	3,275 10 0	3,41,275 7 0	10,89,825 5 11	2,23,048 6 6
EXPENDITURE—10—FOREST				
B—CONSERVANCY AND WORKS.				
<i>I.—Timber and other produce removed from the Forests by Government Agency—</i>				
a. Timber	4,46,597 12 0	.....
b. Firewood and charcoal	3,511 14 0	31,385 8 0	7,581 4 0
c. Bamboos
d. Sandalwood
e. Grass and other minor produce.
Total, B—I	3,511 14 0	4,80,033 4 0	7,581 4 0

of the different Divisions for the financial year 1944-45—contd.

Poona Division	Kolaba Division	Satara Division	Working Plans Division, C. C.	Total for the year 1944-45
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,212 9 0	4,858 9 0	97 8 0	.....	8,59,989 4 3
52,245 9 0	41,31,668 3 0	56,458 11 0	.....	42,64,689 14 9
.....	.....	.....	.....	2 6 0
57 9 0	.....	499 2 0	.....	622 12 0
5,917 3 0	.....	.....	.....	5,917 3 0
59,132 7 0	41,36,526 11 0	56,996 5 0	.....	51,24,381 8 0
88,064 6 2	10,30,673 1 0	57,796 10 0	.....	14,51,037 2 2
38,023 8 0	95,096 0 0	1,353 9 0	.....	2,51,634 13 8
1,392 7 0	162 0 0	332 1 0	.....	39,486 12 6
29,425 5 0	123 6 0	17,184 14 0	.....	1,58,662 1 0
12,362 6 6	5,753 9 0	17,817 2 0	.....	1,39,472 5 6
.....
1,69,271 0 8	11,32,808 0 0	94,614 4 0	.....	90,29,292 2 5
97 12 0	.....	.....	.....	903 12 0
97 12 0	.....	.....	.....	903 12 0
.....	.....	.....	.....	86,161 10 0
29 5 8	49 2 0	7 5 0	.....	78 12 8
22 5 8	49 2 0	7 5 0	.....	36,2 0 6 8
7,842 6 0	9,898 8 0	946 8 0	.....	57,242 13 0
51 14 0	265 7 3	7 6 14 0	.....	1,033 3 6
13,324 1 3	20,341 15 7	6,965 13 0	.....	1,12,767 8 1
25 10 0	6 4 0	.....	.....	17,440 6 0
.....	.....	.....	.....	79 7 8
21,244 14 3	30,412 2 10	5,625 3 0	.....	1,88,313 6 3
2,50,167 7 7	62,19,805 15 0	1,60,145 1 0	.....	73,78,421 3 4
141 11 0	186 8 0	491 14 0	.....	6,704 16 6
2,49,925 12 7	62,99,709 7 10	1,59,653 3 0	.....	73,71,716 3 10
.....
514 13 0	2,651 1 0	16 0 0	.....	4,51,879 10 0
47,050 9 3	31,25,697 15 3	41,573 8 9	.....	32,56,740 13 3
.....
2 0 0	.....	42 0 0	.....	44 0 0
.....
47,567 6 3	31,25,359 0	41,631 8 9	.....	37,09,664 5 3

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	East Khandesh Division	West Khandesh Division	West Khandesh Sub-Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—contd.				
B—CONSERVANCY AND WORKS				
<i>—contd.</i>				
II.—Timber and other Produce removed from the Forests by consumers or purchasers				
.....	2,571 7 0	6,540 13 6	4,546 12 9
Total, B—II	2,571 7 0	6,540 13 6	4,546 12 9
III.—Live-stock, stores, tools and plant—				
c. Purchase of stores, tools and plant				
.....	233 4 6	399 12 0	155 8 0
Total, B—III	233 4 6	399 12 0	155 8 0
IV.—Communications and Buildings—				
b. Roads and bridges (other than those in connection with Railways and Tramways)				
.....	4,114 3 9	6,217 12 0	2,968 14 0
c. Buildings				
.....	1,771 7 6	2,924 6 6	2,575 12 6
d. Other works				
.....	301 6 0	44 0 0	172 12 0
Total, B—IV	6,187 1 3	9,186 2 6	5,017 6 6
V.—Organization, improvement and extension of Forests—				
a. Demarcation				
.....	164 4 0	296 12 0	365 8 6
b. Forest Settlement				
.....
c. Surveys				
.....
d. Working Plans				
.....
e. Plantations				
.....	357 12 0
f. Re-rodution				
.....	77 0 0	968 0 0	147 10 0
g. Fire protection				
.....	1,033 8 0	4,226 6 0	1,937 0 0
h. Other works				
.....	295 0 0	975 14 0	464 4 6
Total, B—V	1,669 12 0	6,530 0 0	3,272 13 0
VI.—Miscellaneous—				
a. Rent of leased forests and payments to shareholders in forests managed by Government				
.....
b. Law charges				
.....
c. Grain Compensation allowance				
.....
d. Clothing				
.....	1,073 5 0	2,744 14 0	1,147 0 0
e. Famine Fodder charges				
.....
f. Other charges				
.....	111 13 6	65 0 0	66 8 0
Total, B—VI	1,185 2 6	2,809 14 0	1,213 8 0
VII.—Suspense—				
a. Work advances				
.....
Total, B—VII
VIII.—Demarcation of boundaries (between British territory and Indian States).				
.....	6	18 12 0	.....
IX.—Establishment charges recoverable from other Govt. Depts.				
.....	-90 0 0	.....
Total, B—CONSERVANCY AND WORKS				
.....	15,354 9 3	5,05,428 10 0	31,789 4 3
C.—ESTABLISHMENT				
I.—Pay of Officers—				
a. Chief Conservator or Conservators				
.....	24,185 8 0	.....	.....	.....
b. Superior Officers (Charged plus Personal and special pay.)				
.....
c. Leave Salary (Charged plus Voted)				
.....	2,590 0 0	5,400 0 0	8,731 4 0	1,618 3 0
.....	115 13 0	.....
Total, I	24,185 8 0	8,847 1 0	1,618 3 0
.....	2,590 0 0	5,400 0 0	1,618 3 0

of the different Divisions for the financial year 1944-45—contd.

Poona Division	Kolaba Division	Satara Division	Working Plans Division, C. C.	Total for the year 1944-45
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
861 10 0	3,572 10 0	853 7 0	44 4 0	18,993 0 3
86 10 0	3,572 10 0	853 7 0	44 4 0	18,993 0 3
167 6 0	455 3 0	205 11 0	.....	1,616 12 6
167 6 0	455 3 0	205 11 0	.....	1,616 12 6
5 0 0	275 8 0	11 0 0	.....	12,892 5 9
973 12 0	1,848 11 9	1,482 10 0	.....	11,576 12 3
.....	110 0 0	25 0 0	.....	653 2 0
978 12 0	2,234 8 9	1,518 10 0	.....	25,129 4 0
647 15 0	148 0 0	390 15 0	.....	2,013 6 6
23 0 0	.....	3,059 9 0	.....	3,029 9 0
.....
271 4 0	.....	288 1 0	.....	897 1 0
599 5 0	2,704 10 6	567 9 0	.....	5,464 2 6
.....	54 0 0	103 15 0	.....	7,405 7 0
435 5 0	2,340 8 0	5,394 12 0	.....	9,908 11 6
2,376 13 0	5,247 8 6	9,734 13 0	.....	28,771 5 6
.....	33,210 8 0	4,684 8 6	.....	37,885 0 6
.....	145 3 0	.....	.....	145 3 0
3,058 9 0	3,462 0 0	2,686 0 0	164 12 0	14,306 8 0
697 3 0	122 14 0	59 0 0	.....	1,322 6 6
3,955 12 0	36,940 9 0	7,339 8 6	164 12 0	53,609 2 0
.....
.....
19 12 0	.....	.....	.....	43 8 0
.....	.....	.....	.....	-90 0 0
65,926 7 3	31,76,788 12 6	61,333 10 3	209 0 0	38,36,790 5 6
.....	.....	.....	.....	24,185 8 0
.....	.....	13,603 5 0	1,674 3 0	15,277 8 0
10,516 12 0	13,008 3 0	2,507 8 0	3,752 8 0	48,124 6 0
.....	.....	172 0 0	1,096 1 0	1,383 14 0
.....	.....	13,603 5 0	1,674 3 0	39,463 0 0
10,516 12 0	13,008 3 0	2,79 8 0	4,848 9 0	49,508 4 0

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	East Khandesh Division	West Khandesh Division	West Khandesh Sub-Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—<i>concid.</i>				
C.—ESTABLISHMENTS—<i>contd.</i>				
II.—Pay of Establishment—				
a. Subordinate Forest and Depot Establishment plus special and personal pay	.....	45,196 15 0	49,550 4 0	34,668 7 0
b. Office Establishment plus special and personal pay	6,857 7 0	9,864 4 0	11,304 12 0	7,310 2 0
d. Temporary Establishment plus special pay	1,521 12 0	1,199 14 0	1,353 9 0	2,090 2 0
e. Leave Salary	856 4 0	3,047 4 0	4,432 9 0	2,920 12 0
Total, II	9,265 7 0	59,908 5 0	66,641 2 0	46,989 7 0
III.—Allowances, Honoraria, etc.—				
a. Compensatory Allowances	.....	.....	.....	.....
{ Charged	.....	.....	.....	.....
{ Voted	.....	.....	.....	.....
b. Travelling allowance	3,226 10 0	.....	.....	.....
{ Charged	.....	.....	.....	.....
{ Voted	872 2 0	15,413 11 0	16,596 15 0	9,753 3 0
d. House-rent allowance	.....	.....	.....	.....
{ Charged	.....	.....	.....	.....
{ Voted	.....	.....	.....	.....
e. Cost of passages granted under the Superior Service Rules, 1924 (Charged)	.....	.....	.....	.....
(i) Dearness allowance	3,424 2 0	24,341 7 0	22,165 9 0	19,384 8 0
(j) War allowance	328 0 0	605 10 0	1,328 8 0	83 10 0
Total, C.—III	.....	.....	.....	.....
{ Charged	3,926 10 0	.....	.....	.....
{ Voted	4,624 4 0	40,260 13 0	40,091 0 0	29,921 5 0
IV.—Contingencies—				
a. Stationery	9 12 0	47 15 0	106 5 0	46 10 6
b. Carriage of tents and records	265 8 6	231 8 6	546 15 0	127 13 0
c. Rents, rates and taxes	79 9 0	83 6 0	184 11 0	107 4 0
d. Service postage and telegram charges	750 1 5	2,208 7 0	2,809 7 0	1,725 0 0
e. Sundries	516 9 6	703 5 5	718 0 9	472 2 0
Total, C.—IV	1,611 8 6	3,334 9 0	4,455 6 9	2,478 13 6
V.—Establishment charges recoverable from other Governments, Departments, etc.—				
(a) Deduct—Amount recoverable from Raisingpur Estate on account of pay of Ranger etc.	.....	.....	1,542 1 0	.....
Establishment charges recoverable from Revenue Department	.....	.....	500 0 0	.....
Establishment charges recoverable from Excise Department	.....	.....	11,900 0 0	.....
Total, V	.....	.....	13,942 1 0	.....
TOTAL C.—ESTABLISHMENT.				
{ Charged	27,412 2 0	.....	.....	.....
{ Voted	18,091 3 6	1,08,908 10 0	1,05,092 8 9	60,307 12 6
Total, 10, Forest Surplus or deficit	45,508 5 5	1,24,158 3 3	6,11,521 2 9	1,02,097 0 9
	-42,327 11 6	+2,17,120 3 9	+4,78,904 3 2	+1,25,951 4 9

of the different Divisions for the financial year 1944-45—contd.

Poona Division	Kolaba Division	Satara Division	Working Plans Division, C. C.	Total for the year 1944-45
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
43,308 6 0	63,776 4 0	31,729 4 0	3,977 14 0	2,77,307 8 0
10,573 3 0	10,585 1 0	7,416 5 0	1,425 14 0	65,317 0 0
270 0 0	1,350 2 0	3,332 11 0	877 5 0	11,395 7 0
3,446 2 0	4,355 13 0	3,042 12 0	273 5 0	22, 84 14 0
62,197 13 0	80,027 4 0	45,491 0 0	5,984 7 0	3,75, 04 13 0
.....
.....	143 9 0	753 10 0	50 0 0	997 3 0
.....	.....	2,2 1 0 0	1 5 3 0	5,522 13 0
15,794 13 0	22,930 8 0	10,709 8 0	3,629 9 0	94,370 6 0
.....	.....	113 0 0	.....	113 0 0
.....
27,356 0 0	35,524 9 0	18,959 14 0	1,820 4 0	1,52,976 5 0
720 0 0	1,308 0 0	900 0 0	268 7 0	4,240 3 0
.....	.....	2,431 0 0	165 3 0	5,622 13 0
43,170 13 0	59,536 10 0	30,846 0 0	5,756 4 0	2,53,907 0 0
.....
39 4 0	42 5 0	49 15 0	.....	342 2 6
394 13 0	292 15 0	154 5 6	38 11 0	2,008 7 6
87 11 0	124 8 0	22 2 0	100 6 0	789 9 0
1,369 3 0	2,545 0 6	1,401 10 6	230 0 0	13,129 13 6
396 3 6	416 9 3	293 5 9	103 0 0	3,824 5 3
2,267 2 6	3,331 5 9	1,919 6 9	475 1 0	19,893 5 9
.....
.....	.....	.....	.....	1,549 1 0
.....	.....	.....	.....	500 0 0
.....	.....	.....	.....	11,900 0 0
.....	.....	.....	.....	13,942 1 0
.....	.....	15,834 5 0	1,839 6 0	45,075 13 0
1,18,572 8 6	1,56,188 6 9	81,035 14 9	17,074 5 0	6,56,271 5 9
1,74,498 15 9	23,32,862 3 8	1,58,203 14 0	19,122 11 0	45,68,087 8 3
+75,426 12 10	+19,66,727 4 7	+1,449 5 0	-19,122 11 0	+28,03,528 11 7

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Kanara, Northern Division	Kanara, Eastern Division
SOUTHERN CIRCLE			
REVENUE—X, FOREST			
<i>I.—Timber and other produce removed from the forest by Government Agency—</i>			
a. Timber	.....	38,17,961 2 9	15,49,353 5 11
b. Firewood and Charcoal	.....	.....	8,419 7 3
c. Bamboos	.....	.....	3 8 0
d. Sandalwood	.....	2,875 15 6	18,367 11 4
e. Grass and other minor produce	.....	6 0 0	.....
Total, I	.....	38,21,793 2 3	1,71,144 0 6
<i>II.—Timber and other produce removed from the forest by consumers or purchasers—</i>			
a. Timber	.....	94,959 3 1	1,29,269 5 11
b. Firewood and charcoal	.....	7,751 8 0	999 0 8
c. Bamboos	.....	56,434 1 6	12,373 14 0
d. Grazing and fodder grass	.....	10 0 0	.....
e. Other minor produce	.....	3,790 6 0	90,486 15 10
f. Other items	.....	.....	.....
g. Commutation fees	.....	.....	.....
Total, II	.....	1,62,935 2 7	1,63,118 4 5
<i>III.—Drift and waif wood and confiscated forest produce</i>			
Total, III	.....	.....	.....
<i>IV.—Revenue from forest not managed by Government:—</i>			
a. Duty on foreign timber and other forest produce	.....	.....	.....
b. Revenue from shared and private forest	.....	.....	.....
Total, IV	.....	.....	.....
<i>V.—Miscellaneous—</i>			
a. Fines and forfeitures	.....	3,012 1 0	1,645 14 0
b. Refunds	.....	207 5 8	319 14 0
c. Other sources	2,903 14 0	1,21,404 13 11	38,725 11 1
d. Recoveries of Establishment charges	.....	68,859 3 10	32,749 8 0
e. Contributions towards leave salary, etc.	.....	.....	.....
Total, V	2,238 15 3	1,88,497 6 5	74,433 16 1
<i>VI.—Transfer from the Departmental account of Special Development Fund</i>			
Total, VI	.....	1,879 0 0	.....
Gross Total, Revenue	4,292 15 3	41,74,164 13 3	18,08,696 4 0
Deduct Refunds	120 0 0	160 10 "	.....
Net Revenue	2,172 15 3	41,73,944 8 3	18,08,696 4 0
EXPENDITURE—10, FOREST			
B—CONSERVANCY AND WORKS.			
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>			
a. Timber	19 0 0	17,70,546 8 0	10,76,142 9 9
b. Firewood and charcoal	.....	36,400 6 6	48,698 14 9
c. Bamboos	.....	.....	.....
d. Sandalwood	.....	251 0 0	7,558 8 0
e. Grass and other minor produce	.....	.....	.....
Total, B-I	19 0 0	18,07,199 8 6	11,39,200 0 6

of the different Divisions for the financial year 1944-45—contd.

Kanara. Western Division	Belgaum Division	Dharwar- Bijapur Division	Working Plans Division, S. C.	Total for the year 1944-45
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
12,15,473 15 0	7,24,391 0 4	3,99,807 13 2	.....	76,36,993 6 2
20,37 6 5	3,76,222 4 1	23,060 6 0	.....	4,27,081 7 3
.....	1,74 0 0	.....	.....	1,751 8 0
.....	51,497 13 0	36,844 2 11	.....	86,538 10 2
.....	9 0 0	7 0 0	.....	23 0 0
12,35,858 6 5	11,33,868 1 5	3,91,719 6 1	.....	61,53,982 15 8
17,255 15 0	39,456 1 6	20,406 2 0	.....	2,95,356 11 6
1,41,169 13 1	98,234 2 0	43,439 0 6	.....	2,91,662 8 3
4,412 9 0	50,107 4 2	9,140 0 0	.....	1,12,457 19 8
14 0 0	2 5 8 0	149 0 0	.....	438 8 0
7,563 3 0	21,838 12 9	13,465 1 0	.....	67,144 6 7
.....
1,70,425 8 1	1,83,901 12 6	86,599 3 6	.....	7,66,979 15 0
18 0 0	.....	.....	.....	18 0 0
18 0 0	.....	.....	.....	18 0 0
.....
.....
149 10 5	2,776 5 0	478 0 0	.....	8,061 14 2
1,361 4 10	521 2 0	7 13 0	.....	2,506 3 9
6,587 1 8	22,829 7 0	12,839 4 1	2 0 0	2,04,596 5 9
23,918 4 2	10,910 7 6	1,737 4 0	.....	1,34,177 11 6
.....	17 6 0	.....	.....	17 6 0
32,016 5 1	37,054 11 6	16,062 5 1	2 0 0	3,40,359 12 5
13,541 12 0	10,251 11 2	4,933 13 0	.....	30,514 4 2
13,541 12 0	10,254 11 2	4,933 13 0	.....	30,514 4 2
14,51,559 14 7	13,65,079 4 6	4,98,319 11 8	2 0 0	66,00,364 15 3
7,528 11 2	1, 31 6 0	10,230 4 0	.....	19,560 15 2
14,44,331 3 5	13,6 557 14 6	4,88,099 7 8	2 0 0	69,80,804 6 1
8,64,992 3 5	5,34,367 1 4	1,29,149 11 3	.....	43,78,216 12 9
14,828 14 6	6,57,600 11 6	2,92,734 5 3	.....	16,51,961 6 6
.....	1,607 14 0	.....	.....	1,607 14 0
.....	6,181 13 6	16,605 3 0	.....	29,782 8 6
.....	84 12 0	.....	.....	64 12 0
8,79,619 1 11	11,99,722 7 4	4,37,690 3 6	.....	54,68,650 5 9

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Kanara, Northern Division	Kanara, Eastern Division
EXPENDITURE—contd.	Rs. a. p.	Rs. a. p.	Rs. a. p.
B.—CONSERVANCY AND WORKS—contd.			
<i>II.—Timber and other produce removed from the forests by consumers or purchasers</i>		931 15 0	280 13 0
Total, B-II		931 15 0	280 13 0
<i>III.—Live Stock, Stores, Tools and Plant—</i>			
a. Purchase of cattle			
b. Feed and upkeep of cattle		90 0 0	
c. Purchase of stores, tools and plant	3,50,612 14 0	1,953 0 8	716 5 0
d. Customs Duty			
Total, B-III	3,50,612 14 0	2,043 0 8	716 5 0
<i>IV.—Communications and Buildings—</i>			
a. Railways and Tramways		57,768 1 0	
b. Roads and bridges (other than those in connection with Railways and Tramways)		19,548 10 7	4,166 6 0
c. Buildings		16,080 9 2	3,031 6 0
d. Other works	251 11 0	3,459 0 3	197 4 0
Total, B-IV	251 11 0	96,853 5 0	7,384 15 0
<i>V.—Organization, Improvement and Extension of Forests—</i>			
a. Demarcation			239 15 6
b. Forest Settlement			
c. Surveys			
d. Working Plans			
e. Plantations			
f. Reproduction		16,481 3 0	10,416 0 0
g. Fire protection		6,808 0 5	4,733 13 0
h. Other works		357 0 0	
Total B-V		23,540 3 5	15,385 11 6
<i>VI.—Miscellaneous—</i>			
a. Rent of leased forests and payments to shareholders in forests managed by Government			
b. Law charges			
c. Grain compensation allowance			
d. Clothing		2,536 7 6	1,773 1 6
e. Famine fodder charges			
f. Other charges		303 12 0	424 6 0
Total, B-VI		2,840 3 6	2,257 7 6
<i>VII.—Suspense—</i>			
a. Work advances			
Total, B-VII			
<i>VIII. Demarcation of boundaries (between British territory and Indian States)</i>		75 0 0	319 0 0
Total, B-Conservancy and Works	3,50,863 9 0	19,35,613 4 2	11,54,641 4 6
C.—ESTABLISHMENTS			
<i>I.—Pay of Officers—</i>			
a. Chief Conservator or Conservators	21,050 0 0		
b. Superior Officers plus personal and special pay	6,357 6 0	15,918 11 0	7,716 0 0
c. Leave Salary	251 1 0		
Total, I	21,050 0 0	15,918 11 0	7,716 0 0
	6,608 7 0		

of the different Divisions for the financial year 1944-45—contd.

Kanara, Western Division	Belgaum Division	Dharwar- Bijapur Division	Working Plans Division, S. C.	Total for the year 1944-45
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,163 13 3	1,401 12 3	548 8 0	.....	4,326 13 6
1,163 13 3	1,401 12 3	548 8 0	.....	4,326 13 6
.....	.....	.....	.....	90 0 0
761 4 0	29 11 0	179 8 0	55 3 0	8,56,307 13 8
761 4 0	1,029 11 0	179 8 0	55 3 0	3,55,397 13 8
.....	.....	.....	.....	57,768 1 0
9,388 8 6	3,542 7 0	5,116 0 0	.....	41,749 0 1
4,924 2 2	3,062 14 0	3,668 15 0	.....	56,787 13 4
20 0 0	57 8 0	3,221 9 0	.....	7,437 0 3
14,332 10 8	12,662 13 0	11,006 8 0	.....	1,42,541 14 8
943 8 0	75 8 0	908 14 0	.....	767 8 8
.....
.....	.....	.....	6,673 0 6	5,673 0 6
.....	.....	872 0 0	.....	292 0 0
11,279 2 6	2,453 12 0	1,098 0 0	.....	41,734 1 6
2,246 5 6	1,864 10 0	525 12 0	.....	16,170 8 0
11 0 0	.....	253 0 0	.....	618 0 0
13,778 11 0	4,403 14 0	2,954 10 0	6,673 0 6	66,839 2 6
.....
.....
2,236 6 0	1,048 13 9	2,523 4 0	97 8 0	19,207 8 9
593 7 0	62 13 0	152 5 0	.....	1,566 11 0
2,779 13 0	1,111 10 9	2,677 9 0	97 8 0	11,764 3 9
.....	125 14 6	.....	.....	125 14 6
.....	125 14 6	.....	.....	125 14 6
.....
347 7 7	100 0 0	.....	.....	835 7 7
9,12,78 13 5	12,20,578 2 0	4,56,356 14 6	6,825 11 6	60,40,481 11 11
.....
.....	15,706 7 0	8,729 0 0	.....	21,050 0 0
.....	.....	.....	.....	24,435 7 0
10,298 8 0	3,439 0 0	6,023 1 0	4,060 0 0	63,817 10 0
.....	1,321 0 0	.....	.....	1,321 0 0
.....	.....	.....	.....	251 1 0
.....
.....	17,027 7 0	8,729 0 0	.....	46,806 7 0
10,298 8 0	3,439 0 0	6,023 1 0	4,060 0 0	54,068 11 0

of the different Divisions for the financial year 1944-45—contd.

Kanara Western Division	Belgaum Division	Dharwar- Bijapur Division	Working Plans Division, S. C.	Total for the year 1944-45
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
53,775 13 0	57,548 13 0	44,335 13 3	6,668 1 0	2,28,156 11 3
13,763 15 0	12,080 3 0	9,564 15 0	1,747 6 0	74,484 8 0
.....	.....	.....	.....	90 4 0
5,731 15 0	5,015 15 0	4,439 11 0	1,327 6 0	23,634 5 0
4,935 12 0	5,060 11 0	3,411 6 0	798 12 0	22,155 0 0
78,236 7 0	79,645 10 0	61,732 13 3	19,441 9 0	3,96,511 12 3
.....
.....	2,563 14 0	2,047 10 0	.....	7,708 3 0
18,335 0 0	13,028 8 0	14,977 10 9	7,825 14 0	59,740 6 9
.....	567 0 0	.....	.....	587 0 0
.....	.....	.....	.....	278 13 0
.....
81,071 10 0	34,237 4 0	26,256 6 0	2,273 12 0	1,45,353 15 0
1,655 10 0	811 2 0	993 3 0	551 0 0	7,309 14 0
.....	3,130 14 0	2,047 10 0	.....	8,276 3 0
50,960 4 0	46,136 9 0	42,227 3 9	16,690 10 0	2,42,983 0 9
.....
49 12 0	88 13 0	68 12 0	12 0 0	473 15 6
513 5 6	3 15 0	234 4 0	219 4 0	1,887 4 6
72 0 0	100 0 0	1,028 1 6	.....	2,295 1 6
2,999 7 6	2,041 4 6	2,800 5 0	160 0 0	16,874 14 0
365 10 3	330 13 6	638 3 0	143 11 6	3,080 9 3
3,992 3 3	2,564 14 0	4,764 9 6	606 15 6	24,661 12 3
.....
.....
.....
1,43,537 6 3	1,51,944 6 0	1,25,529 5 6	25,769 2 6	7,73,027 14 3
13,541 12 0	10,254 11 2	4,938 13 0	.....	30,614 4 2
.....
10,67,861 15 8	13,82,777 4 0	5,86,726 1 0	32,654 14 0	66,44,123 14 4
+8,74,469 3 9	-19,219 5 6	-97,625 9 4	- 32,532 14 0	+ 24,36,680 1 9

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1944-45—contd.*

Budget Head.	Utilization Direction Division
UTILIZATION CIRCLE.	
REVENUE—X, FOREST.	
I.—Timber and other produce removed from the forest by Government Agency—	
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Sandalwood
e. Grass and other minor produce
Total, I
II.—Timber and other produce removed from the forest by consumers or purchasers—	
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Grazing and fodder grass
e. Other minor produce
f. Other items
g. Commutation fees
Total, II
III.—Drift and waif wood and confiscated forest produce	
Total, III
IV.—Revenue from forest not managed by Government—	
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total, IV
V.—Miscellaneous—	
a. Fines and forfeitures
b. Refunds	836 9 6
c. Other sources
d. Recovery of establishment charges
e. Contributions towards leave salaries and passage of officers lent to foreign service
Total, V	836 9 6
GROSS TOTAL, REVENUE	836 9 6
<i>Deduct—Refunds</i>
NET REVENUE	836 9 6

FORM No. 68.—Summary of Revenue and Expenditure of the
different Divisions for the financial year 1944-45—contd.

Budget Heads	Utilization Direction Division
	Rs. & p.
EXPENDITURE—10, FOREST.	
B.—CONSERVANCY AND WORKS.	
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>	
a. Timber	563 4 0
b. Fire wood and charcoal
c. Bamboos
d. Sandalwood
e. Grass and other minor produce
Total, B-I	563 4 0
<i>II.—Timber and other produce removed from the forests by consumers or purchasers</i>	
<i>Deduct—Establishment charges recoverable from contractors, etc., on account of pay of Depot officers, etc.</i>	
Total, B-II
<i>III.—Live-stock, store, tools and plant—</i>	
a. Purchase of cattle
b. Feed and upkeep of cattle
c. Purchase of stores, tools and plant	456 8 0
d. Customs duty
Total, B-III	456 8 0
<i>IV.—Communications and Buildings—</i>	
a. Railways and Tramways
b. Roads and bridges (other than those in connection with railways and Tramways)
c. Buildings
d. Other works
Total, B-IV
<i>V.—Organization, improvement and extension of forests—</i>	
a. Demarcation
b. Forest Settlement
c. Surveys
d. Working Plans
e. Plantations
f. Reproduction
g. Fire protection
h. Other works
Total, B-V

FORM No. 62.—Summary of Revenue and Expenditure of the
different Divisions for the financial year 1944-45—contd.

Budget Heads	Utilization Direction Division
EXPENDITURE—10, FOREST—contd.	
B.—CONSERVANCY AND WORKS—contd.	
VI.—Miscellaneous—	
a. Rent of leased forests and payments to shareholders in forests managed by Government	Rs. a. p.
b. Law charges ... ..	.....
c. Grain Compensation allowance ... ..	.....
d. Clothing ... ..	.....
e. Famine Fodder charges ... ..	.....
f. Other charges ... ..	.....
Total, B-VI ...	9 5 0
VII.—Suspense—	
a. Work advances ... ..	.....
Total, B-VII ...	.....
VIII—Demarcation of boundaries (between British territory and Indian States).	
IX. Deduct—Establishment charges recoverable from other Governments Departments, etc.	
TOTAL, B—CONSERVANCY AND WORKS ...	1,024 1 0
C—ESTABLISHMENTS.	
I.—Pay of Officers—	
a. Chief Conservator or Conservators	29,915 2 0
b. Superior Officers plus Personal and special pay. { Charged ... ..	.....
{ Voted	14,933 13 0
c. Leave Salary { Charged ... ..	.....
{ Voted	548 0 0
Total, I ... { Charged	29,915 2 0
{ Voted	15,539 13 0
II.—Pay of Establishment—	
a. Subordinate Forest and Depot Establishment plus special and personal pay	1,504 2 0
b. Office Establishment plus special and personal pay	2,545 7 0
c. Proficiency allowance ... ..	.....
d. Temporary Establishment plus special pay	11,189 10 0
e. Leave Salary	811 0 0
Total, II ...	16,338 3 0

FORM No. 64. — *Summary of Revenue and Expenditure of the different Divisions for the financial year 1944-45—contd.*

Budget Heads		Utilisation Direction Division
EXPENDITURE—10, FOREST— <i>contd.</i>		Rs. a. p.
C—ESTABLISHMENTS— <i>contd.</i>		
III.— <i>Allowances, Honoraria, etc.—</i>		
a. Compensatory Allowances	... .. { Charged ... Voted ...	..........
b. Travelling Allowance	... .. { Charged ... Voted ...	5,412 11 0 5,354 1 6
c. Plague Allowance (Voted)	... ..	.....
d. House-rent allowance	... .. { Charged ... Voted ...	..... 306 0 0
e. Forest training	... ..	.....
f. Grain compensation	... ..	.....
g. Dearness allowance	... ..	6,054 10 0
h. War allowance	... ..	1,097 8 0
Total, III		
... .. { Charged ... Voted ...		5,412 11 0 12,812 3 0
IV.— <i>Contingencies—</i>		
a. Stationery	... ..	24 13 9
b. Carriage of tents and records	... ..	49 1 0
c. Rents, rates and taxes	... ..	710 4 0
d. Service postage and telegram charges	... ..	3,126 7 6
e. Sundries	... ..	523 1 3
Total, IV		4,233 11 6

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1944-45—contd.*

Budget Heads	Utilization Direction Division
EXPENDITURE—contd.	Rs. a. p.
1.— <i>Establishment charges recoverable from other Governments, Departments, etc.—</i>	.....
4 { <i>Deduct amount recoverable from Raisingpur Estate</i> <i>Account of pay of Rangers, etc.</i> <i>Establishment charges payable to Central Government</i> ... ..	..... ..... .....
<i>Deduct—Establishment charges recoverable from contractors, etc. on account of pay of Guards, etc.</i> ... ..	.....
Total, V ...	.....
TOTAL C—ESTABLISHMENTS ... { <i>Charged</i> { <i>Voted</i>	35,828 13 0 48,828 14 6
Total 10. FOREST ...	85 181 12 6
SURPLUS OR DEFICIT ...	-84,346 3 0

FORM No. 68.—*Summary of Revenue and Expenditure of the
different Divisions for the financial year 1944-45—contd.*

FORM No. 68.—Summary of Revenue and Expenditure

Budget Heads		Total of all Circles
		Rs. & p.
REVENUE—X. FOREST.		
<i>I—Timber and other produce removed from the Forest by Government Agency—</i>		
(a) Timber	...	97 94,062 0 4
(b) Firewood and Charcoal	...	1,09,41,437 13 9
(c) Bamboos	...	1,951 4 0
(d) Sandalwood	...	87 058 6 9
(e) Grass and other minor produce	...	90,343 1 0
Total, I	...	2,09,14,852 9 10
<i>II.—Timber and other produce removed from the Forest by consumers or purchasers—</i>		
(a) Timber	...	82,55,842 7 8
(b) Firewood and charcoal	...	6,12,924 5 9
(c) Bamboos	...	1,56,434 1 8
(d) Grazing and fodder grass	...	2,58,67 11 0
(e) Other minor produce	...	3,35,803 4 3
(f) Other items	.....	.....
(g) Commutation fees	.....	.....
Total, II	...	66,62,471 14 4
<i>III—Drift and waif wood and confiscated Forest produce ...</i>		
	...	1,393 7 0
Total, III	...	1,393 7 0
<i>IV—Revenue from Forest not managed by Government—</i>		
(a) Duty on foreign timber and other Forest produce	...	36,151 10 0
(b) Revenue from shared and private Forests ..	...	7,256 14 8
Total, IV	...	43,408 5 8
<i>V—Miscellaneous—</i>		
(a) Fines and forfeitures	...	1,23,408 7 8
(b) Refunds	...	18,051 10 10
(c) Other sources	...	4,53,167 10 9
(d) Recoveries of establishment charges	...	1,81,680 14 3
(e) Contribution towards leave salary...	...	2,879 3 8
Total, V	...	7,79,087 15 2
<i>VI—Receipts in England</i>		

<i>VII—Transfer from the deposits on account of special Development Fund</i>		
	...	34,605 5 11
<i>VIII—Loss or gain in England</i>		

Gross total Revenue	...	3,14,35,819 12 11
Deduct Refunds	...	56,845 10 1
Net Revenue	...	3,13,78,974 2 10

of the different Divisions for the financial year 1944-45—contd.

Silvicultural Division	Forest Engineering Division	General Division	Total for 1944-45 Bombay Province
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	97,94,069 0 4
5 4 0	1,09,41,443 1 9
.....	1,951 4 0
251 5 0	17,063 5 9
.....	90,694 5 0
956 9 0	2,09,15,179 2 10
.....	82,58,849 7 8
.....	6,12,924 5 9
.....	1,96,434 1 8
.....	2,8,467 11 0
.....	3,35,803 4 3
.....
.....	96,62,471 14 4
.....	1,893 7 0
.....	1,893 7 0
.....	36,151 10 0
.....	7,256 14 8
.....	43,408 8 8
.....	1,23,408 7 8
.....	170 0 0	.....	15,321 10 10
.....	978 0 3	322 2 9	4,54,207 13 9
.....	1,81,680 11 3
.....	2,679 3 8
.....	1,148 0 3	224 2 9	7,50,468 2 2
.....	380 0 0	380 0 0
.....	34,805 5 11
.....	0 10 0	0 10 0
256 9 0	1,148 0 3	602 12 9	3,14,37,527 2 11
Nil	58,845 10 1
256 9 0	1,148 0 3	602 12 9	3,13,50,981 8 10

FORM No. 68.—Summary of Revenue and Expenditure

Budget Heads	Total of all Circles
EXPENDITURE—10. FOREST.	Rs. a. p.
B.—CONSERVANCY AND WORKS.	
I—Timber and other produce removed from the Forests by Government Agency—	
(a) Timber	58,87,337 12 8
(b) Firewood and charcoal	1,01,39,459 15 4
(c) Bambos	1,681 14 0
(d) Salwood	2,1843 6 6
(e) Grass and other minor produce	75,729 3 0
Total, B-I ...	1,58,32,046 5 7
II—Timber and other produce removed from the Forests by consumers or purchasers—	
Establishment charges recoverable from other Governments, Departments, &c.	1,95,473 2 6
Deduct Establishment charges recoverable from contractors etc. on account of pay of Depot-officers, etc.	.....
Total, B-II ...	1,95,473 2 6
III—Live-stock, stores, tools and plant—	
(a) Purchase of cattle ... ..	.....
(b) Feed and upkeep of cattle	90 0 0
(c) Purchase of stores, tools and plant	3,69,681 2 8
(d) Customs duty ... ..	.....
Total, B-III ...	3,69,771 2 8
IV—Communications and Buildings—	
(a) Railways and Tramways	57,769 1 0
(b) Roads and bridges (other than those in connection with Railways and Tramways)	72,247 9 7
(c) Buildings	58,219 9 11
(d) Other works	8,739 6 9
Total, B-IV ...	1,97,004 11 3
V—Organization, improvement and extension of Forests—	
(a) Demarcation	5,526 11 6
(b) Forest Settlement	3,082 9 0
(c) Surveys ... ..	.....
(d) Working Plans	6,673 0 6
(e) Plantations	1,877 13 0
(f) Reproduction	25,951 3 0
(g) Fire protection	41,683 14 6
(h) Other works	14,026 3 3
Total, B-V ...	1,58,891 5 9

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head.	Total of all Circles
EXPENDITURE—10, FOREST—contd.	Rs. a. p.
VI.—Miscellaneous—	
(a) Rent of leased forests and payments to shareholders in forests managed by Government.	39,090 13 6
(b) Law charges	2,787 15 0
(c) Grain Compensation allowance	33,374 3 8
(d) Clothing	185 0 0
(e) Famine Folders charges	3,369 13 0
(f) Other charges	
Total, B-VI	84,107 11 9
VII.—Suspense—	
(a) Work advances	-637 8 6
Total, B-VII	-637 8 6
VIII.—Demarcation of boundaries (between British territory and Indian States).	878 15 7
IX.—Establishment charges recovered from other Government Departments and Contractors.	-524 10 0
Total, B-Conservancy and Works	1,66,36,851 4 7
C. ESTABLISHMENTS.	
A. GENERAL DIRECTION.	
I.—Pay of Officers.	
(a) Chief Conservator or Conservators	23,061 4 0
(b) Superior Officers plus Personal and special pay (Charged)	59,152 15 0
Superior Officers plus Personal and special pay (Voted)	1,81,624 0 0
Personal Assistant to the Chief Conservator plus special pay (Voted)	
(c) Leave Salary	{ Charged ... 1,331 0 0
	{ Voted ... 3,559 19 0
Total, I	{ Charged ... 1,63,536 3 0
	{ Voted ... 1,85,363 19 0
II.—Pay of Establishment —	
(a) Subordinate Forest and depot Establishment plus special and personal pay.	8,71,005 9 9
(b) Office Establishment plus special and personal pay	
(a) Office Establishment	2,06,740 1 0
(d) Proficiency allowance	90 4 0
(d) Temporary Establishment plus special pay	57,734 13 0
(e) Leave Salary	78,757 0 0
Total II	12,22,327 11 9

of the different Divisions for the financial year 1944-45—contd.

Silvicultural Division.	Forest Engineering Division.	General Direction Division.	Total for 1944-45 Bombay Province.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	.....	88,090 18 6
.....	.....	.....	2,787 15 0
174 14 0	39 14 0	.....	88,968 15 3
3,989 9 6	504 14 2	160 0 0	185 0 0
			7,944 3 8
4,164 7 6	544 12 2	160 0 0	88,996 16 5
.....	.....	-20 3 0	-657 11 6
.....	.....	-20 3 0	-657 11 6
.....	.....	.....	878 15 7
.....	.....	.....	-624 10 0
4,164 15 6	68,275 7 2	153 2 8	1,67,29,474 13 11
.....	.....	80,660 11 0	1,23,141 15 0
.....	12,900 8 0	.....	72,053 7 0
12,360 5 0	13,310 14 0	7,479 6 0	2,14,974 8 0
.....	3,249 8 0	9,312 3 0	13,9 2 11 0
.....	.....	1,318 15 0	4,878 11 0
.....	16,200 0 0	39,392 14 0	2,09,128 1 0
12,360 5 0	13,310 14 0	8,798 5 0	2,19,553 4 0
4,074 8 0	229 5 0	.....	8,75,809 6 9
2,389 1 0	.....	8,876 10 0	2,16,005 12 0
.....	.....	.....	80 4 0
1,320 0 0	19,355 13 0	481 0 0	68,891 10 0
362 10 0	1,690 11 0	763 7 0	81,573 12 0
8,146 8 0	21,275 13 0	10,121 1 0	18,61,870 13 9

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head.		Total of all Circles
		Rs. a. p.
EXPENDITURE—10, FOREST—contd.		
<i>III—Allowances, Honoraria, etc.—</i>		
(a) Compensatory allowances.	{ Charged ... Voted ...	..... 4,473 15 0
(b) Travelling allowance.	{ Charged ... Voted ...	97,889 7 0 2,97,090 12 9
(c) Plague allowance	Voted	.....
(d) House-rent allowance.	{ Charged ... Voted ...	567 0 0 419 0 0
(e) Forest training		728 0 0
(f) Grain compensation		.....
(g) Cost of passages granted under the Superior Service Rules, 1924 (Charged).		.....
(h) Payments on account of Medical treatment of British Officers of the "Superior Civil Service".		.....
(i) Dearness allowance—Voted		4,79,281 2 0
(j) War allowance—Voted		19,786 7 0
	Total III ... { Charged ... Voted ...	98,456 7 0 8,00,778 4 9
<i>IV—Contingencies—</i>		
(a) Stationery		1,256 6 9
(b) Carriage of tents and records		8,085 10 0
(c) Other Non-contract contingencies		6,214 1 8
(d) Rents, rates and taxes		.....
(e) Service postage and telegram charges		53,259 6 3
(f) Sundries		12,360 0 0
	Total IV ...	81,125 11 4
<i>V.—Establishment charges recoverable from other Governments, Departments, etc.</i>		
(a) Deduct amount recoverable from Raisingpur State Revenue and Excise on account of pay of Rangers, etc.		-14,712 1 0
(b) Establishment charges payable to Central Government		.....
Do. transferred from 40 Agriculture	{ Charged ... Voted ...	..........
Deduct establishment charges recoverable from contractors, etc., on account of pay of guards, etc.		.....
	Total V ... { Charged ... Voted ...	..... -14,712 1 0
Total... C. Establishment	{ Charged ... Voted ...	1,81,991 10 6 22,74,903 6 10
A. General Direction		.....

of the different Divisions for the financial year 1944-45—contd.

Silvicultural Division	Forest Engineering Division.	General Direction Division.	Total for 1944-45 Bombay Province.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
150 0 0	.....	500 0 0	4,123 15 0
.....	2,188 3 0	2,722 7 0	32,800 1 0
6,091 12 0	9,369 1 0	1,743 4 0	3,14,307 13 9
.....
.....	.....	.....	567 0 0
.....	900 0 0	.....	1,319 0 0
9 0 0	.....	10,029 10 0	10,766 10 0
.....
.....	.....	6,920 10 0	6,920 10 0
.....
2,390 4 0	4,403 9 0	3,537 14 0	4,89,612 13 0
440 0 0	1,167 13 0	802 11 0	22,195 10 0
.....	2,188 3 0	8,943 1 0	39,567 11 0
9,061 0 0	15,853 7 0	16,613 7 0	8,42,326 9 9
4 7 0	39 10 0	.....	1,300 7 9
151 9 0	65 2 0	1,271 15 10	9,524 4 10
.....	50 0 0	.....	6,261 1 8
875 0 0	1,050 2 0	1,100 8 0	55,755 0 3
160 3 6	921 10 0	.....	13,442 0 2
691 3 6	2,126 8 0	2,372 7 10	86,315 14 6
.....	.....	.....	-14,712 1 0
.....	.....	3,800 0 0	3,800 0 0
.....	.....	105 0 0	105 0 0
.....	.....	2,946 0 0	2,946 0 0
.....
.....	.....	105 0 0	105 0 0
.....	.....	8,745 0 0	-7,965 1 0
.....	18,388 3 0	46,440 15 0	2,48,820 12 0
30,278 11 6	62,566 10 0	44,651 4 10	24,02,400 1 2

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head.	Total of all Crores.
Rs. a. p.	
EXPENDITURE—10, FOREST—contd.	
D—Special Development Programme	34,605 5 11
E—Interest on Capital—Charged ... ..	.....
F—Charges in England—	
(a) Leave salaries and Deputation pay—	
(i) Expenditure of the Secretary of State ... ..	.....
(ii) Expenditure of the High Commissioner for India ... ..	.....
(b) Sterling Overseas Pay—	
(i) Expenditure of the Secretary of State ... ..	.....
(ii) Expenditure of the High Commissioner for India ... ..	.....
(c) Stores for India—	
(i) Expenditure of the Secretary of State ... ..	.....
(ii) Expenditure of the High Commissioner for India ... ..	.....
(d) Other Charges—	
(i) Allowment of officers—(Charged) ... ..	.....
(ii) Cost of publication—(Voted) ... ..	.....
Total, F ...	.....
	{ Charged
	{ Voted
G.—Loss or Gain by Exchange.	.....
	{ Charged
	{ Voted
Total—10, Forest ...	1,91,28,351 11 4
Surplus or deficit ...	+1,32,50,822 7 6

of the different Divisions for the financial year 1944-45—concl'd.

Agricultural Division.	Forest Engineering Division.	General Direction Division.	Total for 1944-45 Bombay Province
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	34,508 5 11
.....	33,338 0 0	67,846 5 11
.....
.....	44,956 7 0	44,956 7 0
.....
.....	19,998 1 0	19,998 1 0
.....
.....
.....	2,987 9 0	2,987 9 0
.....	74 7 0	74 7 0
.....	67,192 1 0	67,192 1 0
.....	74 7 0	74 7 0
.....	118 10 0	118 10 0
.....	0 15 0	0 15 0
34,443 11 0	1,59,330 4 2	1,93,999 7 6	1,96,16,028 2 0
-34,167 2 0	-1,58,082 9 11	-1,93,306 10 9	+1,18,64,956 6 10

FORM No. 59.—Revenue received and

Division.	Particulars.	Outstandings at commencement of year.	Value of Sales and other Revenue during year.
1	2	3	4
NORTHERN CIRCLE		Rs. a. p.	Rs. a. p.
Direction	.....	.....	5,322 7 0
Panch Mahals	Timber and other forest produce.	17,437 2 2	14,10,932 5 4
North Thana	Do.	2,14,919 8 3	41,15,750 14 0 (e) 3,991 1 9
East do.	Do.	3,67,872 11 6	34,44,332 10 3
West do.	Do.	3,38,132 2 9	35,34,375 3 2
East Nasik	Do.	3,343 2 0	1,75,767 6 9
West do.	Do.	32,672 11 0	5,58,667 5 8
Surat Sub-Division	Do.	11,891 0 0	9,40,493 2 2
Total, Northern Circle		9,92,073 5 6	1,41,85,931 6 4 (e) 3,991 1 9
CENTRAL CIRCLE.			
East Khandesh	Timber and other forest pro- duce and revenue from various sources.	15,125 8 0	2,78,010 9 2
West do.	Do.	56,918 6 6	10,36,477 8 5
West Khandesh Sub Divi- sion.	Do.	1,577 13 0	2,22,912 8 6
Poona	Do.	25,398 2 0	2,38,212 15 7
Kolaba	Do.	973 4 11	54,61,227 7 4
Satara	Do.	12,575 0 0	1,72,216 8 0
Working Plans, Central Circle.	Do.	.....	.....
Direction	Do.	.....	2,330 4 0
Total, Central Circle		1,13,569 2 5	75,17,617 8 7
SOUTHERN CIRCLE.			
Direction	Various sources	.....	2,992 15 2
Kanara N. D.	Various sources, timber and other forest produce.	3,16,121 4 0	39,01,645 15 3 (e) 1,579 0 0
E. D.	Do.	38,024 1 2	19,05,737 11 7
W. D.	Do.	88,910 8 0	14,81,464 13 4 (e) 13,541 12 0

Outstandings on account of Revenue during 1944-45.

Total	Amount realized during year.	Balance due to the Department at end of year.	Remarks.
5	6	7	8
Rs. a. p.	Rs. a. p.	Rs. a. p.	
5,26 7 0	5,237 7 0	.....
1 4,37,669 7 6	(a) 25 0 0 14,14,082 13 11	3,266 10 11	
31,670 6 8	(a) 5,319 14 8 49,37,398 13 0	84,695 14 6	
3,991 1 9	(a) 1,635 10 9 (c) 3,9-1 1 9		
39,12,255 5 9	(a) 36,84,811 13 0 (c) 521 7 0 23,227 8 0	1,03,686 9 9	
38,72,508 5 11	(a) 37,52,545 10 2 (c) 1,086 14 0 4,511 12 0	1,19,464 2 9	
1,79,110 1 9	(a) 1,71,957 8 9 (c) 139 0 0	3,984 0 0	
97,240 0 8	(a) 5,32,513 9 8 (c) 1,247 14 0 48,241 6 0	14,942 1 0	
9,52,994 2 2	(a) 9,34,813 8 2 (c) 1,706 0 0	23,784 10 0	
1,51,78,010 12 0	1,47,21,525 3 8	3,49,821 0 11	
2,3,9 1 1 9	(a) 30,549 11 5 (c) 75,970 12 0 (c) 3,921 1 9		
3,91,137 1 9	(a) 3,41,378 2 0 (b) 5,916 5 6 61 0 0	45,859 5 3	
10,93,395 14 11	(a) 10,89,525 5 11 (c) 1,723 3 0	1,842 6 0	
2,31,490 5 6	(a) 2,25,049 5 6 (b) 165 12 0 372 0 0	2,904 4 0	
2,631.74 1 7	(a) 2,49,925 12 7 (c) 141 11 0	13,673 10 0	
54,62,210 12 3	(a) 52,99,739 7 11 (c) 1-6 8 0 1,59,653 8 0	1,62,304 12 5	
1,85,791 2 0	(a) 491 14 0	25,646 2 0	
.....	
5,330 4 0	(a) 3,275 10 0 61 19 0	.....
7 6,31,026 11 0	73,71,714 3 10 (a) 6,704 15 6 (b) 435 0 0	2,52,330 7 8	
9,292 15 3	(a) 2,172 15 3 (c) 120 0 0	.....
42,17,767 5 3	(a) 41,74,065 3 3 (c) 160 10 0	36,349 6 0	
(c) 1,879 0 0	(c) 2,125 9 0 (d) 67 0 0 (e) 1,879 0 0		
19,43,751 13 4	(a) 18,08,695 4 0 (d) 4 11 0	1,35,060 14 4	
15,70,375 0 4	(a) 14,39,789 7 5 (c) 7,528 11 2	.....
(c) 13,541 12 0	(a) 58,514 0 0 (c) 61 8 0 (c) 13,541 12 0	2,73,182 5 9	

FORM No. 69—Revenue received and

Division 1	Particulars 2	Outstandings at commencement of year. 3	Value of Sales and other Revenue during year. 4
		Rs. a. p.	Rs. a. p.
SOUTHERN CIRCLE —contd.			
Belgaum ...	Various sources, timber and other forest produce.	2,29,019 1 10	12,16,648 8 4 (e) 10,964 11 2
Dharwar-Bijapur ...	Do. ...	60,596 9 8	4,60,807 14 7 (e) 4,338 13 0
Working Plans, Southern Circle.	Do. ...	.....	2 0 0
Total, Southern Circle ...		7,51,671 3 10	89,88,599 11 4 (e) 80,614 4 2
Utilization Circle ...	Various Sources ...	.....	886 9 8
Silvicultural Division ...	Do. ...	.....	256 9 0
Forest Engineering Division.	Do. ...	.....	1,148 0 3
General Direction Division:	Do. ...	.....	602 12 9
Total, Bombay Province ..		18,37,618 11 11	8,06,74,893 9 9 (e) 84,605 6 11

Outstandings on account of Revenue during 1944-45—contd.

Total.	Amount realized during year.	Balance due to the Department at end of year.	Remarks.
5	6	7	
Rs. a. p.	Rs. a. p.	Rs. a. p.	
14,44,667 7 2	() 13,53,303 3 4	} 86,722 13 10	
(e) 10,254 11 2	() 1,521 6 0		
	(c) 1,110 0 0		
	(e) 10,254 11 2		
	(a) 4,83,160 10 8		
5,21,404 7 10	(a) 10,320 4 0	} 28,023 9 2	
(e) 4,933 13 0	(e) 4,933 13 0		
2 0 0	2 0 0	
97,00,270 15 2	(a) 92,50,189 11 11	} 3,61,349 1 1	
(e) 30,514 4 2	(a) 19,550 15 2		
	(c) 69,048 0 0		
	(d) 133 3 0		
	(e) 30,514 4 2		
836 9 6	836 9 6	
255 9 0	255 9 0	
1,148 0 3	1,148 0 3	
602 12 9	602 12 9	
25,12,212 5 8	(a) 2,13,46,376 2 11	} 9,63,403 9 3	
(e) 34,605 5 11	(a) 56,815 10 1		
	(b) 435 0 0		
	(c) 1,45,018 12 0		
	(d) 133 3 0		
	(e) 34,605 5 11		

(a) Refunds.

(b) Written off under proper authority.

(c) Deletion due to cancellation of sales, remission of fines, etc.

(d) Errors corrected.

(e) Transferred from the Departmental account of Special Development Fund.

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FOREST ADMINISTRATION REPORT OF THE PROVINCE OF BOMBAY FOR THE YEAR, 1945-46.

CHAPTER I.

CONSTITUTION OF STATE FORESTS.

(1) ALTERATION IN AREAS.

The alterations caused by afforestations and disforestsments during the year resulted in a net loss of 3 square miles in the reserved forests in charge of the Forest Department. This loss which has been shared by all the Circles is due to errors involving about 1 square mile made in the previous year in rounding the figures in the Northern Circle, disforestsments of about 1 square mile in the Southern Circle in favour of cultivation and the exclusion of 1 square mile (640 acres and 23 gunthas) being the difference in the area disforested and handed over to the Revenue Department for management. The changes in the areas of protected forests in charge of the Forest Department and also in the areas of reserved and protected forests in charge of the Revenue Department were negligible. The total areas of reserved forests in charge of the Forest and Revenue Departments at the close of the year stood at 10,521 and 1,595 square miles respectively. The areas of protected forests in charge of both the Departments remained unaltered, i.e. 160 and 595 square miles respectively.

(2) FOREST SETTLEMENT.

2. The total area of reserved forests pending settlement at the commencement of the year was 6 square miles and 390 acres to which further 151 acres were added during the year. Out of this an area of 644 acres has been excluded due to the proposals regarding exchange of lands at Chakora, Mahirawani and Belgaon Dhaga in the Northern Circle having been dropped. 39 acres were finally settled during the year.

3. An area of 12 acres and 9 gunthas from the Class I survey numbers within the demarcation line in the Satara Division was acquired at a cost of Rs. 960. No further progress in the acquisition of Class I survey numbers within demarcation line in the Poona and Satara Divisions could be made and out of the total Rs. 8,000 allotted for the purpose during the year Rs. 7,040 had to be surrendered.

(3) DEMARCATION.

4. No new boundaries were demarcated during the year and 22,266 miles of the existing boundaries (including those between British territory and Goa and Indian States) were repaired at a cost of Rs. 4,510. The total length of boundaries at the close of the year was 37,110 miles.

(4) FOREST SURVEYS.

5. No survey work was done during the year. The expenditure on the constitution of state forests was Rs. 5,470 against Rs. 9,488 in the previous year.

CHAPTER II,

MANAGEMENT OF STATE FORESTS.

1. REGULATION OF MANAGEMENT.

Preparation and Control of Working Plans.

(a) Preparation of Working Plans.

6. During the war extra fellings had to be carried out in all the Divisions in order to meet Military demand and the requirements of the Civil population. These extra fellings upset to a large extent the prescriptions of the existing Working Plans and as new problems have to be faced in the Post-War period all Working Plans will have to be revised. But before revision can be undertaken much data will have to be collected and Government Policy about their forest estate staff, funds for development, etc., will have to be laid down. It is expected this Policy will be declared in the near future.

7. Preliminary inspections in connection with the revision of the present Panch Mahals Working Plans were undertaken by the Divisional Forest Officer, Working Plans, Northern Circle, and completed during the year. The collection of data about waste lands in the Panch Mahals Division was also taken up during the year but the work could not be completed as the Revenue staff was too busy to render the necessary help.

8. The collection of data in respect of afforestation of areas in Bulsar, Pardi, Chikhali, Jalalpur, Olpad, Bardoli, Mandvi and Walod talukas of the Surat District and Broach, Ankleshwar, Jambusar and Wagra talukas of the Broach District was in progress during the year. Some of the areas of reserved forest in Ahmednagar District which are in charge of Revenue Department were inspected to ascertain which of these are suitable for re-afforestation and management by this Department. The work is still in progress.

9. The collection of data in respect of the forests of the Ratnagiri District in charge of the Revenue Department was completed by the Divisional Forest Officer, Working Plans, Central Circle.

10. The inspection of malki and Inam forests in the Kolaba District was continued by the Divisional Forest Officer, Working Plans, Central Circle.

11. A scheme for the improvement of the Reserved Forest areas and Government waste lands in the Sangola taluka of the Sholapur District was drawn up by the Divisional Forest Officer, Working Plans, Central Circle.

12. In the Southern Circle most of the teak bearing forests have been overexploited for War Supplies.

13. N. D. Kanara Series I-VII, which contained the finest and most accessible stock of valuable teak, has suffered most. This area has also been subjected to heavy fellings of Matti (*Terminalia tomentosa*), Kindal (*Terminalia paniculata*), Sissum (*Dalbergia latifolia*) and Heddi (*Adina cordifolia*). Other areas, including the Pole forests, have also been heavily overworked for teak and for many jungle wood species.

14. In W. D. Kanara World War II (in the same way as World War I) made possible the exploitation of species which were scorned in peace time or were too inaccessible to permit of profitable extraction. There was a large output of poon (*Colophyllum tomentosum*) and bharnige (*Vite altissima*) amongst several other species, while gurjan (*Dipterocarpus turbinatus*) and kiralbogi (*Hopea parviflora*) were extracted in considerable quantities for, it is believed, the first time.

15. The war fellings have made necessary a recalculation of the permissible yield in most of the previously organised forests. It is inevitable that in many of them, the yield for a period will have to be fixed at a reduced figure so that the forests may be restored to normal. But other fellings have shown the possibilities at present locked away in the unorganised forests, though there is as yet no data on which to base a scheme of management.

16. The first step towards collecting the information about overfellings in the organised forests and the stocks in the unorganised areas was taken towards the end of the year. It was decided that 5 per cent. or 10 per cent. enumerations of all species (including Bamboos) of most of the forests in the Southern Circle should be carried out. A start was made in February 1946 in the forests. Forests of the Northern Division, Kanara, which, besides containing the most valuable teak forests in the Circle, have, at the same time, suffered from the heaviest exploitation for war supplies.

17. A greatly expanded Working Plan organisation has been asked for which, if sanctioned, should enable the completion of most of this tremendous task by the end of 1948.

18. The Revised Working Plan for the Gund Forests [Blocks X and XI (Part)] was finally sanctioned in Government Resolution, Revenue Department, No. 1416/45 of 14th January 1946. The cost of preparation was Rs. 51-6 per square mile. It prescribes Selection Fellings in part of the area and conversion of Working Circle I to uniform by clear felling and planting.

19. The draft Working Plan for the Sirsi-Siddapur Sandalwood areas which was completed last year was reviewed during the year. It will be submitted shortly for final approval.

20. The figures of cent per cent enumeration carried out in Compartments 6 to 8 and 9-AB of Block XVII Nirsol Slopes were computed and the results tabulated in the prescribed form.

21. Requisite statistics for the preparation of a systematic plan for the Teak Pole Blocks I to V of Nagargali Range were collected during the year. The forests of Patne and Chandgad were also gone over for the collection of information regarding past working, etc.

(b) Control of Working Plans.

22. The prescriptions of the Working Plans in force were kept in view but had to be transgressed in many cases in order to meet the demand for timber, firewood and charcoal for Military and Civil Supplies. Many advance coupes had to be worked along with current coupes in the Northern and Central Circles.

23. Some coupes in the Southern Circle remained unsold due to lack of demand or inaccessibility and certain coupes in Kanara Western Division were held from sale and opened for the exercise of privileges by the public in accordance with Government Orders.

24. II and III thinnings under the Revised Working Plans for the Thana Forest had again to be postponed in North Thana Division due to heavy programme of clear felling coupes and in West Thana Division due to shortage of labour, etc.

25. In Southern Circle the planting programme had to be postponed in some cases for want of labour.

26. It is expected it will be possible in the next annual report to give more details about overfellings and deviations from existing Working Plans.

27. Speaking generally it is expected that Working Plan Silvicultural prescriptions which had to be neglected can be brought up-to-date within about two years and that an augmented plantation programme will bring the prescribed area under plantation in less than 5 years. Recovery from overfellings will, of course, take a much longer period.

Communication and Buildings

(a) Roads and Bridges.

28. A number of roads and carts tracks have been constructed and maintained by the Forest Department and several new roads have been projected and approved administratively by competent authorities. All these new roads as also others considered necessary for tapping valuable forests have been included in Post-War plans. Government orders on some of these schemes have since been received ; on others are awaited.

29. During the year 4 furlongs of the Yewoor-Pokharan road in the West Thana Division was transferred to this Department from the District Local Board.

30. A lump sum-contribution of Rs. 3,000 towards the improvements and an annual contribution of Rs. 200 towards maintenance of the road from Taleghar to Roha via Nalephodi was made to the District Local Board, Kolaba.

31. The expenditure under new works was Rs. 9,288 against Rs. 5,194 in the previous year. Out of this amount Rs. 6,288 were spent on reconstruction of culverts in miles 5/5 and 6/5 on Anshi-Yermukh and in mile 9/7 on Tamangi Ghat road and construction of a culvert in mile 5/4 on Kadra-Shivapur Road. Rs. 3,000 were paid to the District Local Board, Kolaba, for the improvements to Taleghar-Roha road as stated above. 1,268 miles of roads and 64 miles of cart tracks and bridle paths, were repaired at a total cost of Rs. 97,600 as against 1,245 miles of roads and 66 miles of cart-tracks and bridle paths at a cost of Rs. 67,054 in the previous year.

32. On the whole the forest roads and tracks have stood up to the extra heavy traffic caused by over fellings fairly successfully ; but they now all require completely rehabilitating and a three year programme with this objective in view is now being completed.

33. An augmented Forest Engineering staff will be essential to execute these works and the heavy building programme which is also so essential.

(b) Buildings.

34. The total expenditure on new buildings during the year amounted to Rs. 69,775 (including a sum of Rs. 19,846 allotted from the Special Development fund for the construction of quarters for subordinates in the malarious localities) as against Rs. 54,805 in the previous year. Repairs to existing buildings were carried out at a cost of Rs. 41,229 against Rs. 39,066 last year.

35. During the year the guards quarters of Savkheda in East Khandesh were transferred to the Revenue Department.

36. The proposals for buildings under Post-war Reconstruction Schemes have been reduced by 75 per cent. but as the housing of the Forest staff is still far from satisfactory (particularly in the unhealthy Kanara forests), it is hoped that funds will be made available in order that a large building programme to house all the establishment and provide suitable office accommodation can be completed within 5 years or so.

(c) Other works.

37. The total expenditure on new works and repairs was Rs. 1,597 and Rs. 6,503 respectively against Rs. 3,539 and Rs. 5,334 last year.

3. PROTECTION OF FORESTS.

38. The following table compares the number of forest offences during the year with those of the previous year and the average of the past three years:—

Class of offence.	1945-46.				Total for the year 1944-45.	Average for 1942-43 to 1944-45.
	Northern Circle No.	Central Circle No.	Southern Circle No.	Total No.		
I. Injury to forest by fire ...	905	819	198	1,922	2,395	1,768
II. Unauthorised felling or removal of forest produce.	8,053	5,873	2,112	16,038	15,382	14,669
III. Unauthorised grazing ...	2,490	1,949	281	4,720	4,646	5,147
IV. Other offences ...	1,476	1,241	439	3,156	3,317	3,473
Total for 1945-46 ...	12,924	9,882	3,030	25,836	...	...
Total for 1944-45 ...	12,982	9,789	2,969	...	25,740	...
Average for 1942-43 to 1944-45	12,696	9,749	2,612	...	...	25,057

39. The total number of offences detected during the year shows an increase over the number of the previous year and the average of the past 3 years but the change in total is not great. The causes of increase or decrease under each head are given below :—

(i) INJURY BY FIRE AND FIRE PROTECTION.

40. In the Northern and Central Circles there have been decreases in the number of fires and their extent which the Conservators of Forests attribute to better fire protection—especially by contractors employed in charcoal burning—and removal of more grass by villagers etc. because of scarcity of fodder and high prices.

41. The damage done in some of the more valuable forests (e.g. the Than) is still tremendous.

42. As regards the Southern Circle, the Conservator of Forests, S. C., reports :

43. “ Special precautionary measures were taken. Attempts to protect forest areas from fire were confined mainly in this Circle to—

(a) Areas under regeneration.

(b) Areas under exploitation and silvicultural treatment,
and

(c) Areas easily susceptible to fires from way-farers, Railway engines, etc.

44. In order to do this it is, of course, necessary to embrace within the protected area considerable tracts of forest which is not yet under special treatment. This applies, for instance, to the whole of P. B. I. of the Yellapur-Mundgod Teak High Forest Plan and to areas adjoining the Bhagwati plantations.

45. The general statement also does not imply that all the rest of the forest is burnt annually. Unfortunately, however, very large areas are burnt regularly and this problem must be tackled seriously in the future. The stock of timber has been so depleted by War fellings that we can no longer afford if we ever could to throw away the annual increment of growth which is lost by the destruction of soil fertility and of the natural humus. Not only that, but all forms of natural regeneration must be cared for and fostered, so as to replace timber trees and to form a cover which will increase the natural fertility—sadly depleted—of the soil.

46. The area burnt shows an increase. This is due partly to unfavourable weather conditions and partly to the fact that large quantities of rejected wood left behind in war kamgaries all over the compartments provide inflammable material, rendering control difficult and expensive.

47. 1,748 acres of plantations were burnt in Kanara Eastern Division against 800 acres in the previous year, though all usual attempts were made for the protection by clearing guide lines and fire tracing.”

48. The necessity for improved fire protection is realised by all forest officers and it is hoped Government will allot additional funds in future so that this work may be carried out regularly in a far more thorough manner in future than in the past. Many fires are undoubtedly deliberate and propaganda will be essential and perhaps community rewards and punishments have to be introduced before protection can be really effective.

(ii) UNAUTHORISED FELLING AND REMOVAL OF FOREST PRODUCE.

49. There is an increase of 656 cases on the whole, the Northern and Central Circles contributing thereto. The Southern Circle however shows a decrease of 57 cases.

50. Timber now fetches such high prices and firewood is costly and scarce so the incentive to steal from the forests is naturally greater. Though a large number of cases are detected it is probable that an equally large number are not reported because the supervising staff of Divisional Forest Officers and Range Forest Officers are not now able to devote the amount of time necessary to general forest inspection. Government has been requested to sanction reduction in the size of territorial units which would enable more supervision to be exercised.

51. The Conservator of Forests, Southern Circle, states that deterrent-punishment in the Belgaum Division combined with the opening of a Government Firewood Depot at Gokak has reduced offences in that area.

(iii) UNAUTHORISED GRAZING AND PROTECTION FROM CATTLE.

52. The offences under this head also show an increase of 74 cases. The Northern Circle shows a decrease while the Central and Southern Circles show an increase.

53. These offences are on the increase and this tendency is likely to continue partly because of scarcity and partly because sheep and goat raising is now so very profitable.

54. High grazing fees have always had the effect of reducing the number of unproductive animals grazing in forests and proposals about re-introduction of grazing fees are now before Government.

55. The areas open and closed to grazing were :—

	Square miles.	Percentage.
Closed to all animals for the whole year	920	7.1
Closed to all animals for the part of the year	60	0.5
Open to all animals for the whole year	4,557	35.4
Open to all animals except browsers for the whole year	7,044	54.8
Open to all animals except browsers for part of the year	287	2.2
Total	12,868 *	100.0

* Excludes 2 Square miles submerged in the Bhandardara lake.

56. The area open to grazing for horned cattle throughout the year was 11,602 square miles or 90·2 per cent. This area was generally sufficient except in the dry belt area where the ratio of cattle to available grazing is always excessive.

57. The total number of animals admitted to graze was 2,176,903 against 1,860,279 in the previous year. These figures are however hypothetical as it has not been possible for some of the Divisional Forest Officers to get accurate figures from village officers who are now issuing grazing permits.

58. The increase occurs mainly in the Southern Circle and is due partly to rinderpest having died out and to the consequent purchase of milch, plough and draught animals and partly to the increase in the number of sheep and goats admitted to graze in the forests of Gokak and Hukeri Talukas.

(iv) OTHER OFFENCES.

59. There is a decrease of 161 cases on the whole. The offences under this category consist of breaches of transit rules, encroachment on lands and illicit shikar. No particular reasons can be attributed to the variations in the number of offences under this head.

60. In all 87 cases of the year were taken to Court. Out of 609 cases (87 new and 522 old) 262 cases were decided in favour and 10 against. The percentage of successful cases was 96·3.

61. During the year 21,622 cases were disposed of under section 68 of the Indian Forest Act. Of these 21,293 were compounded, the amount of compensation recovered being Rs. 1,75,751 or Rs. 8·3 per case against Rs. 7·2 per case in the previous year.

4. PROTECTION AGAINST INJURIES FROM NATURAL CAUSES.

(a) Vegetable Pests.

62. (i) Creepers and climbers were cut as usual by subordinates and through contractors wherever possible.

63. (ii) *Lantana*.—The growth of lantana continued to increase in the forest of Poona and Satara Divisions of the Central Circle, and it is reported that it is doing damage to very young plantations in the Southern Circle. It is hoped to start experiments in connection with lantana control during the next few months.

64. (iii) *Loranthus*.—This pest though mostly confined to Kumta and Honavar Ranges is tending to spread all over the teak plantations of Kanara Western Division. Measures taken to eradicate the disease by cutting off the affected branches and burning them have not proved effective as was apparent from the re-appearance of the pest on the cut branches. This method however, is being continued on an experimental basis in some of the most affected teak plantations on the lines given in the Indian Forester of June 1945 in article "Loranthus attack on Sal Plantations"

Mr. D. A. G. Davidson, I.F.S. Plots one acre in extent have been selected the results are being watched. The pest is also tending to increase in some of the older plantations of Nagargali Range of the Belgaum Division.

3. (iv) *Bamboos*.—Dowga bamboos (*Bambusa arundinaceæ*) have got out and in many plantations. This is largely due to lack of labour and to the pre-emption of the staff with timber supply during the war years. Divisional Officers have been instructed to prepare a programme for rehabilitation of overgrown plantations. This will require heavy expenditure but if funds provided it should be possible to execute the works within about 3 years.

4. (v) Prickly-pear which had made its re-appearance last year in Dharwar Division did not grow up during the year and there was practically no damage on this account.

(b) Animal Pest.

1. Browsing by wild animals and stray cattle did occasional damages to plantations in the East Thana Division. Damage to plantations by monkeys was again in the Mandvi forests of the Surat Sub-Division, but the total damage was less this year. *Sambhar*, *Nalgai* and porcupine were also responsible for some damage in Surat Sub-Division and West Nasik Division. In the Southern Circle, Dharwar Division, monkeys, *cheetal*, *sambhar*, barking deer, wild pig, porcupine, and wild dogs caused damage as usual to young plantations in all Divisions. The damage by monkeys and wild animals appears to have been considerable in some of the plantations in Belgaum and N. D. Kanara Divisions. As attempts made in N. D. Kanara to destroy porcupines by offering rewards, gave no satisfactory results, these were not renewed. Plantations which were cultivated on agri-silviculture were protected from porcupine by the Kumriwalas up to the harvest. In other cases, whole stretches of the plantations were annihilated and the usual methods of stopping the attacks were of no avail.

(c) Insect Pest.

1. The defoliators made their annual appearance in North Thana, East Thana, and West Thana Sub-Division in Northern Circle, Kolaba in Central Circle and in Kanara N. D. Division in Southern Circle but the damage was not serious.

2. The damage caused by Ravlock cricket (*Crachytrypas achatimas*) to the young plantations and nurseries was very great in some Divisions and more than 50 per cent. of the plants were ripped in the bud. The method prescribed in the Forest Officer's book "Forest Insects" will, as advised by the Silviculturist, be followed in the coming season. Plants above 30" are fairly safe, but nurseries may need protection by insecticides and traps especially in March, April and September, when the insects are active.

(d) Frost and Erosion.

1. There was no damage from frost. The Casuarina reserved forests in the Western Division still continued to be seriously eroded by the sea though the question of sea-defence work is receiving careful attention.

CHAPTER III.

SILVICULTURE.

1. SYSTEM OF MANAGEMENT.

71. The various silvicultural systems are tabulated below :-

Silvicultural system.	Area in square miles.	Percentage of total area.
1. Clear felling	2,719	25.5
2. Improvement felling	430	4.0
3. Coppice with standards	1,222	11.5
4. Improvement-cum felling	412	3.9
5. Selection-cum Improvement	425	3.9
6. Selection	442	4.1
7. Uniform	331	3.1
8. Simple coppice	360	3.4
9. Others	1,188	11.1
Total under silvicultural system	7,529	7.5
Unorganised	3,151	29.5 0
Total	10,680	100.00

2. GENERAL PROGRESS OF REGENERATION AND AFFORESTATION.

72. The total area under natural regeneration was 103,780 acres of which 36,925 was under concentrated regeneration and 66,855 acres coppice as against 87,616 acres in the previous year.

(a) *Mainly natural.*

(i) *Concentrated.*

73. Natural reproduction in exploited areas of all Circles was supplemented by artificial regeneration by stump planting of teak (*Tectona grandis*) and by sowing seed of important junglewood species on rab beds and kiln sites. The species commonly sown were *babul* (*Acacia arabica*), *khair* (*Acacia catechu*), *matti* (*Ternstroemia tomentosa*), *tiwas* (*Ougeinia dalbergioides*), *hibbu* (*Pterocarpus marsupium*) and Sandalwood (*Santalum album*) was introduced in suitable localities. The early results were generally successful but fires later caused some damage and really effective fire protection must be carried out in future or much of this work will be wasted.

(ii) *Not concentrated.*

74. Natural regeneration from coppice and self-sown seed was relied on in the remaining areas of exploited coupes.

75. In the Southern Circle natural regeneration from coppice was satisfactory; from seed it was fairly good except in the Western Division, Kanara.

(b) *Mainly artificial.*

76. The areas artificially regenerated are as shown below :—

Circle.	Division.	Locality.	Area under artificial regeneration.	Species planted.
			A. g.	
Northern	... Panch Mahals ...	I, F. S. XLII—Coupes 2, 3, 13, 20 and old coupe 13.	259 36	
	North—Thana	Sanjan ...	10 0	Casuarina (<i>Casuarina equisetifolia</i>).
		Palghar ...	10 0	
Central	... East Khandesh	...	19 5	Babul (<i>Acacia arabica</i>)
	Poona	Main Working Circle ...	14 26	
	Kolaba	Casuarina W.C.—Coupe No. 1 ...	5 4	Teak (<i>Tectona grandis</i>) Casuarina.
Southern	... N. D. Kanara ...	Bhagwati High Forest W. P.	45 0	Teak (<i>Tectona grandis</i>)
		N. D. Kanara, Series 1 to VII High Forest W. P.	132 0	
		Gund Working Plan ...	52 0	
	E. D. Kanara ...	Revised Working Plan for Yellapur-Mundgod Teak High Forest.	70 0	
	W. D. Kanara ...	Ramanguli-Ankola High Forest Working Plan.	125 0	Teak (<i>Tectona grandis</i>)
		Arbail Slopes Working Plan.	10 0	
		Kalinadi Slopes Working Plan.	40 0	
	Belgaum	C. Nos. 67 and 68 of Bl. IV-A of revised Working Plan for the Teak Pole Fuel.	12 0	<i>Eucalyptus citridora</i> .
		Sandalwood of Nagargali and Khanapur Ranges.	3 0	Casuarina.
	Dharwar-Bijapur.	.....	19 0	Teak (<i>Tectona grandis</i>).
			38 0		Karimuttal (Ougenia dalbergioides), Anjan (Harlickia binata) and matti (Terminalia tomentosa).
		Bedami, Bagalkot, Hangul-Dhundshi.	47 0	Sandalwood (<i>Santalum album</i>) and Cassia.
		Teak and other Species	882 31	
		Casuarina	28 4	
		Grand Total	910 35	

(c) *Agri-Silviculture.*

77. In 114 acres of coupe No. 4 of I. F. S. XLII planting of babul (*Acacia arabis*) on Agri-Silvicultural system was tried in the Panch Mahals Division and success achieved compared very favourably with the plantations.

78. In the East Nasik Division 534 acres were regenerated by this system during the year with satisfactory results. The total area regenerated under this system aggregates to 9,592 acres.

79. In the Central Circle this method was tried almost in every Division, the areas regenerated being 5,998 acres as follows:—

Division.	Area. Acres.
East Khandesh	345
West Khandesh Sub-Division	803
Poona	333
Kolaba	4,056
Satara	401
	5,998

80. The total expenditure incurred in this connection amounted to Rs. 5,595.

81. In the Southern Circle 12 teak regeneration areas of Kanara Western Division aggregating 251 acres were taken up for planting under this method.

82. The total area given out under this system was 6,897 acres.

(d) *Afforestation.*

83. No extension was carried out during the year in connection with the work commenced in 1939 under "Gradoni" system in the Northern and Central Circles. The expenditure on maintaining these initial areas in the Central Circle was Rs. 154. Grass from the Nagaon-bari arid area was sold for Rs. 80 on cutting terms and that from the Chimangaon for Rs. 20. In the Poona Division grass from Khed and Kharpudi areas was given free to the villagers.

84. In the Southern Circle Hire-Hodlur Nos. 41, 42, 50 and 51 in Bagalkot Range were to be afforested with *Prosopis juliflora* but as the seed was not received 13,778 acres in all were dibbled with *Nerium* (*Melia azadirachta*), *Sissam* (*Dalbergia latifolia*), *tugli* (*Albizia umarua*), etc. at a cost of Rs. 243. Regeneration was however successful owing to scanty rain.

3. TREE PLANTING IN FOREST AREAS.

85. There was no demand for land for planting fruit trees in forest in the Northern and Central Circles. In the Southern Circle 30 acres were granted to 23 persons at Karwar, Ankola, Kumta and Bhatkal Ranges, for growing fruit trees.

86. The 4 plots already given out in Sirsi-Siddapur Range have now been taken up into useful gardens. Fruit trees such as jack (*Artocarpus integrifolia*), Chikoo (*Cassia sapota*), papaya (*Carica papaya*), mango (*Mangifera indica*), etc. planted in these gardens are thriving well.

4. HELP RENDERED BY FOREST DEPARTMENT TO ASSOCIATIONS, AGRICULTURIST AND OTHERS IN TREE PLANTING.

87. This Department is always ready to help villagers in planting trees.

88. Generally speaking little has been done except to give advise. In a few places where the public showed enthusiasm free seed and seedlings were distributed but owing to high prices for timber, etc., the tendency has been to dispose of existing tree growth rather than plant more trees. The Eucalyptus nursery at Yekkambi in Sirsi-Siddapur Range in the Southern Circle has been abandoned as there was no demand for seedlings.

5. TENDING OF GROWING STOCK.

89. The usual cultural operations such as mulching, weeding, cleaning, creeper cutting were carried out partly by forest subordinates but mostly by paid labour and as labour was scarce operations were on a rather meagre scale.

90. In some Divisions thinning had to be restricted to coupes that could be sold ; many unsold coupes having to be neglected because of labour shortage. Departmental thinnings were however carried out wherever possible but there is still much to be done before the cleaning and thinning programme will be up-to-date

91. The cost of departmental works amounts to Rs. 45,755 while the revenue received from the sale of standing trees and of the resultant material from departmental operations amounted to Rs. 1,22,393. Some of the material of departmental operations remained unsold. The revenue realised from the last year's unsold material was Rs. 4,492.

92. The Conservator of Forests, Southern Circle, writes :--

"Reference has been made to the damage done in the teak plantations by the *dowga* (*Bambusa arundinacea*) bamboo. There has also been considerable damage by climbers and suppression by *Medar* (*Dendrocalamus strictus*). It remains to be seen how the plantations will respond to thorough cleanings.

Inspection of the older plantations shows that in many areas there is early crown formation and consequently checking of height growth. This is due in some cases, but not in all, to forking at an early age, caused by defoliation, by climber damage and by scorching of the stem which checks the flow of sap in the hot weather, when it should be rising. Seed origin also has a great deal to do with the formation of the tree.

It is now necessary to make a very close survey of all teak plantations, taking accurate girth and height measurements and recording the crown development. The data, recorded graphically, should be studied along with the history of each plantation and with the evidence of soil analysis.

From observations there is no doubt that fire protection produces natural regeneration of teak and it is likely that such teak, growing in its natural mixture, will be free from the ills that attack plantation teak. It is time therefore to commence large-scale experiments with natural regeneration combined with artificial regeneration in standing forest, as is already practised in P. B. I of the Yellapur-Mundgod Teak High Forest Working Plan. All the more so as we have to be ready to take advantage of the flowering of the *dowga* bamboo, which may occur in 10 to 15 years.

The work envisaged will require a large expansion of the Silvicultural branch and a reduction in the size of units, from beats to Circles, as has already been proposed."

CHAPTER IV.

EXPLOITATION.

(1) SYSTEMS OF MANAGEMENT.

93. The various systems of management and the areas under each are given in Chapter III under the caption "System of Management".

(i) MAJOR FOREST PRODUCE.

Timber, fuel and sandalwood.

94. Major produce was exploited mainly through the agency of purchasers by the sale of standing coupes in the Northern and Central Circles. Some Departmental operations were, however, undertaken in both these Circles for (a) supply of timber to the Defence Department, (b) firewood for Military and Civil Supplies, (c) logs of sawar (*Bombax malabaricum*) and of other matchwood species, (d) manufacture of charcoal for civil supply.

95. Silvicultural operations such as thinnings and cleanings and "Wat-pad" operations in *babul* coupes of the Poona Division were carried out departmentally.

96. In the Southern Circle timber from High Forest and certain other areas was brought to depots either departmentally or through contractors for supply to the Defence Department and for sale to the public. Some pole coupes were sold standing on the condition that firewood from junglewood trees was delivered at roadside depots; other pole and some of the fuel coupes were worked departmentally for firewood for civil and Military Supply (teak in these Pole coupes was reserved). Trade quality charcoal was manufactured for Civil supply and Producer gas quality charcoal for the departmental gas plants. Sandalwood was, as usual, extracted departmentally and brought to depots for sale after conversion.

97. Most of the silvicultural operations such as thinnings were carried out departmentally.

98. Soon after hostilities ceased the Supply Department closed down most of its orders, but production of logs of high quality, both of teak and junglewood, for the anticipated demands of the Public Works Department and of essential services continued.

99. The maximum possible quantity of sleepers of the "A" species--*Matti* (*Terminalia tomentosa*)--was produced; the lower grade sleeper production was reduced to a minimum and logging contracts of the inferior species were also curtailed.

100. Half way through the season it became evident that Civil requirements of firewood had been overestimated but it was then too late to reduce production appreciably as felling had been completed and only extraction remained to be done.

(ii) *Minor Forest Produce.*

101. Minor Forest Produce was as usual, either farmed out or sold on permits.

102. *Hirda* fruit (*Terminalia chebula*) was collected departmentally in the Rajur Range of the West Nasik Division on the "Quota" system according to Government orders. Government have since decided that the right to collect *hirda* in Government forests in this Range should be sold to village Panchayat at such a price that Government gets no more than a thousand rupees for the sale of *hirda* collection in the whole of Rajur Range.

103. Sixteen new kurans were formed in Poona Division during the year and sold on grass cutting terms.

104. The areas leased out to the Military Farms Department were 8,062 acres and 25½ gunthas in the Poona Division and 14,264 acres and 24 gunthas in the West Khandesh Sub-Division.

105. Grass and grazing realised Rs. 3,73,185 as against Rs. 3,42,210 in the previous year.

106. The sale of ghatbor (*Zizyphus xylopyra*) fruit and *tarwad* (*Cassia auriculata*) bark in the Khandesh Divisions was held on condition that the contractors would sell the produce to the chambhars (shoemakers) at fixed rates.

107. Free distribution of *tali* palm (*Corypha umbraculifera*) to deserving people in certain coastal talukas of Kanara was continued.

108. Cane was allowed free for domestic use and for cottage industries—sale on permits being principally for export.

109. The operations of the South Indian Shellac Company in Siddapur taluka made little headway, though some trees were inoculated with brood lac.

2. AGENCY OF EXPLOITATION.

(i) Departmental Agency.

110. The following is a comparative statement of major and minor forest produce extracted departmentally during the year 1945-46 and 1944-45 :—

Circle.	Year.	Major forest produce.				Minor forest produce.				Remarks.
		Timber Cubic feet in thou- sands.	Fuel in cubic feet in thou- sands.	Total cubic- feet in thou- sands.	Sandal wood value.	Bamboos value.	Grass and grazing value.	Other produce value.	Total value.	
					Rs.	Rs.	Rs.	Rs.	Rs.	
Northern..	1945-46	438	1,376	1,815	727	*211	39,909	25,516	65,636	*Rs. 205 were realised for Bamboos of the last year and has strongly been included under the head lte.
	1944-45	556	2,046	3,502	..	197	83,742	662	84,601	
Central ..	1945-46	304	1,405	1,709	1,987	..	..	59	..	
	1944-45	337	1,050	1,387	528	2	..	5,917	5,919	(a) Estimated value of material extracted and not the sale proceeds of the material sold the during year.
Southern..	1945-46	3,912	13,563	17,475	3,30,566.00	242	..	33	275	
	1944-45	3,907	5,504	9,411	2,10,508.00	1,751	..	22	1,773	
Total Bom- bay Provi- nce	1945-46	4,655	16,404	21,059	3,32,230	453	39,909	25,608	65,970	
	1944-45	1,800	9,500	11,300	2,11,031	1,950	83,742	6,601	92,293	
Difference ..		-145	-6,964	-6,759	-1,21,209	-1,497	-43,833	-10,007	-26,323	
Percentage of departmental to total output.		43.8	27.6	59.00	100.0					

111. The decrease under timber occurs in all the Circles except in the Southern Circle.

112. The increase under fuel is due to departmental extraction of firewood on a large scale in the Southern Circle for civil and Military supply.

113. The increase under Sandalwood is due to more scented wood of high quality being available for sale and a general rise in price.

114. There is a general fall in the revenue from bamboos as there was no demand from the Military.

(a) *Timber Depots.*

115. Annual auction sales were held at all the timber depots in the Southern Circle. The average prices realised at Dandeli, the principal timber depot in the Circle, compare with those of 1943-44 as under (There were no sales in the depot during 1944-45). Only logs and sawn wood of teak were sold.

Kind of timber.	Average rate per whandy of 12' 60 C. ft.	
	1945-46.	1943-44.
	Rs. a. p.	Rs. a. p.
Teak (<i>Tectona grandis</i>) logs	190 1 2	127 0 6
Teak battens	142 5 8	108 11 3
Teak scantlings	133 4 2	101 10 3
Teak planks	205 11 4	128 8 7
Teak M. G. Handsawn sleepers rejected	<i>each</i> 7 2 5	<i>each</i> 8 4 4

116. Only a limited quantity of 980 tons was put up because of lack of wagons to move the material. In consequence Bombay buyers urgently requiring wood made, what in normal times would have been considerable, fantastic bids.

117. Sales in other Divisions were mainly of rejected materials, i.e., not fit for the Supply Department.

118. Junglegrounds were absorbed in the local markets at not unreasonable rates; if transport could have been assured to such centres as Kollhapur and Shelapur, however, there is no doubt, increased competition would have forced up prices.

(b) *Fuel Depots*

119. Fuel Depots at Mahabaleshwar, Panchgani, Chinchani and Mahim were maintained as usual through contractors. Fuel Depots at Dabam, Umbergaon, Ghelwad and Saphala had to be closed as the coupes from which they were to be fed were unsold.

120. The firewood depot at Matheran was run departmentally as usual. In all 11,004 maunds of firewood were sold for Rs. 22,266 the expenditure including cost of establishment being Rs. 17,102

121. Some Firewood depots in Kanara Western Division continued to be subsidised. For the running of the depots during 1946-47 subsidies to the extent of Rs. 8,255 were given in the case of two depots (Kumta and Honavar) and an equal amount was recovered as surcharge from the contractors of the remaining 3 depots (Karwar, Gokarn, Gangawali and Bhatkal) by raising the selling rate by 1 anna per maund. This arrangement has made the coastal depots self supporting.

122. Gokak and Castle Rock depots in the Belgaum Division were worked departmentally at a small profit. Various departmental rail and road-side depots were opened for the stacking of firewood and charcoal extracted for civil and military supply and wholesale ceiling rates were fixed by the Director of Civil Supplies (Firewood and Charcoal), Bombay.

123. The Bombay Firewood and Charcoal Trade Licensing Orders, 1944 remained in force during the year.

(ii). PURCHASERS.

124. The following table compares the outturn of major and minor forest produce removed by the consumers and purchasers during the years 1945-46 and 1944-45 :—

Circle	Year	Major Forest Produce				Minor Forest Produce			Total value
		Timber		Fuel		Bamboos value	Grass and grazing value	Other produce value	
		Cubic feet in thousands	Value	Cubic feet in thousands	Value				
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
Northern	1945-46 ..	3,402	67,19,946	11,177	88,017	53,339	71,14,680	45,958	2,19,027
	1944-45 ..	4,266	65,12,448	18,082	69,707	55,491	99,367	1,29,186	2,84,044
Central	1945-46 ..	1,531	20,26,388	8,784	2,86,456	21,483	2,18,702	99,600	3,39,799
	1944-45 ..	1,985	14,51,037	7,160	2,51,635	28,186	1,53,602	1,39,472	3,26,620
Southern	1945-46 ..	863	1,70,594	2,743	2,86,987	1,29,304	835	74,226	2,04,465
	1944-45 ..	630	2,95,357	2,353	2,91,582	1,12,458	438	67,145	1,80,041
Total	1945-46 ..	5,801	89,25,928	22,704	6,41,460	2,09,181	3,34,217	2,19,864	7,63,282
	1944-45 ..	6,881	82,58,842	28,104	6,12,924	1,96,435	2,58,467	3,35,803	7,90,705
Difference between 1945-46 and 1944-45.		-1,080	-6,67,986	-5,400	+28,536	+12,746	+75,750	-1,16,919	-27,423

125. The decrease in the volume of timber and firewood is due chiefly to a smaller number of coupes having been sold in the Northern Circle. The increase in the value is due to higher prices.

126. The increase under bamboos is due to better demand in Northern and Southern Circles.

127. The increase in the receipts under "grass and grazing" is due to better rates because demand exceeded supply.

128. The decrease in the revenue under other produce is due partly to the fact that the revenue from the sale of *temru* (*Diospyros melanoxylon*) leaves in the Panch Mahals Division, normally due in 1945-46 was recovered and credited during the previous year and partly to low prices obtained from certain farms in Central Circle.

(iii). RIGHTS, PRIVILEGES AND FREE GRANTS.

129. The following is a comparative statement of the quantity and value of forests produce removed by right and privilege holders and free grantees during the years 1945-46 and 1944-45:—

Circle	C=Concessionists F=Free grantees	Major Forest Produce				Minor Forest Produce				
		Timber		Fuel		Bamboos value	Grass and grazing value	Other produce value	Total value	
		Quantity in Cft. in thous ands	Value Rs.	Quantity in Cft. in thous ands	Value Rs.					Rs.
Northern	C	..	..	11,022	2,21,188	75,591	11,16,472	1,02,799	12,94,862	
	F	..	12	6,385	..	669	..	1,991	2,660	
Central	C	..	..	3,499	1,03,767	..	7,77,990	91,881	8,69,871	
	F	..	5	3,182	7	384	54	45	6,823	6,919
Southern	C	..	122	25,750	5,816	66,125	3,966	5,55,214	13,798	6,02,983
	F	..	27	11,661	..	..	362	..	466	825
Total for 1945-46	C	..	122	25,750	20,367	3,91,080	79,557	24,70,681	2,08,478	27,67,716
	F	..	44	21,228	7	384	1,085	45	9,277	10,407
Total for 1944-45	C	..	56	12,710	21,916	4,22,542	78,066	22,09,195	2,35,053	25,23,224
	F	..	46	22,307	4	168	1,563	20	5,993	7,576

130. Compared with the last year the concessionists record an increase under all heads except under "fuel" and "other produce".

131. Free grants of timber and other produce were made in all deserving case for reconstruction of houses damaged by fire or floods and for repairs to buildings, schools, gymnasium halls, temples, mosques, etc.

132. A free grant of 200 khandies of reserved class timber worth Rs. 1,200 was granted for the construction of a hospital at Honavar.

(iv). **OUTTURN AND SOURCES OF FOREST PRODUCE.**

133. The following table compares the outturn from all sources of forest produce during the years 1945-46 and 1944-45 :—

Circle	Year	Major Forest Produce			Minor Forest Produce		
		Timber Cft. in thousands	Fuel Cft. in thousands	Scandal wood value Rs.	Bamboos value Rs.	Grass and grazing value Rs.	Other produce value Rs.
Northern	1945-46 ..	3,853	23,575	727	1,34,860	12,71,061	1,76,264
	1944-45 ..	4,837	32,050	..	1,31,406	12,99,581	2,35,339
Central	1945-46 ..	1,840	13,755	1,037	21,542	9,06,737	1,98,360
	1944-45 ..	2,334	12,995	523	29,643	8,30,840	2,65,121
Southern	1945-46 ..	4,929	22,152	3,30,566	1,33,374	5,86,054	88,623
	1944-45 ..	4,612	14,479	2,10,508	1,17,885	4,20,993	82,990
Total	1945-46 ..	10,622	50,462	3,32,330	2,90,276	28,53,852	4,63,247
	1944-45 ..	11,783	59,524	2,11,031	2,78,034	25,51,414	5,83,450
Difference between 1945-46 and 1944-45 ..		-1,161	-42	+1,21,299	+11,312	+3,02,438	-1,20,203

3. FOREST LABOUR AND WAGES.

134. The annual forest operations such as exploitation of forests construction of buildings, roads, etc., provide employment for a considerable number of people. The following table gives an estimate of the labour employed on forest works and remuneration paid to them during the year. For comparison rates for 1938-39 are also given :—

Circle	Agency of employment	Number of labour units	Aggregate amount earned	Remarks
Northern	Departmental ..	446,277	3,29,227	
	Contractors ..	3,954,687	30,33,897	
Central	Departmental ..	103,760	1,03,390	
	Contractors ..	2,964,742	25,42,899	
Southern	Departmental ..	364,111	3,94,572	
	Contractors ..	1,859,847	25,10,078	
Total for 1945-46	Departmental ..	914,148	8,32,659	An average of annas 14 5 a unit.
	Other i.e., Contractors ..	8,779,276	80,86,874	An average of annas 14 7 a unit.
Total for 1938-39	Departmental ..	629,002	2,37,636	An average of annas 6 04 a unit.
	Contractors ..	7,649,659	27,69,546	An average of annas 5 8 a unit.

135. The condition regarding the payment of minimum wages by forest contractors to their labourers continued to be in force in the three Thana, Kolaba and West Khandesh Divisions and Peint Mahal of the Nasik District. The rates of minimum wages were increased in proportion to the rise in the cost of living.

136. The special officer for the protection of aboriginal and hill tribes in the Thana, Kolaba and Nasik district reported to the Divisional Forest Officers concerned all cases of infringement of the wage conditions and these together with those reported by the subordinates of the department were properly dealt with.

137. Minimum wages have been fixed for each locality in the Southern Circle. Owing to the abnormal rise in the cost of living, wages had to be increased considerably both for departmental and contractors' labour, departmental labour being paid dearness allowance in certain cases. Labour had to be imported from Goa territory to supplement the local labour.

CHAPTER V.

FOREST ENGINEERING BRANCH.

(1) Survey.

138. The Engineering Branch of this department received many calls for plans and estimates for roads, culverts, bridges, buildings, rest houses, wells, etc., but owing to the inadequacy of the engineering staff, only works of the most urgent nature could be dealt with. Amongst these were: reconstruction of dilapidated culverts on Bawlazera-Shiroli road in Northern Division, Kanara; estimates for cement concreting the depot roads at Dandeli, revised estimates for resurfacing the Dandeli depot roads; revised estimate for a new bungalow and plans and estimate for a school building at Dandeli; sinking of 2 draw wells one at Barchi in Northern Division, Kanara and the other at Arbal; estimates for quarters for subordinates in Northern Division, Eastern Division and Western Division, Kanara and Belgaum Divisions, etc.

2. MECHANICAL SKIDDING.

139. The report covers as usual the period of working season from December 1945 to 31st May 1946.

140. Timber extraction work was carried out departmentally in series XIA compartments 19, 20 and 21 of Northern Division, Kanara from 11th December 1945 to 20th March 1946. Two outfits were engaged up to 31st January 1946 and a third one thereafter up to 20th March 1946.

141. The total output was 1,759·14 tons against 2,053·15 in the previous year. The average cost of extraction including all charges works out to Rs. 18·12 with an average length of haul of 1,500 feet against Rs. 15·5·0 with an average length of haul of 1,612 feet in the previous year. The increase is due to payment of wage and dearness allowance to the skidding crew at the enhanced rates.

142. On completion of the departmental works the tractors were loaned to forest contractors.

3. SAWMILLS.

143. The following table compares the output for 1945-46 and 1944-45 of the Government sawmills at Dandeli in Kanara, Northern Division, Kirwatti in Kanara Eastern Division and Londa in Belgaum Division. The total output of the Dandel mills was 2,29,595 Cft. against 1,70,170 Cft. in the previous year and that of Kirwatti and Londa mills was 31,411 Cft. and 72,241 Cft. against 37,367 Cft. and 58,309 Cft. respectively in the previous year.

Description of outturn.	Year.	Robey Mill Cft.	Fowler Mill Cft.	Foden Mill Cft.	Lancashire Mill Cft.	Kirwatti Mill Cft.	Londa Mill Cft.	Total.
1	2	3	4	5	6	7	8	9
Teak M. G. sleepers	1945-46	23,295	--	--	9,867	14,722	--	47,884
Teak sawn material	.. Do.	76,335	..	..	1,15,519	19,639	--	2,11,543
Junglewood material	.. Do.	155	..	..	4,424	--	72,241	76,820
Total for	1945-46	99,785	--	..	1,29,810	34,411	72,241	3,36,247
Teak M. G. sleepers	.. 1944-45	621	168	132	421	22,806	..	24,138
Teak sawn material	.. Do.	41,266	36,831	10,111	80,784	14,561	..	1,83,543
Junglewood material	.. Do.	15	123	..	18	..	58,309	58,455
Total for	1944-45	41,892	37,112	10,243	81,233	37,367	58,309	2,66,146
Difference between 1945-46 and 1944-45		+20,781	--	-10,243	+48,587	-2,956	+13,932	+70,101

144. Robey and Fowler units were combined into one during the year.

145. The Foden mill which operated one 42" sawing unit was closed down with effect from 2nd week of January 1945 as the engine required heavy repairs, the requisite parts being unavailable.

146. The increase in the outturn of the Dandeli and Londa mills is mainly due to cessation of orders for lorry body sizes and the sawing instead of mainly stock market sizes. The increase in the outturn of the Dandeli mills is due to installation of modern bandmilling machinery at Dandeli. The lower outturn of the Kirwatti mill is attributed to the inferior quality of the raw materials. This mill will close down as soon as the present and expected stock of raw material is used up.

147. The financial results of the Dandeli mills are compared below :—

Item.	Dandeli mills.		
	1945-46.	1944-45.	Difference.
	Rs.	Rs.	Rs.
Revenue	12,65,713	10,85,643	+1,80,070
Expenditure	10,16,764	9,01,888	+1,14,876
Net profit	2,48,949	1,83,755	+65,194
Capital at charge	10,07,218	4,30,010	+5,77,206
Percentage of net profit on capital	24.7	42.7	

148. The increase in profits during the year is mainly due to large quantity of sawn wood produced by the mills and to better prices realised in the sale of material.

148-A. The financial results of the Londa and Kirwatti mills are compared below :—

Item.	Londa Mill.			Kirwatti Mill.		
	1945-46.	1944-45.	Difference.	1945-46.	1944-45.	Difference.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue	2,42,872	2,21,918	+20,954	2,14,969	1,76,655	+38,314
Expenditure	2,57,377	2,29,854	+27,523	1,49,416	1,55,301	—5,885
Net profit (+) or net loss (—) ..	—14,505	—7,936	—6,569	65,553	21,354	+44,199
Capital at charge	1,09,013	13,888	95,125	46,234	52,605	—6,371
Percentage of net profit (+) or net loss (—) on capital.	—13·3	—57·14	+43·84	141·79	40·59	+101·20

The increase in loss in the Londa mill is due mainly to the increase in pay and dearness allowance of the establishment. The profits of the Kirwatti mill shows an increase which is due to the value of sawn material for 1945-46 being based on market rates while the material of 1944-45 was supplied to the Supply Department at Scheduled rates which are less than this market price.

4. DEAD STOCK AND STORES.

149. The deadstock and consumable stores valued at Rs. 223 and Rs. 37,502 were supplied by the Forest Engineer to six mills in the Southern Circle as against Rs. 2,620 and Rs. 38,398 in the previous year.

5. PRIVATE SAWMILLS IN THE SOUTHERN CIRCLE.

150. Out of the 12 sawmills including Mrs. Jankibai Sawant's mill at Vincholi working in the Southern Circle only six are now working for the Department (the one at Belgaum works on indents for the Department when required). Most of these mills have been kept running in anticipation of our receiving Public Works Department indents but so far only small orders have been received.

151. The outturn of these private mills was 2,39,506 Cft. and the revenue realised from sale of the material was Rs. 9,45,926. The expenditure, including the value of raw material and including payments made to the owners for handling and sawing amounted to Rs. 6,65,411 resulting in a net profit of Rs. 2,80,515 to Government.

6. SEASONING KILN AT DANDELL.

152. This establishment was transferred from the Engineering Branch to the control of the Divisional Forest Officer, Kanara Northern Division, the Engineering branch being, as in the case of the mills, responsible for the maintenance of machinery and supply of consumable stores only.

153. The kiln supplied about 25 Cft. of picker arms to the Textile firms in Bombay. At the end of the year orders for the supply of about 2,100 Cft. were received and it is expected that the kiln will be kept operating continuously during 1946-47. The question of expanding the installation is under consideration.

154. Shortly after the close of the year the Divisional Forest Officer, Kanara Northern Division (Mr. G. S. Singh), was sent to Dehra Dun to study closely the seasoning methods and practice at Dehra Dun. The Kiln Ranger was also sent at the same time for a refresher course of ten days.

7. GENERAL.

155. *Circular Saw Benches and Saws.*—The 12 wooden saw benches manufactured locally according to the design of the Forest Engineer and erected at the Robey Mill (Dandeli), Londa and Kirwatti, were efficiently maintained during the year. Quarterly indents for the supply of circular and band saw blades were submitted to the Utilization Conservator of Forests, Province of Bombay, as usual though the actual supply was much below our requirements. A number of crippled saws were reconditioned by the Saw Doctor Mr. Pereira, which enable the units to continue in operation.

156. *Improvement to the War Supply at Dandeli.*—The installation of a larger Steam Engine at Dandeli and a gradual increase in the population has necessitated a Scheme for the improvement of the Water Supply. The Forest Engineer drew up five different schemes and discussed them with the Conservator of Forests, Southern Circle, the Garrison Engineer, the Public Health Engineer to Government, etc. The scheme finally selected provides new Settling Tank, Filters, Pure Water Reservoir, Chlorinating apparatus etc. The plan and estimates the latter amounting to Rs. 69,019 have been prepared for submission to Government.

CHAPTER VI.

FINANCIAL RESULTS.

157. The revenue and expenditure of the year compared with those of the previous year and the past quinquennium 1940-41 to 1944-45 are as follows :—

Circle.	Year.	Revenue.	Expenditure			Surplus or deficit	Percentage of surplus to revenue.
			Conservancy and works.	Establishment.	Total.		
		Rs.	Rs.	Rs.	Rs.	Rs.	
Northern	1945-46	87,42,446	15,92,767	10,00,247	25,93,014	61,49,432	70.3
	1944-45	1,47,25,617	67,63,370	8,63,887	76,32,257	70,93,560	48.2
	Average	67,13,014	23,18,626	7,39,419	30,58,045	36,59,969	54.5
Central	1945-46	45,63,836	11,26,779	8,12,865	19,39,644	26,24,192	56.9
	1944-45	73,71,716	38,36,730	7,31,357	45,68,087	28,03,629	38.0
	Average	28,26,001	13,36,752	6,00,161	19,36,916	8,59,085	31.4

Expenditure.

Office.	Year.	Revenue.	Expenditure.			Surplus or deficit	Percentage of surplus to revenue.
			Conservancy and works.	Establishment.	Total		
		Rs.	Rs.	Rs.	Rs.	Rs.	
Southern	1945-46	1,11,86,368(a)	79,18,787(a)	8,70,332	87,89,119	23,97,249	21.4
	1944-45	92,80,804	60,70,970	7,72,493	68,43,463	24,37,341	26.3
	Average	55,27,180	27,84,209	6,62,354	34,46,563	20,80,617	37.6
Utilization	1945-46	289	743	1,03,017	1,03,760	-1,03,471	....
	1944-45	837	1,024	84,158	85,182	-84,345	....
	Average	3,688	811	49,889	50,710	-47,022	....
General Direction	1945-46	1,928	33,521	2,02,425	2,35,946	-2,34,018	....
	1944-45	603	33,541	1,60,479	1,94,020	-1,93,417	....
	Average	6,889	33,733	1,59,378	1,93,161	-1,86,472	....
Forest Engineering Division.	1945-46	4,689	1,78,716	78,777	2,57,493	-2,52,804	....
	1944-45	1,148	88,275	70,955	1,59,230	-1,58,082	....
	Average	3,440	75,534	47,897	1,23,431	-1,20,991	....
Silviculturist	1945-46	329	7,153	36,135	43,288	-42,959	....
	1944-45	257	4,165	30,279	34,444	-34,187	....
	Average	148	2,387	27,453	29,840	-29,692	....
Additional Director of Civil Supplies	1945-46	....	....	1,899	1,899	-1,899	....
Total	1945-46	2,44,99,885	1,08,58,466	31,05,697	1,39,64,163	1,05,35,722	43.0
	1944-45	3,18,80,982	1,67,98,075	27,18,608	1,95,16,683	1,18,64,299	37.8
	Average	1,50,84,160	65,52,102	22,86,564	88,38,666	62,45,494	41.3
Difference between 1945-46 and 1944-45		-68,81,097	-59,39,609	+3,87,089	-55,52,520	-13,28,577	....

(a) Includes Rs. 19,846 under revenue on account of transfer of deposit from the Special Development Fund and Rs. 19,846 expenditure debited to D-Special Development Programme.

158. Compared with the figures of the last year the revenue, expenditure, and surplus decreased by Rs. 68·81, Rs. 55·52 and Rs. 13·29 lakhs of rupees respectively.

159. The reduction in revenue was mainly because fewer coupes were sold in the Northern and Central Circles.

160. The decrease in expenditure under 'B—Conservancy and Works' is attributed to stoppage of the pre-emption of timber and charcoal in the Northern and Central Circles.

161. The increase in expenditure under "C—Establishment" which occurs in all the Circles is due partly to the grant of war allowance and dearness allowance to officers and subordinate staff at enhanced rates.

162. The analysis of receipts and expenditure shows that of the receipts 92·2 per cent. came from major produce, 3·3 per cent. from minor produce and 4·5 per cent. from miscellaneous sources. Of the expenditure 77·8 per cent. was incurred on extension, constitution, improvement and exploitation and 22·2 per cent. on administrative, executive and protective charges.

163. The outstandings on account of revenue at the commencement and close of the year were—

Circle.	On 1st April 1945.		On 31st March 1946.	
		Rs.		Rs.
Northern	...	3,49,824	...	5,72,623
Central	...	2,52,230	...	2,04,401
Southern	...	3,61,349	...	8,20,905
Total	...	9,63,403	...	15,97,929

CHAPTER VII.

ADMINISTRATION.

164. The post of Chief Conservator was held by Mr. J. B. T. Brooks, C.I.E. from 1st April 1945 to 10th April 1945 and by Mr. W. C. de C. Walsh from 11th April 1945 onwards.

165. The Circle charges were held by the following officers :—

Circle.	Name of Officer.	From	To
Northern	Mr. J. Petty, O.B.E., M.C.	1st April 1945	11th April 1945.
	Mr. E. T. C. Vas	12th April 1945	30th October 1945.
	Mr. E. S. B. Tavener	31st October 1945...	31st March 1946.
Central	Mr. R. F. Sandeman	1st April 1945	31st March 1946.
Southern	Mr. R. J. Smith, M.B.E.	1st April 1945	3rd May 1945.
	Mr. R. J. Smith, M.B.E.	4th June 1945	26th July 1945.
	Mr. G. S. Singh	4th May 1945	3rd June 1945.
	Mr. J. Walker	27th July 1945	31st March 1946.
Utilization	Mr. W. C. de C. Walsh	1st April 1945	12th April 1945.
	Mr. J. Petty, O.B.E., M.C.	13th April 1945	28th July 1945.
	Mr. R. J. Smith, M.B.E.	29th July 1945	31st March 1946.
Planning	Mr. J. Petty, O.B.E., M.C.	29th July 1945	31st March 1946.

166. A temporary post of Special Conservator (Planning) was created by Government for the purpose of making recommendations in respect of post war schemes, the control of private forests and the organisation of village forests and Mr. J. Petty, O.B.E., M.C., was appointed to hold it from 29th July 1945

167. Another temporary post of Conservator of Forests (Development) on the Provincial Service scale was created and Mr. T. K. Mirchandani was selected to hold it from 21st November 1945 (Mr. Mirchandani has since been deputed for a period of 4 months to study the latest developments in saw mill and wood working industries, etc., in U. S. A. and Canada).

168. Mr. N. S. Kaikini was sent on deputation to the United Kingdom for a course of advanced training in Forestry at the Imperial Forestry Institute, Oxford, for the class commencing from January 1946. The period of his deputation is for about 10 months.

169. During the year Mr. P. A. Wasavada was selected for training in Forestry at the Edinburgh University with a view to his eventual appointment in Bombay Forest Service, Class II. Two other candidates Messrs. K. P. Karamchandani and B. S. Bathena were selected for the 1946-48 Superior Forest Service Course at Dehra Dun.

170. Messrs. S. M. Wagle, S. H. Korlhalli and S. P. Jadhav were selected for training in the 2nd year course (1947) and Mr. G. R. Mavinkurve was selected for training in the two years Course (1946-48) in the Superior Forest Service Course at the Indian Forest College, Dehra Dun, and for eventual appointment in the Bombay Forest Service, Class II.

171. Messrs. F. A. B. Coelho, R. D. Joshi and D. R. Bharucha were deputed for a short course in partial enumeration held at Dehra Dun in March 1946.

SUBORDINATE AND CLERICAL SERVICE.

Training of Rangers.

172. The 4 students sent to the Rangers' Course for 1944-46 at Dehra Dun completed their training, 3 of them passed with higher standard certificate and one with lower standard.

173. Seven students were selected during the year for the 1946-48 course. They completed their practical training and joined the College at Dehra Dun in April 1946.

Training of Foresters.

174. The Forest Class at Mandvi was held as usual for a continuous period of 6 months. Of the 25 students (10 from Central Circle, 11 from Northern Circle and 4 from Indian States) one Indian State student was sent back as he was unable to follow the lectures, 23 passed and one failed in the final examination.

175. The Foresters Training Class at Haliyal in the Southern Circle, was as usual conducted by the Range Forest Officer, Haliyal, in addition to his own duties. All the 7 students selected for training passed the final examination.

176. Mr. S. S. Haldipur, Ranger, was deputed for a short course in enumeration held at Dehra Dun.

177. Three Rangers, 8 Foresters and 3 Forest Guards were deputed for training in the Bunding Class at Bijapur.

178. As a large number of surveyors were required under the Forest Department Post-war Reconstruction Scheme, a Surveyor's Training Class was opened in the Southern Circle. The Class started on 5th January 1946 with 11 students and was conducted for 3 months by Mr. M. S. Telang, Ranger Surveyor. All the students passed in the final examination.

179. With the sanction of Government a class for training Forest Guard was opened at Haliyal and 30 demobilised soldiers were to be trained; unfortunately only 13 suitable candidates could be found.

180. The staff, both protective and clerical, has again put in a very hard year's work in difficult circumstances.

181. The following table gives the casualties and punishments during the year :—

Description.	Northern Circle.	Central Circle.	Southern Circle.	Total 1945-46.	Total 1944-45.
Retirements ...	29	20	24	73	59
Deaths ...	8	17	14	39	37
Resignations ...	19	8	8	35	36
Degradations ...	12	9	4	25	24
Dismissals, removals...	12	5	1	18	15
Prosecutions ...	.....	2	.....	2	1
Total ...	80	61	51	192	172

182. The health of the staff was fair except in places which are notorious for their bad climate. Attacks of malaria were frequent amongst the staff connected with the working Plans Division who had to live in tents and shelters, during the working season and this hampered the progress of work a good deal.

Measures to suppress corruption.

183. All applications against forest subordinates were promptly enquired into and the subordinates found guilty were suitably dealt with. The usual control over expenditure and piece work rates was exercised by the Divisional Forest Officers and their Assistants. There were 2 cases of defalcation of Government money in connection with charcoal manufacture in the Central Circle in which one Ranger and one Forester were involved. They are now being prosecuted in the Court of Resident Magistrate, Karad.

Inspections and Tours.

184. The Inspector General of Forests to the Government of India, New Delhi, and Central Silviculturist visited the Khed Arid Area in the Poona Division and Land Improvement works in the Satara Division of the Central Circle.

185. The Principal, the Wood Technologist, the Utilization Officer and Assistant to the Central Silviculturist, and Botanist of the Forest Research Institute, Dehra Dun, visited the Southern Circle.

186. The Chief Conservator, Special Conservator (Planning), Utilization Conservator and the Silviculturist, Bombay Province, toured in all the Circles. The Chief Conservator while on tour inspected the offices of the Conservators of Forests, Northern, Central and Southern Circles.

187. The Conservators of Forests in the course of their tours inspected all the Divisional Offices in their charges (except Belgaum and the Working Plans, Southern Circle). No serious irregularities were noticed.

188. Some of the Divisional Offices were inspected by the Audit staff of the Accountant General, Bombay.

Land Revenue Administration.

189. The Divisional Forest Officer, West Nasik, continued to function as Assistant Collector and Excise Superintendent of Peint Mahal. The Revenue Administration of the unsurveyed villages and the Excise Administration of the Akrani Mahal remained in the hands of the Forest Department.

Forest Village Panchayats.

190. The four Panchayats in Kanara Northern Division and the 13 in Kanara Western Division continued to function as usual though some of them are reported to exist in name only. No plantations or improvement works of any sort have been done by the Panchayats in Kanara Western Division.

Relations between the Forest and other Departments.

191. These continued to be cordial.

CHAPTER VIII.

GENERAL.

192. The financial results continued to be highly satisfactory. The revenue expenditure and surplus were Rs. 2,44,99,85, Rs. 1,39,64,163 and Rs. 1,05,35,722 respectively. The corresponding figures for the previous year were Rs. 3,13,80,982, Rs. 1,95,16,683 and Rs. 1,18,61,299. The causes of these changes have been discussed in Chapter VI.

193. Departmental extraction was undertaken for the supply of timber to the Defence Department though the rather unexpectedly quick end of the war with Japan necessitated certain modifications in the operations. All timber produced for the war effort had then to be delivered into the Storage Depots to the full extent of Purchase sanctions by 30th September 1915 and extraction of junglewood species was restricted as far as possible to *matti* (*Terminalia tomentosa*). Sawm teak was produced in Public Works Department and marketable sizes instead of in accordance with specifications of the Supply Department. The Public Works Department gave warning of very large requirements of timber for pre-fabricated bridges and other construction, hence timber of railway quality continued to be extracted but there is still a considerable accumulation of timber of not very high quality in the Provincial Depots which was formerly despatched to the M. E. S.

194. Departmental operations had to be further expanded to provide firewood and charcoal for civil and Military supply.

SALES AND MARKET.

195. This subject has been briefly discussed in the Foreword.

196. Throughout the war the timber market was starved. Small quantities of timbers that were below Supply Department specifications were sold from time to time but this was only a drop in the ocean of demand. With the object of making a start towards, meeting the needs of private consumers sales were held at Dandeli in February and May 1945 and at various times between February

and June at Depots in other Divisions. The timber sold at Dandeli included good as well as rejected material and was purchased mainly by Bombay merchants. The total quantity sold at this Depot was approximately 980 tons and extravagant prices were realised—Rs. 750 per ton for teak logs in February and Rs. 602 per ton in May. Sawn teak realised prices on a corresponding scale but the Bombay market for *matti*, *nandi* and *kindal* was slack. The sales at other depots were almost entirely of rejected materials, i.e., timber below Supply Department specifications. Most of the jungles were sold at prices which did not leave much profit above the high cost of extraction Rs. 60 to Rs. 120 per ton. Teak of any kind sold well at up to Rs. 360 per ton as compared with Rs. 150 per ton for squares of high class before the war. Minor Forest Products also fetched very high prices.

RAILWAY SUPPLIES.

197. 60,216 sleepers were supplied to the M. & S. M. Railway during the year against 78,116 in the previous year.

TRANSPORT.

198. In the Northern Circle the difficulty of transport was not as acute as that of last year due to the gradual increased supply of iron for cart tyres at controlled rates by the Controller of Steel and Iron.

199. In the Southern Circle, transport to depots and rail heads was well maintained during the year. There were more private trucks on the road. These with the 54 Departmental trucks and the 34 that were sold to contractors for war supply work were adequate to deal with timber, charcoal and firewood. The lack of railway wagons, however, was a serious obstacle to Government orders and to trade. Railway movement was difficult throughout the year and became worse with the arrivals in Marmugao Harbour from August 1945 of monthly coalships. Towards the end of the year under report the situation deteriorated further with large movements of grain. Since then a combination of these circumstances has almost brought movement of forest produce to a standstill.

200. The working of the fleet of 50 motor trucks which have been run purely on a commercial basis is analysed below for the period February 1945 to January 1946 :—

Receipt.		Rs.	Expenditure.		Rs.
From hire	... ..	1,70,284	Sheds	... ..	10,900
From Departmental transport of material.		2,16,975	Drivers, cleaners, mechanics and others.		74,371
			Petrol and oil	... ..	49,896
From miscellaneous sources	... ..	5,212	Spare parts	... ..	64,439
			Miscellaneous	... ..	22,880
			Total	... ..	2,22,486
			Profit	... ..	1,60,985
Total	... ..	3,92,471	Total	... ..	3,92,471

201. In addition to the above expenditure Rs. 3,64,406 were spent on the purchase of the fleet of 50 trucks. If depreciation at 20 per cent. and interest at $3\frac{1}{2}$ per cent. on capital cost (Rs. 3,64,406) viz., Rs. 72,881 and Rs. 12,754 respectively are taken into account the gross profit will be reduced to Rs. 84,350.

202. Arrangements for the shipping of Supply Department timber from the Kanara ports were made on behalf of the Defence Department through the agency of the Bombay Steam Navigation Company, Ltd.

ALNWAR-DANDELI RAILWAY.

203. The revenue and expenditure of the Alnwar-Dandeli Railway accounted for during the year show a net profit of Rs. 45,134 (Rs. 1,16,886 receipts minus Rs. 71,752 expenditure) or 38.6 per cent. of gross receipts as against Rs. 53,523 (Rs. 1,11,291 receipts minus Rs. 57,768 expenditure) or 48.09 per cent. of the previous year. The figures of the year include those for 12 months—January 1945 to December 1945 while the figures for 1944-45 represent the financial results for 11 months, February to December 1944. The surplus in the year under report though satisfactory is not so large as in the previous year mainly because the expenditure on structural works and locomotive power increased.

HUNTING AND SHOOTING.

204. The revenue realised from game licenses was Rs. 9,761 against Rs. 7,810 in the previous year.

205. Seven free licenses to hunt and shoot in reserved forest were issued to *bona fide* residents of Kanara.

206. The details of animals killed in Government forest are given below:—

All-India Serial No.	Animal.	Northern Circle.	Central Circle.	Southern Circle.	Total.	Average of 5 years 1940-41 to 1944-45.
1a	Tiger ...	1	4	6	11	11
1b	Tigress ...	...	2	4	6	6
2	Panther ...	4	16	10	30	40
3	Wild cat ...	...	.....	.....	...	...
6	Hyena ...	...	.....	.....	...	...
7	Wild dog ...	...	.....	1	1	1
14	Sloth bear ...	...	.....	3	3	6
15	Wild Elephant ...	...	.....	3	3	12
17	Bison ...	...	.....	8	8	14
29	Blue-bull ...	1	243(a)	.....	244	75
30	Bhekar (4 horned antelope)	2	.....	.....	2	...
32	Chinkara ...	...	1	.....	1	...
33	Barking deer ...	...	.....	.....	...	2
37	Sambhar ...	1	2	.....	3	8
38	Cheetal ...	...	.....	4	4	10
46	Wild pig ...	3	1,191(b)	1,691(b)	2,885	1,325
	Monkeys ...	...	22(b)	.....	22	...
	Total ...	12	1,481	1,730	3,223	1,510

Note.—(a) Includes 242 blue-bull killed by the Gun Club in East Khandesh Division.

(b) Killed by Gun Clubs.

207. Rewards amounting to Rs. 150 were paid by the Revenue Department in the Southern Circle for killing wild elephants.

208. In Siddapur Taluka a man-eater tiger is reported to have killed 3 persons and wounded 2.

209. Two persons are said to have been killed in Supa Petha—one by a tiger and another by a wild-pig.

Increase or decrease in the number of wild animals and birds.

210. There was no change noticed in the animal or bird population in the Northern and Central Circles.

211. In the Southern Circle, elephant, bison, tiger and panther appear to have increased in the forest of Virnoli and Kulgi Ranges of the Kanara Northern Division as these forests are closed to shooting, for their eventual conversion into a game sanctuary. Birds also appear to have increased in this area. A similar increase of wild animals and birds is observed in Kanara Eastern Division.

Gun Clubs.

212. No new gun clubs were formed in the Central Circle. In the Southern Circle the gun clubs which were 37 up to last year were increased during the year to 56. This is apparently the result of the benefits derived from the clubs. It is reported that the working of these gun clubs has resulted in a considerable reduction in damage to crops. The total area under crops protected by the clubs was about 1,40,205 acres producing about Rs. 7 lakhs worth of grains. Rs. 622 were granted as rewards for killing wild pig. An exhibit illustrating crop protection by Gun Clubs was displayed at the Agricultural cattle show at Belgaum.

Grow More Food Campaign.

213. In furtherance of the Grow More Food Campaign Government approved the proposals made by the Chief Conservator for getting as much Forest land as possible under cultivation for food crops under the agri-silvicultural system. The total forest areas given out in this Province for cultivation under the agri-silvicultural system and Eksali leases for the 1946 monsoon amounted to 18,878 acres as shown below :—

District.	Area (acres).
Panch Mahals	4,500·26
Thana	2,277·35
Surat	216·34
Nasik	1,429·10
East Khandesh	792·36
West Khandesh	3,213·34
Poona	955·0
Kolaba	3,263·12
Satara	700·33
Kanara	367·00
Belgaum	1,130·28
	18,878·8

214. The Campaign was also assisted in all the forest settlements of the Central Circle and in the Southern Circle villagers were induced to grow vegetables and more food crop. Vegetables and fruits were grown also in the compounds of subordinates' quarters and offices and bungalows.

215. In Kanara Northern Division and Eastern Division there was little response from the villagers to the offer of forest land for growing food crops (under agri-silvi-system) probably because the existence of vast areas of cultivable waste lands.

Kumri (shifting cultivation).

216. No *dalhi* plots were resumed during the year under report. The areas under the *dalhi* cultivation remained at 27,628 acres. The assessment collected during the year amounted to Rs. 3,363-11-0.

217. There were no major grievances or complaints. The Kumri Marathas of Kamargao (Tirwel) in Kadra Range and those in Bhatkal Range of Kanara Western Division cultivated forest areas in the rotational system on about 146 acres.

Inforest Settlements.

218. The total assessment recovered in the Northern Circle amounted to Rs. 28,229-13-11 and that in the Central Circle Rs. 42,323-11-6.

219. A sum of Rs. 23,000 was granted as tagai to the settlers in the Central Circle out of which Rs. 20,403 including past arrears were recovered.

220. The condition of settlers both in the Northern Circle and Central Circle was fairly satisfactory. Quinine was distributed to the settlers to the extent of the supplies available.

221. Early in the year cholera broke out in some of the settlements in Shirpur East Taluka. Immediate steps were taken to check it.

222. Two wells—one at Khairkhuti in the West Khandesh Sub-Division and the other at Maratha settlement in East Khandesh Division were constructed at a total cost of Rs. 1,358 and Rs. 5,000 respectively from the funds under "39—Public Health Village Water Supply".

Malki Teak in Thana.

223. A sum of Rs. 70,642 was paid as bonus to the District Local Board by the Divisional Forest Officers, North Thana and West Thana.

224. The construction of Tandulwadi Khind road is in progress and only Rs. 100 have been spent upto 30th September 1945.

225. One meeting of the Forest Standing Committee was held on 12th November 1945.

Local Grass Storage under 10-year Agreement in the Panch Mahals Division.

226. The quantity of grass stored at the close of the year was 31,24,609 lbs. During the year there was no scarcity of fodder in the Panch Mahals but area

outside the Northern Circle demanded grass and 18,76,391 lbs. of grass was supplied to the Milk Commissioner, Bombay, and the Collectors of Poona and Sholapur.

Rural Development.

227. Forest officers of all ranks associated themselves as far as supply and other works permitted, with works in connection with Rural Development and during the course of their tours gave advice to the villagers on matters relating to the improvement of economic, sanitary and social conditions. All meetings of the Sub-Committees of the Rural Development Board in connection with Forest matters were attended by Forest Officers. According to the resolution passed in the meeting held at Satara an experiment of silage making on a small scale was carried out at 7 different places, viz., Satara, Karad, Patan and Mahabaleshwar, etc., at a cost of Rs. 4,984. The experiment was moderately successful.

228. A meeting was held by the Collector of Kanara in connection with reboisement of the denuded forests of the coastal plain—strips and other matters. This meeting was attended by the Conservator of Forests, Southern Circle, and the Divisional Forest Officers, Northern Division and Eastern Division, Kanara.

229. The grain depots at Dahisar and Sawa in the North Thana Division were run as last year for the benefit of the settlers.

230. Proposals have been made for the opening of some more dispensaries in the heavy forest tracts of Kanara.

231. A medical officer has recently been appointed for the Dahalli dispensary which will shortly start functioning. Proposals for the construction of a cottage Hospital at Yellapur are under consideration.

232. Clearance of the 1 furlong strip round cultivation and habitation in Telgeri—designed to be a model village in Yellapur taluka—was carried out departmentally at a cost of Rs. 32,115. It is now essential that the strip be kept clear for the improvement of the village as well as for the protection of crops from wild animals.

233. The Better Farming Society at Hattarwad in Belgaum Division has planted mango grafts in the land leased out last year.

234. Work in connection with the 4—Pasture and 6—Pasture rotational grazing schemes—continued. Improvements such as contour trenching, nalla bunding, etc., in the 6—Pasture scheme in Ajnuj, Shirgaon, Degaon and Vala villages of the Satara Division were carried out at a cost of Rs. 722. Regeneration work at Aswali, Ajnuj, Vala and Shirgaon under the Scheme was done but due to failure of monsoon it was met with little success.

235. Similarly improvement works in the 4—Pasture works at Vikhale, Visapur and Nigdi was done at a total cost of Rs. 15,478-4-0.

236. Six Pastures were exploited during the year and Rs. 3,422 were realised from their sale.

Exhibitions.

237. Forest stalls were opened at the Agricultural shows held at Sarangkhed in West Khandesh and Jalgaon in East Khandesh. A special attempt to impres-

upon the public the benefits of the Rotational grazing schemes, Agri-Silvicultural plantations, afforestation of arid areas by contour trenching, etc., was made in the Sarangkhedha show.

Post War Reconstruction Schemes.

238. The progress was made under the different Post-war Reconstruction Schemes sanctioned for this Department :—

SCHEME No. 58—(*Forest Rehabilitation*).

239. The preliminary inspection of Panch Mahals Forests was undertaken by the Divisional Forest Officer, Working Plans, Northern Circle.

240. Preliminary inspection and a rough survey of the Thana forest areas worked under the clear felling system was undertaken. After collection of more data the working Plan of Thana Forests will be revised.

241. No work in respect of revision of the Working Plans was undertaken in Central Circle as the Divisional Forest Officer, Working Plans, Central Circle and his staff were engaged on works under Scheme 88, etc., and on the preliminary survey of the Malki and Inam forests in the Kolaba Division. It is hoped when this survey is completed to devise measures to regulate and control fellings, etc., in these private forests.

242. In the Southern Circle, where the existing Working Plans have been much affected by the heavy fellings carried out to meet war supply demand of timber, firewood, etc., a five-year programme, estimated to cost about Rs. 10 lakhs has been drawn up for the revision of the Working Plans of Forests covering an area of 2,000 square miles and for 5 per cent. enumerations in unorganised forest area in this Circle which cover approximately 2,200 square miles. Experimental 5 per cent. enumerations were started in the Dandeli area.

SCHEME No. 59—(*Communications*).

243. Of the roads proposed for post-war reconstruction in the Province preliminary estimates for the following 11 roads (6 in Northern Circle and 5 in the Southern Circle) costing Rs. 6.46.059 were sanctioned by Government :—

Roads.	Cost.
--------	-------

Northern Circle—

	Rs.
(1) Ozar-Saiwan Road	2,59,467
(2) Haste Palsan Road	27,000
(3) Ambe Gondela Road	13,500
(4) Harsul-Toangaon Road	15,000
(5) Harsul-Adgaon Road	27,000

Southern Circle—

(6) Arwatgi-Dhopenhali Road	28,500
(7) Kalkeri-Holikoti Road	47,000
(8) Londa-Hemadge Road (Via Warkhad)	2,00,000

MINOR WORKS.

Roads	Cost.
	Rs.
<i>Northern Circle—</i>	
(9) Continuation of Khudus-Kandivlee Road to Gorai in West Thana Division.	9,000
<i>Southern Circle—</i>	
(10) Manglankop Amatgar Road 	9,592
(11) Dandeli Depot Road 	10,000
Total 	6,46,059

244. Special repairs to 192 miles of roads in Central Circle at a cost of Rs. 35,000 and to certain portions of Northern Circle roads at a cost of Rs. 14,900 were sanctioned.

245. Rates for works, etc., however, are still rising and the execution of this programme is likely to cost considerably more than the preliminary estimated figures.

246. In addition the Public Works Department have suggested that the special repairs to the Dandeli-Tavargatti road, an estimate for which amounting to Rs. 64,433 has been prepared by the Public Works Department and included in the Post War works of that Department, should be included in the Post-War Reconstruction programme of this Department as part of this road vests in this Department.

SCHEME No. 60—(*Forest Buildings*) (*mainly residential*) and *necessary amenities, particularly water.*

247. A five-year programme of works—Buildings and wells estimated to cost Rs. 44,05,383 was submitted to Government for sanction; but Government decided that the programme of Forest Buildings and wells under this Post-war Reconstruction Scheme should at present be restricted to Rs. 11,00,000 and that an amended priority list of buildings and wells should be drawn up.

SCHEME No. 88—*Improvement of denuded areas.*

248. The work done in the 5 selected Talukas referred to in the last year's report is detailed below :—

NORTHERN CIRCLE.

BULSAR (*Surat District*).

249. A detailed scheme for the improvement of forest and other lands in this taluka was drawn up by the Additional Sub-Divisional Forest Officer appointed for the purpose and submitted to Government whose orders on the same are awaited.

CENTRAL CIRCLE.

Satara.

250. A scheme has been drawn up for the improvement of 8,456 acres of reserved forests in charge of Forest Department, 330 acres of forest in charge of Revenue

Department and about 360 acres of Revenue waste lands in the dry zone of the Satara Taluka. The improvement work contemplated includes re-afforestation, gully-plugging and contour bunding. The scheme provides also for rotational grazing.

251. During the year works were carried out on 1,628 acres at a total cost of Rs. 12,192.

Sangola (Sholapur District).

252. A detailed scheme was drawn up for 38 villages covering an area of 19,898 acres which was sanctioned by Government and work of nalla bunding contour trenching, etc., at a cost of Rs. 3,610 was carried out.

Khed (Ratnagiri District).

253. Survey work was completed and the preliminary report has been submitted to Government. No work was done this year.

SOUTHERN CIRCLE.

Athani (Belgaum District).

254. For the improvement and afforestation of the denuded areas in Athani taluka, a Bombay Forest Service Class II officer with a small staff was deputed. The necessary works were started from 15th January 1946 and continued upto 6th March 1946. Thereafter all the works were taken over by the Land Improvement Department. Collection of information, inspection of Government waste lands covering 5,978 acres and selection of 9 units of 1,821 acres for afforestation were the works carried out during the period at a cost of Rs. 1,310.

255. In addition to the above schemes are being drawn up for Pardi, Chikhali, Chorasi, Bardoli Mandvi Talukas and Vallod Mahal in Surat District.

256. A survey of the Reserved Forests in the Ahmednagar and Ratnagiri Districts which are in charge of the Revenue Department, was undertaken as it is proposed to resume charge of these forest lands and constitute a new forest Division.

WAR SUPPLIES.

1945-46.

SUPPLIES MADE DURING THE YEAR.

257. Statement 'A' gives the abstract of supplies made during the financial year 1945-46. The total quantity and value were :—

34,073 tons and Rs. 50,66,276 as against

52,870 tons and Rs. 78,83,735 in the previous year.

258. The decrease in supply and consequent revenue over that of the previous year was due to the limited demands from the Supply Department of material owing to the sudden cessation of hostilities.

259. In addition the quantity of 2,133·47 tons of teak logs pre-empted during the year valued at Rs. 2,64,474 was purchased in Northern and Central Circles and paid for during the year.

260. 756·68 tons of Junglewood logs valued at Rs. 53,452 were also obtained by pre-emption and paid for during the year in Northern and Central Circles.

261. No material was acquired or pre-empted in Southern Circle during the year for supply to the Defence Department.

2. ORGANIZATION FOR WAR SUPPLY PRODUCTION.

262. Additional staff entertained was continued during the year to the extent required.

3. EXPLOITATION TO MEET DEMANDS.

263. Special emergency fellings outside the Working Plan prescriptions had to be continued during the year.

4. DIFFICULTIES EXPERIENCED IN EXPLOITATION. STAFF, ETC.

264. (a) *Labour*.—There was not much improvement in the labour situation inspite of the increase in daily wage rates.

265. (b) *Road Transport*.—The difficulty regarding the supply of iron and steel for bullock cart tyres was not so keenly experienced as in the previous year. 50 Government controlled motor vehicles purchased last year continued the transport of timber and fuel in the Southern Circle and helped to ease the situation to a great extent.

266. (c) *Rail Transport*.—Rail transport of timber on the B. B. & C. I. and G. I. P. Railways was satisfactory. Wagons were supplied by the Railway authorities on requisition and as regular a flow as possible of despatches was maintained. The control taken over by the Conservator of Forests, Southern Circle, in the matter of allotment of wagons on M. & S. M. Railway for transport of forest produce continued during the year. The movement of coal, grain and other essential commodities having a higher priority, however to a great extent curtailed the wagon supply for movement of forest produce.

267. The quantity of timber moved by rail during 1945-46 was—

23,910·65 tons as against,

52,827·33 tons in 1944-45.

268. (d) *Sea Transport*.—The quantity of material shipped from Kanara ports during the season was 6,372·82 tons as against 7,393·70 tons in the previous year. The shipping was arranged through the Bombay Steam Navigation Co., Ltd.

269. The quantity of 910·19 tons of timber was also moved by country craft from Thana Ports.

270. Despatches to Bombay via Marmugao by Coastal steamers were continued during the year except when booking of timber was temporarily closed under instructions from the Harbour Traffic Superintendent, Marmugao. In all

1,169·91 tons were despatched by this route during the year from the Southern Circle as against 4,768·32 in the previous year.

5. NEW DEVELOPMENTS ARISING OUT OF THE WAR.

271. (a) *Skidding in the Nagzari Valley.*—The total output during the year was 1,764·40 tons against 2,053·51 tons during the previous year.

272. (b) *Sawing organization.*—The total outturn from all Government and private Sawmills during the year was—

15,511 tons as against

15,141 tons in 1944–45.

273. The increase in Sawn outturn is mostly in Southern Circle and is due to the production of Teak M. G. Sleepers.

274. After the stoppage of production of sawn material for the Supply Department, the saw mills were switched on to the production of stock sizes of ordinary Civil building requirements Public Works Department sizes, etc.

275. The Sanjan sawmill in Northern Circle which was erected to work entirely on War supply worked for one year and the contract was not renewed as the sawing was no longer required due to the sudden cessation of hostilities. The Sawta Sawmill contract in Northern Circle was also terminated owing to stoppage of sawing works.

276. (c) *New species introduced during the year.*—No new species were introduced during the year.

277. Some casuarina poles were sent from Western Division, Kanara, and North Thana to the Forest Research Institute, Dehra Dun, for trial as to their suitability as Telegraph and Transmission poles. The result of the tests is awaited.

SOUTHERN CIRCLE.

278. (d) *Supply Department Storage Depots.*—Khanapur depot was newly opened during the year. Gangavali, Tadri, Murdeshwar, Bhatkal and Belgaum depots were closed during the year.

NORTHERN CIRCLE.

279. All the storage depots except those in the North Thana Division were closed during the year.

CENTRAL CIRCLE.

280. All the four existing storage depots continued to function during the year.

281. The audit inspection of the Temporary Storage Depots in the following Divisions of the Northern and Southern Circles was done by the staff of the Accountant General, Bombay :—

Northern Circle.

Panch Mahals.

West Thana.

North Thana.

Southern Circle.

Belgaum.

Eastern Division, Kanara.

Northern Division, Kanara.

Western Division, Kanara.

6. COSTS AND PRICES.

282. Due to rise in the cost of living and of daily wage rates, and of prices of tools and other implements required for timber operations there was a corresponding rise in the cost of production of timber for Defence and Civil Supplies.

7. EFFECTS ON FOREST MANAGEMENT.

283. Emergency fellings were necessary and were continued to meet the demands of the Defence Department to the fullest extent. These constituted fellings in advance of the years prescribed in Working Plans. Planting programme had to be postponed in some cases for want of labour.

8. OTHER DIFFICULTIES.

Scarcity of food stuffs and fodder.

284. Rationed articles of food grains, etc., continued to be supplied to labourers on forest works departmentally and through contractors and Associations as permitted by the District Magistrates and the Director of Civil Supplies.

9. CIVIL SUPPLIES.

285. Special production of matchwood species for supply to Western India Match Company was arranged during the year. Supply of Haldu and Kalam logs to the Textile concerns was also made on the recommendations of the Textile Commissioner. Teak and Junglewood logs and sawn timber for repairs and constructional works, etc., were supplied to Government Departments and commercial firms on the recommendations from the Timber Directorate and the Utilization Conservator of Forests, Bombay Province. The total quantity so supplied was 9,556.62 tons valuing at about Rs. 11,22,343. The following statement show the details of quantity actually supplied during the year 1945-46 under various categories and the value realised for the same :—

Kind of material.	Quantity actually supplied.		Value realised.
		Tons.	Rs.
Matchwood	6,114.37	5,55,265	
Haldu and Kalam	549.94	55,878	
Teak Logs	1,171.48	1,97,323	
Hardwood logs	409.80	44,497	
Sawn Timber	924.64	2,51,341	
Teak Telegraph Poles	11.17	1,834	
Junglewood ballies	375.22	16,205	
Total	9,556.62	11,22,343	

10. PURCHASE OF TIMBER, ETC., ON BEHALF OF THE SUPPLY DEPARTMENT.

286. Supply of 4,225·77 (including the supply of 1,082 tons made during the last year) tons of Teak sawn timber from trade was made to the Bombay Depot and the M. E. S. Full payment amounting to Rs. 15,17,864 for this supply was made during the year. The purchase of this supply was made in accordance with the Supply Department instructions. 406 tons of Lorry Body Sizes sawn out of 1,235 tons of teak logs were purchased from trade and supplied to the Bombay Depot according to the Supply Department instructions.

11. FIREWOOD, ORDINARY CHARCOAL AND PRODUCER GAS PLANT CHARCOAL.

287. (a) *Firewood*.—During the year the Forest Department planned the production of 2,69,952 tons of firewood from forest coupes. To get this quantity some advance coupes had to be worked.

288. The planned production of 2,69,952 tons firewood during 1945-46 and the carry over of 2,00,301 tons of 1944-45 production were placed at the disposal of the Additional Director of Civil Supplies (Charcoal and Firewood), Bombay, to meet the civil and military requirements in the Province.

289. Against the planned production during 1945-46 the actual production of firewood is as shown below :—

Forest Coupes.	Quantity planned to be produced, in tons.	Quantity produced by 30th June 1946 in tons.
Northern Circle	107,498	129,333
Central Circle	92,937	88,454
Southern Circle	69,517	133,565
	269,952	351,352

290. The total movement of the firewood till the end of June 1946 was as below :—

Name of Circle.	Quantity of firewood to be moved.			Quantity moved by 30th June 1946.	Balance on hand on 1st July 1946.
	Quantity produced during 1945-46.	Carry over of 1944-45.	Total.		
1	2	3	4	5	6
Northern	129,333	63,739	193,072	117,704	75,368
Central	88,454	59,990	148,444	96,382	52,062
Southern	133,565	76,572	210,137	116,710	93,427
	351,352	200,301	551,653	330,796	220,857

291. In addition the quantity of 1,69,314 tons of firewood was produced from Malki and Inami lands during the year which was mostly consumed locally.

292. (b) *Ordinary Charcoal.*—During the year the Forest Department planned the production of 87,465 tons of charcoal from forest coupes. This planned production during 1945–46 and the carry over of 27,506 tons of 1944–45 production were placed at the disposal of the Additional Director of Civil Supplies (Charcoal and Firewood), Bombay, to meet the civil requirements in the Province.

293. Against the planned production the actual production of ordinary charcoal is as shown below :—

Forest coupes.	Quantity planned to be produced in tons.	Quantity produced by 30th June 1946 in tons.
Northern Circle	58,095	59,077
Central Circle	27,370	30,390
Southern Circle	2,000	2,475
	87,465	91,942

294. The total movement of charcoal till the end of June 1946 was as below :—

Name of Circle.	Quantity of charcoal to be moved.			Quantity moved by 30th June 1946.	Balance on hand on 1st July 1946.
	Quantity produced during 1945–46.	Carry over of 1944–45.	Total.		
1	2	3	4	5	6
Northern	59,077	16,024	75,101	44,691	30,410
Central	30,390	11,182	41,572	19,678	21,894
Southern	2,475	300	2,775	1,642	1,133
	91,942	27,506	1,19,448	66,011	53,437

295. In addition the quantity of 79,986 tons charcoal was produced from Malki and Inami lands during the year which was mostly consumed locally.

296. The Bombay Firewood and Charcoal Trade Licensing Orders were made applicable to the following Districts :—

Bombay Firewood Trade
Licensing Orders.

Bombay City.
Bombay Suburban.
Thana.
Kolaba.

Bombay Charcoal Trade
Licensing Orders.

Bombay City.
Bombay Suburban.
Thana.
Kolaba.

Bombay Firewood Trade
Licensing Orders—*contd.*

Surat.
West Khandesh.
Panch Mahals.
Satara.
Ahmednagar.
Bijapur.
Nasik.
Poona.
Kanara.
Ahmedabad.
East Khandesh.
Belgaum.
Dharwar.

Bombay Charcoal Trade
Licensing Orders—*contd.*

Surat.
West Khandesh.
Panch Mahals.
Satara.
Ahmednagar.
Bijapur.
Nasik.
Poona.
Kanara.
Ahmedabad.

(e) No P. G. P. Charcoal was produced during the year under report.

12. WOOD DISTILLATION FACTORY AT LONDA.

297. In view of the increasing demands for charcoal and the inability of this Province to meet all the Provincial requirements preliminary steps to utilise the great firewood reserves of the Southern Circle were taken by the granting of a concession for a wood distillation and charcoal making plant in the Southern Circle at Londa. In order to be in a position to exercise some control over this project Government decided to take a half share.

298. This project must however at this stage be considered to be on experimental lines.

299. If the experiment succeeds it is to be hoped that it will be the forerunner of the maximum utilization of the so far under exploited fuel forests of the Southern Circle.

GENERAL.

300. Owing to the insufficient supply of wagons the movements of firewood and charcoal was far from satisfactory. With a view to relieve the distress caused to the contractors on account of their capital being locked due to having large stocks on their hand for want of sufficient wagons, Government have sanctioned advances up to the 50 per cent. of the value of the stocks on their hand out of the total collections up to the end of April 1946 to those who applied for it.

J. PETTY,

Poona, 16th October 1946.

Chief Conservator of Forests,
Province of Bombay.

STATEMENT A.

Particulars of material supplied for War purposes during 1945-46.

DEPARTMENTAL.

Kind of material.	Quantity in tons.	Value.
1	2	3
		Rs.
Teak Logs	7,037	11,82,108
Junglewood logs	12,492	9,22,220
Ballies	716	33,514
Telegraph and Transmission Poles	634	71,843
Hutting Sizes	854	1,49,411
A. B. Planks	1,630	4,07,542
Flitches	1,253	2,97,527
Other sawn material	1,006	1,65,064
Wharf and Bridging timber	1,158	1,41,152
Lorry Body Sizes	2,897	9,68,206
Sleepers	4,366	7,27,659
Total ...	34,073	50,66,276

FOREWORD.

1945-46.

The most important events of the year were, of course, the cessation of hostilities in Europe on 8th May and in the Far East on 15th August. The end of the Japanese War came unexpectedly quickly, and it was not possible to curtail the Production programme which had been planned to meet the requirements of the Government of India, Supply Department. But Post-war reconstruction plans will demand such vast quantities of timbers that cancellation of Supply Department orders should not cause any serious loss.

2. The 1945 monsoon was patchy and some plantations suffered especially in parts of the Northern and Central Circles; but in the Southern Circle and the valuable Thana forests the rainfall was adequate.

3. By the end of the year under review it was not possible to assess what effect the augmented fellings necessary to meet the exceptional circumstances during the war years had had on the Forest Estate. It is expected that a comprehensive statement can be given in the Foreword of this report next year. Meanwhile a few general reflections are offered.

On the whole, grave damage has not been done. Felling prescriptions in Working Plans have always been framed in a conservative manner, and in some of the High Forests in Kanara, the possibility had never been fully worked so there were "hidden" reserves available.

In the Northern and Central Circles a considerable number of coupes had to be felled (before the date prescribed in the plans) to meet abnormal demands which in this case was mostly for firewood and charcoal. There was a good deal of additional selection fellings in areas not yet due to be worked in order to obtain timber (especially for matchwoods) and poles and this will reduce the value of these stands at maturity. Owing to shortage of staff and labour, silvicultural operations, particularly thinnings, had to be postponed; but vigorous work during the next two-three years should clear off the arrears and the delay should not have caused much serious harm. Regeneration has been carried out on a reduced scale but if staff and funds are sanctioned, it should be possible to bring the plantation programme up-to-date within a very short period.

For most of the Southern Circle the above observations also apply but in the Mandeli region of the Northern Division Kanara (in which the best teak in the Province is found) there has been considerable overfelling, especially of the largest and finest quality teak trees. Before the war this area produced about 6,500 tons of teak timber a year; it is now estimated that the outturn must be limited to 900 tons a year. However from these forests a sustained annual yield of 25,000 tons of assorted "junglewood" timbers can be maintained (pre-war extraction was less than 1,000 tons a year). Teak elsewhere in this Circle has not been so heavily tapped, and there are also immense reserves of other species which can provide timber of quality adequate for most purposes. Some of the teak planta-

tions have suffered owing to lack of tending and where the Bamboo has established mastery the harm done may be irreparable; but it is hoped to give the necessary silvicultural attention to all areas that can be improved in the next season or two and curtail the effects of the neglect.

The urgently required improvement of the housing of the forest staff had mostly to be postponed and road and track upkeep had to be reduced to a minimum. Fire Protection also had to be curtailed and damage from fires has been heavy and extensive.

If Working Plans are quickly modernised and most of the surplus funds earned by the Department in the next few years are put back into the Estate it should soon be in good order again.

Shortage of large size teak for constructional works and timber for matchwoods are likely to be the most serious legacies left by the war years.

4. Up to the end of the year under review the Bombay Forest Department supplied nearly 2½ lakhs tons of timber (value about Rs. 2½ crores) to the Government of India much of it of high quality teak which, after the fall of Burma, could not be obtained from other sources. This contribution to the war effort was therefore of substantial importance. Many thousands of tons of fuel were also provided for the Military encamped and under training in Western India. Firewood requirements of the urban areas were everywhere met and charcoal production was rapidly increased to meet the expanding domestic demand (especially in the towns) and to provide producer gas plant fuel.

5. In 1938-39 the total wage bill paid by the Department and the forest contractors for labour was estimated at about Rs. 30 lakhs; in 1945-46 the estimate was Rs. 90 lakhs. In 1938-39 the average amount earned by a family of man, woman and child was As. 6 each i.e., Re. 1-2-0 a day; in the year under review it averages about As. 15 each—Rs. 2-13-0. In the Thana forests although the minimum wage is As. 12 a labourer gets Re. 1-4-0 to Rs. 1-8-0. In some areas semi-skilled labourers are now earning up to Rs. 3 a day.

These figures show satisfactory trends. The days when the unfortunate charcoal burner was paid a starvation wage so that the urban public could obtain excessively cheap fuel are now past.

6. To cope with the increased activities the staff of this Department was gradually expanded until the strength was nearly one-third greater than pre-war. But the scope of operations and the amount of work have more than doubled and the whole staff—officers, rangers, subordinates and ministerial establishment—has been heavily overworked and continue to be so. There was always a time lag (which often seemed unduly long) before dearness allowances etc., were granted which compensated to some extent for the increased cost of living and this caused additional worries to the fixed pay Government servants. The bulk of the forest staff live in out-of-the-way places, and as soon as food, goods, drugs (so essential in many forest areas) etc., became scarce the difficulties of these remote dwellers were immense. The war years have been "hard" for the forest establishment and the death incidence—especially in Kanara—has been unduly high.

7. The table below gives the production of timber and fuel at the beginning and end of the war :—

Year.	Timber in tons.		Fuel in tons.	
	Excluding concessions and free grants.		Excluding concessions and free grants.	
1939-40	1,23,000	3,93,000
1945-46	2,09,000	7,82,000

Timber production increased by nearly 60 per cent.; fuel production by 100 per cent. There has also been a greater demand for other forest products—classified as "minor forest produce"—particularly for grass for fodder. New activities have been encouraged and developed for instance; tapping of *Ailanthus malabarica* gum (dhup) which now realises Rs. 30,000 a year, compared to a negligible amount before the war, and manufacture of starch from *Hitchenia caulina* (chawar).

8. Because of the requirements of the war effort, supplies of timber for civil consumption were necessarily curtailed and in consequence timber prices rose at first steadily, and then steeply. The following table gives figures at Dandeli (the main Kanara Depot):—

	Teak logs a ton.		Teak sawn wood a cft.	
	Rs.		Rs. a. p.	
1939	110 to 150	1 8 0 to 3 8 0
1946	600 to 750	11 0 0 to 16 0 0
	Junglewood logs.		Junglewood sawn a cft.	
	Rs.		Rs. a. p.	
1939	40 to 50	No market.
1946	100 to 200	4 0 0

Extraction costs have risen four fold, and are not likely to fall again to pre-war prices, so timber is certain to be more costly in future even after the present colossal demand has been met.

There is now a world shortage of teak which may continue for perhaps a decade. Burma was the biggest producer before the war and still has immense stocks of trees but the organisation for extraction has been broken up (most of the working elephants were killed by the Japanese), the country is still unsettled and, as it takes some years from the time a tree is marked and girdled before the timber reaches the ports, it must be a long time before pre-war quantities of teak are available for export. Teak stocks, therefore, will have to be carefully conserved and used only for important Government works or essential national industries. The Bombay forests, however, can supply thousands of tons of timbers of other species as strong as teak, many of which will be suitable for most constructional works especially after preservative treatment. Adequate supplies of timber for furniture and other wood working industries can also be made, though large scale seasoning plants may have to be constructed at the main depots. The forests

can provide all the timber required in this Province at not unreasonable prices if contractors and the public will not always insist on teak. Propaganda popularise the so-called "junglewoods" must be an important item in Post-war forest activities.

9. Wood fuel rates have also risen. Retail prices in Bombay then and now are:

	Firewood. (Bengal maund of 82 lbs.)			Charcoal. (Bengal maund of 82 lbs.)		
	Rs.	a.	p.	Rs.	a.	p.
1939 (uncontrolled)	0	14	0
1946 (controlled)	2	2	0

The demand for wood fuel has expanded enormously because of the rapid increase of the population in the urban areas owing to more employment being available, the improved standard of living because of better earnings and curtailment of supplies of kerosene, coal etc. etc., Bombay (where population has increased about 60 per cent.) consumed and now consumes:

				Firewood in tons.	Charcoal in tons.
1939 (estimated)	...	...	...	60,000	1,44,000
1946 (Approximately)	...	...	...	1,20,000	2,86,000

Of the present charcoal consumption about half is imported from the Central Provinces. It is believed that the forests in that Province which provide much of this fuel have been overfelled and the local Government may have to put some restrictions on production to save them from complete destruction. Should this occur in the near future the fuel situation in Bombay—which has not been easy for some years—would gravely deteriorate.

Pre-war the country-side throughout most of this Province was fairly well wooded but high prices for fuel and the grow-more-food campaign has encouraged large scale fellings in the rural areas and there has been little replacement planting. Firewood for the villagers is becoming more and more scarce and cow-dung which should fertilize the fields, is being increasingly used for domestic heating with the consequent impoverishment of the land.

The methods of assuring correct management of private forests are still under consideration.

10. Revenue, expenditure and surplus figures pre-war and now are as under:

				Revenue.	Expenditure.	Surplus.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1939-40	38,60,805	26,29,866	12,30,729
1945-46	2,44,99,885	1,39,64,163	1,05,35,722

Revenue and expenditure was 5-6 times greater; the surplus expanded eightfold. These figures may give the impression that the prices charged during the war have been excessive; but the following tables will indicate it is only during the past few years, that forest earnings an acre have begun to reach reasonable figures:

(In addition to information about the Bombay Province data is given for the U.P. Forests—which are generally acknowledged to be the most fully developed and best managed in India—and for Sind which was formerly under Bombay Forest earnings an acre of other Provinces were, and still are, less satisfactory.) :—

Year.	Province.	Reserved Forest area in acres.	Forest revenue an acre.	Expenditure an acre			Surplus an acre.
				On establishment.	On works.	Total	
		Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1938-39 ...	Sind ...	7,39,000	1 2 10	0 7 0	0 0 8	0 7 8	0 11 2
	U.P. ...	39,50,000	1 6 1	0 7 4	0 5 2	0 12 6	0 9 7
	Bombay ...	68,66,000	0 9 6	0 4 8	0 1 7	0 6 3	0 3 3
1943-44 ...	Sind ...	7,39,000	4 12 10	0 8 2	0 7 0	0 15 2	3 13 8
	U.P. ...	39,50,000	4 11 5	0 13 2	0 12 6	1 9 8	3 1 9
	Bombay ...	68,54,000	3 1 9	0 5 8	1 5 7	1 11 3	1 6 6
1945-46 ...	Bombay ... (Details for Sind and U.P. not available).	68,35,000	3 9 4	0 7 3	1 9 5	2 0 8	1 8 8

The Bombay figures are for the Reserved forests in charge of the Forest Department. If the Reserved forest in charge of the Revenue Department, some 12 lakhs acres (which at present, make practically no revenue) had been included the acreage earnings would be much less.

Indirectly forests are of immense benefit to a country as they prevent erosion, preserve catchment areas, affect climate, etc., etc. and this value cannot be assessed in rupees but when fully developed and properly managed they can also yield substantial revenues.

11. During the war the officers of this Department had little time for post-war planning and schemes proposed were sketchy and meagre. After the war in Europe finished there was greater emphasis on future developments and to deal with these matters Government created a new temporary post of Special Conservator of Forests (Planning).

This officer called for ideas and suggestions from all members of the Department. The response was excellent and many valuable proposals were received—particularly from the Range Forest Officers.

A questionnaire was sent to every factory in the Province enquiring about how much timber and wood fuel was being used and what the future demand was

expected to be. Over 4,500 forms were sent out and though the total number of replies received was under 20 per cent., practically all the large consumers replied with the result that a vast amount of valuable data was collected.

As the result of this enquiry, examination of import and export statistics, figures of consumption of charcoal and firewood given by the Additional Director of Civil Supplies (Firewood and Charcoal) etc., it was possible to make an estimate of timber and wood fuel requirements of this Province. This shows that the forests will probably have to produce *eventually* about 3 lakhs tons of timber a year (present production about 2 lakh tons) and a minimum of 16 lakhs tons of wood fuel in the form of firewood or charcoal (present production about 8 lakhs tons). To ensure production in future of these large quantities the Special Conservator estimated that the plantation programme, which was about 4,000 acres a year pre-war, must be expanded to about 31,000 acres annually.

The territorial Conservators consider that they can increase the area planted to 20,000 acres or so a year within the next three years if increased staff and some machinery for breaking up the land etc., is provided. It ought therefore to be possible to work up to the full programme within 6-7 years by which time it is hoped that a greatly augmented staff will be available to tend these large areas of young tree crops.

12. The Special Conservator of Forests submitted proposals for the creation of a Research Circle, to study silvicultural and utilization problems, and an Engineering Circle to deal with mechanisation, road and building construction, sawmills etc., etc. These proposals are now under consideration of Government. Meanwhile an officer (who is likely to be head of the new Forest Engineering Circle if created) has gone to U.S.A. to study the latest developments in extraction, wood technology etc., etc.

13. Proposals for a Grazing and Afforestation Circle were also made. It was pointed out that the Reserved Forests of this Province cover 13,000 Sq. miles which is about $\frac{1}{4}$ th of the whole Provincial area. Of this total some 2,200 Sq. miles of Reserved and Protected forest have been in charge of the Revenue Department since about 1910 and because that Department has neither the technical knowledge nor the necessary staff to adequately manage these lands the tree growth has almost everywhere disappeared and, as a result of this and continual overgrazing, erosion has been so bad that much of the area is now practically unproductive. It was suggested that these lands should again be put in charge of the Forest Department and be combined with some 2,000 Sq. miles of forest (managed by the Forest Department) which is maintained chiefly for grazing and supply of fuel for the rural area to form a new Circle. The chief work of this new organisation will be reclamation of land by anti-erosion operations, introduction of rotational grazing schemes to improve grass supplies and planting of fodder and other trees and formation of village forests to meet the demands of the rural areas for small timber and fuel. Experiments on anti-erosion operations etc. indicate that some Rs. 30 an acre must be spent on preliminary works and up-keep. The area that has to be improved is about 25 lakhs acres in extent so the cost will be great. But can the Province afford not to bring into production such a vast area of land?

Some of the cost of this work might be met by charging grazing fees which Government abolished ten years ago. It is estimated that the value of grazing and grass

removed free is now about a quarter of a crore of rupees a year. If grazing fees are re-introduced (except perhaps for essential cattle e.g. a pair of bullock for the plough and one cow or buffalo for milk) in areas where improvements have been undertaken a gradually increasing revenue will be obtained which should be ear-marked for further expansion of these operations. Within one or two decades the productivity of these lands should have increased several fold so that larger herds of far better quality cattle can be maintained in good condition.

14. The Planning Conservator pointed out that the average size of Forest Circles, Divisions and Ranges in some of the Provinces in India varies considerably :—

Province.				<i>Circles</i>	<i>Divisions</i>	<i>Ranges</i>
				In sq. miles (Approx.).	In sq. miles (Approx.).	In sq. miles (Approx.).
Sind	...	...	...	1,100	180	45
United Provinces	...	...	...	1,750	280	60
Punjab	...	...	...	1,750	320	.....
Bombay	...	...	...	3,570	595	95
Madras	...	...	...	4,700	620	135
Central Provinces	...	...	...	6,000	1,000	.....

In Mysore State the forests cover about 3,500 Sq. miles and the superior staff is 1 Chief Conservator, 2 Conservators and 12 Divisional Forest Officers; in the Southern Circle of Bombay Province the forests cover 4,210 Sq. miles and are very similar in type to those in Mysore but the staff is 1 Conservator of Forests and 5 Divisional Forest Officers. As is naturally to be expected because of the more intensive working possible with a larger staff the Mysore Forests make much more revenue an acre than the forests in the Southern Circle.

Generally speaking the earnings an acre from the forests of the various Provinces almost exactly follow the tabular statement above, i.e. Sind and the U.P. make the most and Madras and C.P. the least. It will be noted that figures given under paragraph 9 (above) indicate that Bombay spends much less an acre on establishment than the leading forest Province which is the United Provinces.

Many factors must, of course, be considered before the size of a working unit can be decided but there is no doubt that the smaller the unit the more generally efficient the management.

Proposals were therefore submitted to Government for expanding establishment by about 33 per cent (in the first instance) to cope with the new plantation programme and other planned developments.

It was also suggested that senior officers of this Department should be allowed to advise adjoining States on Forestry and similar problems to ensure that the physical features of the country-side are preserved by proper conservation because denudation of State territory near this Province might have serious effects on Bombay's rivers, agricultural lands, etc.

Some of the proposals have since been sanctioned and more details have been called for about others.

15. Collection of data in connection with the preparation or revision of Working Plans was started during the working season. The Forest Research Institute, Dehra Dun, having proved that 5 per cent-10 per cent enumeration over a sufficiently large area gives reasonably accurate estimates of the growing stock it was decided to enumerate about 3,000 Sq. miles of the forest in the Southern Circle, two-thirds of which has never been examined in detail before. The work done by the end of year has already produced highly valuable information and operations are to be greatly expanded during the next working season.

16. Schemes for afforestation operations in some special Talukas were drawn up but operations have been, up-to-date, only on a small scale.

17. Just before the war a concession was granted to the Karnatak Industrial Plywood Company in the Supa area of Kanara for the extraction of timber for manufacture of Plywood; during the war a similar concession was granted in the Dandeli area to another Company. The Indian Plywood Company. Both companies had many difficulties to overcome such as securing machinery in war time, shortage of labour, etc., etc., so neither company ever got into full production. Both Companies are now endeavouring to bring their plant up-to-date.

Negotiations for the formation of a Wood Distillation Company, which to begin with, is to concentrate mostly on charcoal production, were completed during the year. Government is providing half the capital and appointing half the Directors to the Board. A factory is to be erected at Londa in the Belgaum District not far from the Kanara border which will use wood from the forests that formerly supplied fuel to the M. & S. M. Railway.

Other major commercial developments are under consideration.

18. As heretofore this Department continued to supply officers, rangers, etc., to the Land Improvement Organisation and this enabled operations of that Nation building Department to be expanded.

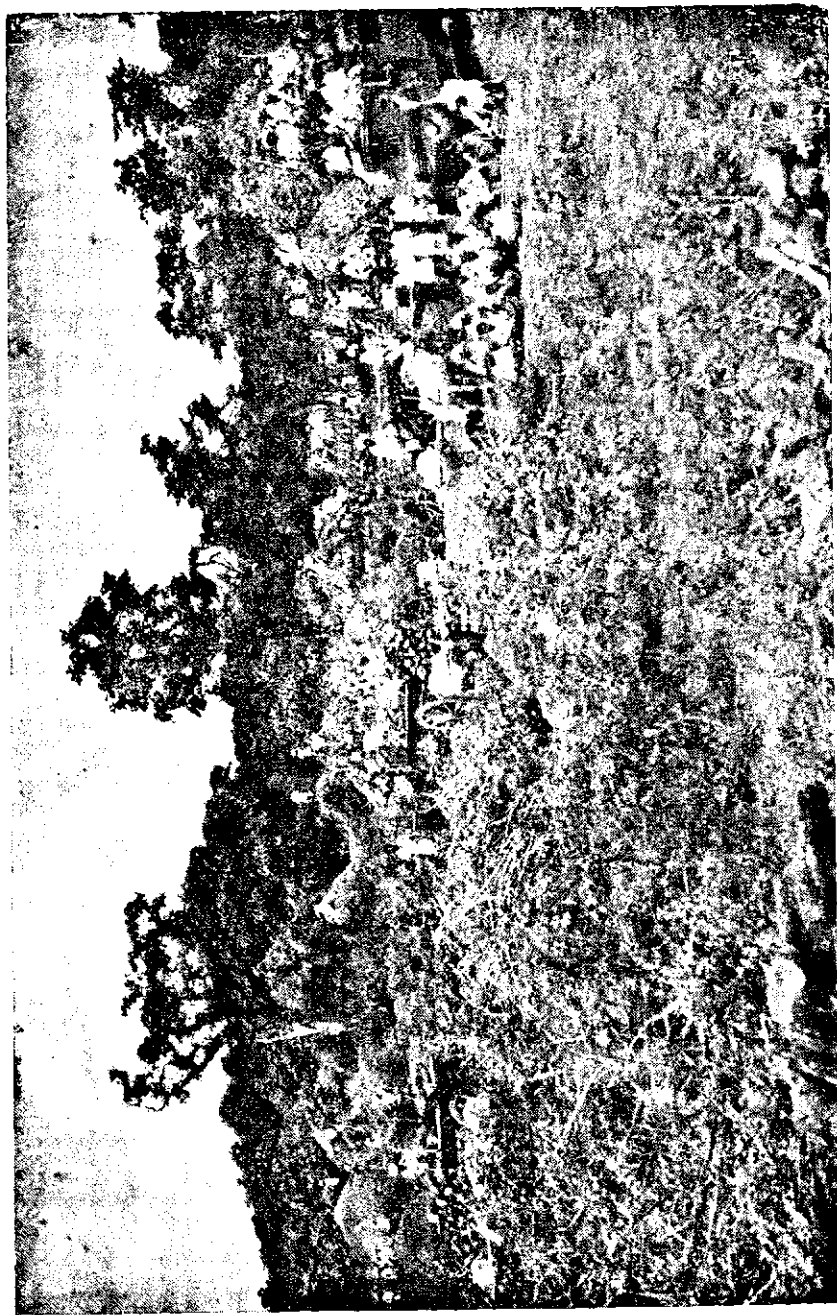
19. On the whole a successful year.

J. PETTY,

Chief Conservator of Forests,
Province of Bombay.

Charcoal Manufacture in Coupe No. 18—Block II—Khanapur Range.

CONTRACTOR MR. B. U. MURGOD.



Photograph of Charcoal Kilns in Belgaum Division of the Southern Circle. A Battery of eight Kilns is seen in the Background of which the kiln in foreground is for ignition. The Kilns are of the Pongol type.

**FOREST ADMINISTRATION REPORT OF THE PROVINCE OF BOMBAY
FOR THE YEAR 1946-47.**

CHAPTER I.

Constitution of State Forests.

(1) ALTERATION IN AREAS.

The changes in forest areas were as follows :—

Class of Forest.		Area on 1st April 1946.	Added during the year.	Excluded during the year.	Area on 31st March 1947.
		Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.
Reserved ...	{ In charge of Forest Department ...	10,520	40	1	10,559
	{ In charge of Revenue Department.	1,595	...	37	1,558
Protected ...	{ In charge of Forest Department ...	160	...	...	160
	{ In charge of Revenue Department.	594	1	...	595
Total ...		12,869	41	38	12,872

The areas added and excluded comprise :—

	Square Miles.	
	Gain.	Loss.
Disforestsments in favour of cultivation ...	...	1
Afforestations ...	3	...
Transfer from Revenue Department to Forest Department.	37	37
Errors corrected ...	1	...
	41	38

Nett gain :—3 square miles.

2. Due to the creation of an Extra Territorial Circle the following changes took place in the areas of the Circles :—

Old Circle.	New Circle.	Area of the Circles as on 1st April 1946.	Area transferred.	Area added.	Area of the new Circle on the basis of the area on 1st April 1946.
		Sq.M.	Sq.M.	Sq.M.	Sq.M.
	North Western Circle.	...	...	1,563	1,563
Northern Circle ...	North Eastern Circle.	2,881	1,563	2,222	3,540
Central Circle ...	Central Circle ...	3,591	2,222	1,057	2,426
Southern Circle ...	Southern Circle ...	4,208	1,057	...	3,151
		10,680	4,842	4,842	10,680*

* Area as shown in column 5 of Form 51—Part I of the appendices.

(2) FOREST SETTLEMENT.

3. The total area of reserved forest pending settlement at the commencement of the year was 5 square miles, 499 acres, to which further 618 acres were added during year. Out of this only 20 acres were settled during the year, the cost incurred being Rs. 5,545.

4. In the Satara Division an area of 28 acres, 34 gunthas was acquired at a cost of Rs. 4,977, while no acquisition of first class survey numbers was carried out in Poona Division. The survey numbers acquired await notification under the Indian Forest Act.

(3) DEMARCATION.

5. No new boundaries were demarcated during the year. Existing boundaries (including those between British territory and Goa and Indian States) were repaired at a cost of Rs. 10,816. Rs. 1,059 were spent on erecting new columns along the boundary of the seven disforested settlements in Sakri Range of the West Khandesh Sub-Division. The total length of the boundaries at the close of the year was 37,110 miles.

(4) FOREST SURVEYS.

6. No survey work was carried out during the year.

7. The expenditure on the constitution of State forests was Rs. 16,361 against Rs. 5,470 in the preceding year.

CHAPTER II.

Management of State Forests.

(1) REGULATION OF MANAGEMENT.

(a) Preparation of Working Plans.

8. No new Working Plans were sanctioned during the year. The draft Working Plan for the Sirsi-Siddapur Sandwood areas was under review.

9. The collection of data for the revision of the Panch Mahal Forest Working Plan was completed during the year by the Divisional Forest Officer, Working Plans, Northern Circle, who has submitted necessary preliminary report about the revision of the Plan. Enumeration of the Thana forests has now been undertaken for collecting data for the revision of the Thana Working Plans. During these enumerations data has also been collected for preparing form factor tables of Ain and other important junglewood species. A number of typical areas were inspected and girth measurements recorded in order to find out the effect of coppice with standards and clearfelling systems on soil fertility, regeneration and stocking in Thana forests. A rapid survey of the coastal areas in the North and West Thana Divisions was also made in order to find out suitable areas for the raising of casuarina plantations.

10. The Divisional Forest Officer, Working Plans, Central Circle, nearly completed the collection of data required for the revision of the following Working Plans :—

- (i) Working Plan for the Tanspurna Babul forests of the Edlabad Range.
- (ii) Working Plan for the Tanspurna Babul forests of Jamner, Bhusawal and Edlabad Ranges.
- (iii) Working Plan for the Anjan and scrub forests of Edlabad Range.
- (iv) Working Plan of the East Khandesh scrub and Jamner Teak Pole Reserves.

11. In the Belgaum Division the Divisional Forest Officer, Working Plans, Southern Circle, carried out a 5 per cent. enumeration of all species, and bamboo clumps in the unorganized forests of Supa High Lands covering an area of 12.2 square miles. Stock mapping of vegetation type and of bamboo areas was also completed.

12. Cent per cent. enumeration of all species including bamboos, undertaken in the previous year, was continued in the Northern Division Kanara High Forest, Series I to VII, covering an area of 9.9 square miles. In one of the compartments research was carried out into the results of enumeration in strips as compared with complete enumeration. Height and diameter measurements of mature trees of marketable timber species growing under normal conditions were also carried out in 17 compartments. Data for tree volume tables together with weights of bamboos — Dowga (*Bambusa arundinacea*) and Medar (*Dendrocalamus strictus*)— cut and classified under different categories was collected. 10 per cent. enumeration and stock mapping was done in respect of 79.64 square miles of Bhagwati blocks VIII, IX and XX and part of old series III and IV. Enumeration and stock mapping was also done in 7 compartments of Block X and 8 compartments of Block XI (part) of Gund forest covering a total area of 12.74 square miles as Working Plan for Gund forest sanctioned in 1946 dealt with only 8 main species,

while the Post-war conditions necessitated the consideration of all junglewoods including soft woods from the stand point of commercial exploitation.

13. In compartments 6 to 17 of Block XVII in the Nersol Slope High Forests in Eastern Division Kanara 10 per cent. enumeration of all tree species including bamboo clumps was carried out, the area covered being 15.21 square miles. Collection of plantation growth statistics as well as of mature trees growing in normal conditions was also made. 10 per cent. enumeration with stock mapping was also done in 127.17 square miles of Yellapur-Mundgod High Forest Working Plan and in 7.47 square miles of Yekambi-Sonda High Forest and 50 per cent. enumeration with stock mapping in 32.02 square miles of unorganized forest in Yellapur Taluka.

14. Compartments 1 to 48 of Block XXVI were also subjected to 10 per cent. enumeration of all tree species including bamboo clumps. The area covered in these compartments was 46.53 square miles. Heights and girths of mature trees of important species were recorded at an average rate of 50 per square miles. 1.6 acres of Chiva bamboo (*Oxytenanthera monostigma*) was cut to determine weight of Chiva obtainable per acre of stock mapped area.

15. Almost all the Working Plans in the Province require revision for reasons such as over exploitation, or advance working during the War, expiry of period, silvicultural reasons and particularly bringing into use the hardwoods, softwoods and bamboos for major and minor industries.

(b) Control of Working Plans.

16. The prescriptions of the Working Plans in force were adhered to as far as possible, but deviations were inevitable in some cases to make provision of timber for housing scheme etc. and of firewood and charcoal for civil supply.

17. The Matheran coupes, due for felling during the year, were not worked as the fuel depot at Matheran had a sufficient stock of fuel on hand. In the Terrace Felling Series II no new fellings were carried out in coupes 14 onwards, as the cost of extraction and transport was prohibitive.

18. In the Southern Circle some coupes in Dharwar and Kalghatgi Ranges were also withheld from sale owing to the existence of large stocks of firewood in the departmental depots, whilst in Western Division Kanara some coupes remained unsold either for want of demand or on account of inaccessibility. The coupes in Block VI of the Karwar Fuel Reserves Working Plan due for felling from 1935-36 have been withheld from sale until it is seen if the coupes already cut have recovered. Coupes in Block XIII are thrown open for the exercise of privilege as per Government Resolution, Revenue Department, No. A/98/D, dated 6th November 1922.

19. A number of other coupes due for sale remained unsold owing to the lack of demand on account of poor quality of the growth, inaccessibility of areas, long lead or paucity of labour.

20. Extraction contracts of war years were wound up as far as possible, but in a number of cases material still remained to be converted and transported from jungles. In series I to VIII of Northern Division Kanara new contracts given out were estimated to yield 2,000 tons of teak as compared with the Working Plan prescription of about 3,500 tons. This was based on tentative calculations of interim yield made by the Working Plans Officer, pending a more complete estimation. Elsewhere a return was made to Working Plan prescription.

21. Irregular working of *Bombax malabaricum*, *Mangifera indica*, *Lophopetalum wightianum*, and *Spondias mangifera* was done in order to meet emergent needs of the matchwood industry.

22. Planting programmes in the Southern Circle had to be postponed in some cases for want of labour.

23. The pasture Working Circle of Igatpuri forests has been substituted by new rotational grazing scheme plus formation of grass cutting kurans. An area of 1,768 acres 10 gunthas out of the grass cutting kurans was declared permanently closed to grazing. Three of the kurans were advertised for sale during the year but only two were sold.

(2) COMMUNICATIONS AND BUILDINGS.

(a) Roads and Bridges.

24. An amount of Rs. 14,635 was spent in Southern Circle on new works, namely on collection of metal and boulders for resurfacing the Dandeli depot roads and for construction of culverts on the Mugad Mavinkop road. The expenditure on new works last year was Rs. 9,288.

25. 1256.4 miles of roads and 64 miles of tracks and bridle paths were repaired during the year at a cost of Rs. 1,71,886 as against 1,268 miles of roads and 64 miles of cart tracks and bridle paths costing Rs. 97,600 in the previous year. The cost includes Rs. 6,597 spent in North Eastern Circle on repairs to 71.6 miles of roads under Post War Reconstruction Scheme 55.

26. The annual contribution of Rs. 200 was made to the District Local Board, Kolaba, under Government sanction, for the maintenance of the Taleghar-Roha road via Nalephali.

27. The cost on the maintenance of the Alnavar-Dandeli Railway was Rs. 1,44,388 which were paid to the M. & S. M. Railway Company against Rs. 71,752 in the previous year.

28. The proposal to transfer permanently the Hatgad-Vani road either to the Public Works Department or to the District Local Board awaits decision.

29. The Commissioner, Central Division sanctioned Rs. 2,500 for the bridle path from Kothar to Chandseli, which work has to be undertaken by this Department.

(b) Buildings.

30. The cost on new buildings and on special repairs to buildings was Rs. 57,351 including Rs. 27,683 under D—Special Development Fund, and on ordinary repairs was Rs. 51,088, as against Rs. 69,775 and 41, 229 respectively of the preceding year.

31. Experiments were being carried out in Southern Circle, with the help of the Forest Engineering Circle, to evolve a cheaper type of building the adoption of which would enable the Department to put a very much larger part of its building programme into operation. The lack of sufficient Civil Engineering staff in the Engineering Circle is, however, holding up this development indefinitely.

(c) Other Works.

32. A new well was constructed at Nandni in West Thana Division at a cost of Rs. 310, the expenditure on repairs to wells, compounds etc. during the year being Rs. 13,091. The corresponding figures for new works and repairs in the previous year were Rs. 1,597 and 6,503 respectively.

33. The following wells, funds for which were sanctioned by the Commissioner Central Division under village water supply scheme (39-Public Health) were under construction in the North Eastern Circle :—

Name of well.	Division.	Amount sanctioned by the Commissioner.	Amount spent to the end of the year.
		Rs.	Rs. a. p.
1. Well at Rankheda	East Nasik	2,193	800 5 0
2. Well at Birola	Do.	2,487	
3. Well at Lakadya, Hanuman	West Khandesh	1,500	1,039 0 0
4. Well at Shahana	Do.	1,415	

(3) PROTECTION OF FORESTS.

(a) General Protection.

34. The following table compares the number of forest offences during the year with those of the previous year and the average of the past 3 years :—

Class of Offences.	1946-47.					Total for 1946-47.	Total for 1945-46.	Average for 1943-44 to 1945-46.
	North Western Circle.	North Eastern Circle.	Central Circle.	Southern Circle.				
1	2	3	4	5	6	7	8	
I Injury to Forest by Fire.	522	386	265	88	1,261	1,922	1,868	
II Unauthorised felling or removal of Forest Produce.	4,467	6,367	3,714	1,768	16,316	16,038	15,557	
III Unauthorised grazing.	1,368	1,743	1,564	255	4,930	4,720	4,863	
IV Other offences..	896	1,573	726	391	3,586	3,156	3,479	
Total for 1946-47 ..	7,253	10,069	6,269	2,502	26,093	..	..
Total for 1945-46 ..	7,138	10,875	5,375	2,448	..	25,836	..	
Average for 1943-44 to 1945-46.	7,346	10,642	5,618	2,161	..	..	25,767

35. The total number of offences detected during the year shows an increase of 257 offences over the number of the previous year and of 326 over the average of the past 3 years.

I—Injury by Fire and Fire Protection.

36. During the year fire incidences in the Province decreased by 661 cases. The decrease was due to introduction of better protection measures, removal of grass by the villagers due to fodder scarcity and the late rains in some parts. Owing to the late rains it was not possible to judge the efficiency of the extra measures of fire protection that were adopted.

37. Special measures of fire protection were adopted in the Southern Circle which consisted of :—

(a) cutting bamboos and undergrowth on a line 100' wide in the forest adjoining the plantation boundaries, the latter being 50 feet wide. Where, as in many places, these had become overgrown, they were cleared.

(b) clear cutting a 10 feet wide guide line on the forest side of the above 100 feet line.

(c) burning from the plantation boundary to the guide line and keeping the latter swept clear.

(d) clearing as in (a) and (b) above along main roads and compartment lines surrounding protected areas. It has been decided to test the efficacy next season of the lines already prepared (and to be maintained) and for the rest to go in for more intensive sweeping of guide lines only and extra patrols.

38. Fire protection was satisfactory all over the Province though Panch Mahals Division in North Western Circle, West Khandesh Division in North Eastern Circle and Belgaum Division in Central Circle showed an increase in the number of fires.

39. In the Senior Forest Officers' meeting held on 11th June 1946 effective measures of fire protection were discussed. The measures suggested were :—

(i) *Permanent labour Parties.*—The idea was that labour should be recruited on a permanent basis for fire protection work in the fire season, the men being employed on other works in the rest of the year. Labour parties have been sanctioned for certain ranges in North Western Circle and North Eastern Circle for trial purposes.

(ii) *Education and Propaganda.*—It was agreed that it would be advantageous if school curricula could be made to include simple teaching about the forests, its uses and the necessity for all to continue to protect it. With the forest education must march the policy of rewarding good forest protection.

(iii) *Mobile fire fighting units.*—With this was involved the question of communications along fire lines and to other key points. A bull-dozer was suggested with such complementary units as may be necessary for trial purposes. Firefighting units equipped with foam extinguishers and throwers for counterfiring and leather or wire netting flails for beating out fires also merit trial.

(c) Dry stone walls should give good results but as this involved enormous cost proposals to give this method a trial were dropped.

II—Unauthorized Felling and Removal of Forest Produce.

40. There was an increase of 278 offences under this head over the last year's figure, the North Western Circle and the Central Circle contributing to the increase, while the other two Circles showed a decrease in the number of such offences. The increase under the head was due to the high prices for fuel as also to its scarcity.

41. Though North-Eastern Circle showed a decrease under this head on the whole, there was increase in 2 of the Divisions, viz. West Khandesh and East Nasik. While better detection accounts for the better results in the latter, in the former the fuel head-load traffic of Taloda was responsible for the increase. Besides there was an organized effort to loot forest by Malki Teak contractors and forest coupe contractors either with or without the connivance of the Forest subordinates. The matter was under investigation.

III—Unauthorized Grazing and Protection from Cattle.

42. The offences under this head also showed an increase of 210 cases. The Central and Southern Circles were responsible for the increase, while other two Circles showed a decrease.

43. The areas open and closed to grazing were as follows :—

	Square miles.	Percentage.
(a) Closed to all animals for the whole year	965	7.5
(b) Closed to all animals for part of the year	60	.5
(c) Open to all animals for the whole year	4,501	34.9
(d) Open to all animals except browsers for the whole year	7,074	54.9
(e) Open to all animals except browsers for part of the year	280	2.2
	12,880*	100.0

*Excludes 2 square miles submerged in the Bhandardara Lake.

44. The area open to grazing by horned cattle throughout the year was 11,575 square miles or 89.8 per cent.

45. The total number of animals admitted to graze was 20,60,107 against 21,76,903 in the preceding year. The figures are however hypothetical as correct figures have not been available in some cases from the village officers in the Central Circle. Of the cattle admitted 17,80,176 were horned cattle, 2,55,910 sheep and goats and 24,021 others.

46. The decrease in the number of animals grazed has mainly occurred in the Southern Circle the reason furnished being that the villagers there are now accustomed to take out permits thereby affording an opportunity for a more accurate account.

IV—Other Offences.

47. There was an increase of 430 cases under the head, the North Eastern Circle, Central Circle and Southern Circle being responsible for the increase mainly the first, which has contributed for an increase of 385 cases.

48. Two hundred and seventy cases of the year were taken to court. Out of 635 cases (270 new and 365 old) 240 cases were decided in favour of and 8 against the Department. The percentage of successful cases was 96.67.

49. During the year 22,311 cases were disposed of under section 68 of the Indian Forest Act of which 298 cases were let off with warning.

50. The amount of compensation recovered during the year was Rs. 1,76,201 or 7.9 per case against 8.3 per case in the previous year.

(4) PROTECTION AGAINST INJURIES FROM NATURAL CAUSES.

(a) Vegetable Pests.

51. Creepers, climbers and bamboos were cut as usual by subordinates, or through contractors or paid labour.

52. *Lantana*.—*Lantana* continued to increase in the forests of Poona, Satara and Belgaum Divisions. In the Satara Division experiment was carried out at 4 places for the eradication of *lantana* by *Sodium Fluosilicate* at a cost of Rs. 347 provided by the Collector of Satara. The experiment however was not a complete success due to the untimely rains. It will be repeated in 1947-48.

53. *Loranthus*.—This is now recognized as a serious pest in most of the Teak plantations of Western Division Kanara as well as in some plantations of Kanara Eastern and Northern Divisions. Mr. Davidson's treatment referred to in the last year's Administration Report was in progress and the results are being watched.

54. *Prickly-pear* though appearing in some places of Dharwar-Bijapur Division, has not caused mentionable damage.

(b) Animal Pest.

55. Elephant, bison, monkey, cheetal, barking-deer, wild pig, porcupine, rat and hare continued to cause damage as usual to the plantations in almost all Divisions. The damage caused by monkeys and bison was appreciable at the time, though it may not have really serious effect on the future of the plantations. Porcupine can, however, wipe out acres of effort in the first year of a plantation. Attempts were made in Western Division Kanara to destroy porcupines by granting rewards. Rs. 20 were granted as reward for killing porcupines. In the plantations that were raised on Agri-silvi system the porcupine was controlled by the 'Kumri-walas' upto the time of harvest.

(c) Insect Pest.

56. Teak defoliators, root borers and parasites did make their annual appearance in the North Thana, Panch Mahals Divisions and Surat Sub-Division but there was no serious damage. There was very serious defoliation of teak right throughout Kanara at the end of the monsoon.

57. Some damage was caused by insects to the young seedlings grown in the Agri-silvi Babul plantation raised in Karanji Kuran in East Khandesh Division.

58. In Western Division Kanara the damage caused by Ravlook cricket (*Brachytrypes achatinus*) was extensive particularly in the casuarina nurseries of Chitakula and Kasarkod. In Chitakula the extent of damage was nearly 50 per cent. while the Kasarkod nurseries suffered seriously. An experiment was tried with 4 lbs. of agricide 2 which was mixed with the soil to a depth of about 3 to 4 inches in 1,000 square feet of nursery beds and seedlings were then transplanted therein. There was no noticeable diminution in the damage by cricket.

59. Unbarked junglewood logs, particularly Matti (*Terminalia tomentosa*), Kindal (*Terminalia paniculata*) and Nandi (*Lagerstroemia lanceolata*) were found to be attacked by borers in Northern Division Kanara, both in the Sale Depots and in jungles.

60. The Entomologist from Dehra Dun visited Dandeli, Hattikeri and Kodibag Depots and the casuarina plantations in Western Division Kanara in order to study the insect pests and to prescribe preventive methods.

(d) *Frost and Erosion.*

61. There was no damage from frost or cyclone during the year. Soil erosion is however a problem, especially in arid parts, and this is being met with by Post-War Reconstruction Scheme 57.

CHAPTER III.

Silviculture.

(1) SYSTEM OF MANAGEMENT.

62. The area in charge of the Forest Department aggregates 10,719 square miles of which 7,401 square miles or 69.00 per cent. are organized under various Silvicultural systems as detailed below :—

Silvicultural system.	Area Sq. miles.	Percentage.
1	2	3
1. Clearfelling	3,073	28.7
2. Improvement felling	386	3.6
3. Coppice with standards	1,294	12.1
4. Improvement cum felling	54	0.5
5. Selection cum Improvement	551	5.1
6. Selection	399	3.7
7. Uniform	331	3.1
8. Simple coppice	299	2.8
9. Others	1,014	9.4
Total under Silvicultural System ...	7,401	69.0
Unorganized ...	3,318	31.0
	10,719	100.0

(2) GENERAL PROGRESS OF REGENERATION AND AFFORESTATION.

(A) MAINLY NATURAL.

63. The total area under natural regeneration was 82,136 acres, of which 17,693 acres was under concentrated regeneration and 64,443 acres coppice against 58,925 and 66,855 acres respectively of the previous year.

(ii) Concentrated.

64. Artificial regeneration was carried out as usual to supplement natural reproduction by planting of teak stumps and by dibbling seeds of species like Babul (*Acacia arabica*) Khair (*Acacia catechu*), Sissoo (*Dalbergia sissoo*), Dhavda (*Anogeissus latifolia*), Tiwas (*Ouginia dalbergioides*) Sissum (*Dalbergia latifolia*), Bijasal (*Pterocarpus marsupium*), Ain (*Terminalia tomentosa*), Shiwan (*Gmelina arborea*) Kaju (*Anacardium occidentale*), Nim (*Melia indica*), Chinch (*Tamarindus indica*), Anjan (*Hardwickia binata*), Mango (*Mangifera indica*), Sandal (*Santalum album*), and Tugli (*Albizia anara*). Teak seed was also sown in patches in some coupes. Sandal was sown under bushes in East Khandesh, while in Dharwar-Bijapur Division it was sown with Cassia and other host plants. In coupe 67-IV-A of Khanapur Range 9 patches 200' x 200' were prepared and plant of *Eucalyptus citreodora* were raised. The results of these patches are encouraging.

(ii) Not Concentrated.

65. Natural regeneration from coppice and self sown seedlings was satisfactory throughout.

66. Natural regeneration in some parts of Periodic Block I of the Yellapur-Mundgod High Forest Working Plan is most promising. Particularly worthy of note is Compartment 19 of Block XIII, part of periodic Block I of Felling Series I. The objects of the plan are here being fully realized and study of this area leads to very strong doubts whether the very large expenditure on wide-spread teak plantations, many of which appear to be of a quality inferior to that of the forest that they replaced, are not a mistake. The obstacle in the way of extending the areas under natural regeneration to High Forest is the lack of trained staff. The skill required for this work amounts to a real art.

(b) Mainly Artificial.

67. The areas artificially regenerated are as shown below :—

Circle.	Division.	Locality.	Area under artificial regeneration.	Species planted.
1	2	3	4	5
			A. G.	
North Eastern Circle.	East Nasik ...	.....	35 13½	Teak and Junglewood.
	West Nasik ...	.....	143 28	Do.
	East Khandesh ...	.....	35 1	Do.
Central Circle.	Belgaum ...	XXVII—12 to 14	80 0	Jungle wood.
		XXXVIII—13 to 14	50 0	Do.
	Kolaba ...	T. P. F. S. X—22 XV—23 & 24 XIV—23	8 20	Casuarina.
		T. P. F. S. VIII—21 to 22 IX—24 & 25	167 0	Soft woods.
Southern Circle.	Northern Division, Kanara.	Bhagwati High Forest Working Plan ...	100 0	Teak 6' × 6'.
		N. D. Kanara High Forest Series I to VII ...	238 0	Teak 9' × 9'.
		Gund Working Plan ...	50 0	Teak 6' × 6' and 9' × 9'.
	Western Division, Kanara.	Ramanguli Ankola High Forest Working Plan ...	165 0	Teak 9' × 9'.
		Arbait Slopes Working Plan ...	30 0	Teak 9' × 9'.
		Soppinohalli High Forest Working Plan ...	5 0	Teak 9' × 9'.
		Kalinadi Slopes Working Plan ...	21 0	Teak 9' × 9'.
	F. S. I, 11 III-11 ...	58 0	Casuarina.	
		Teak and other species ...	1,120 2½	
		Casuarina ...	66 20	
	Grand Total	1,186 22½		

68. Casuarina seedlings were planted in Ankola and Kumta Ranges in Coupes III-18 and VII-A.1. In a total area of 58 acres of Felling Series E-11 and Felling Series-III-11 or the revised Working Plan for the casuarina plantations, 8 months old plants, raised in wet nurseries, were planted.

69. Three varieties of Acacia seed of Australian origin was tried in coupe No. 64 of Block IV-A of the Khanapur Range of Belgaum Division. Though the germination was good there were no survivals, probably due to heavy rain in the locality.

(c) *Agri-silviculture.*

70. In Panch Mahals Division planting of Babul (*Acacia arabica*), Khair (*Acacia catechu*) and Sadada (*Terminalia tomentosa*) was tried in 482 acres 32 gunthas on Agri-silvi system, and the results achieved compared very favourably with the Plantations.

71. In Southern Circle 16 teak regeneration areas in Western Division Kanara aggregating 361 acres were taken up for planting under the Agri-cum-forestry methods.

72. The following areas were also regenerated on Agri-silvi system :—

East Nasik Division	...	...	1,350-0	acres.
East Khandesh Division	...	...	792-36	"
West Khandesh Sub-Division	...	...	2,199-0	"
Poona Division	...	...	992-20	"
Kolaba Division	...	...	3,263-12	"
Satara Division	...	...	714-24	"
Belgaum Division	...	...	1,180-0	"
			10,492-12	"

(d) *Afforestation.*

73. With a view to increasing area under casuarina plantations an area of 27 acres of accretion of sand bank in the Honavar Taluka bordering the sea to the west of the present casuarina plantations was surveyed at a cost of Rs. 57.

74. The afforestation work in Hire-Holdlur Survey Nos. 41, 42, 50 and 54 in Bagalkot Range was continued. Jungle wood species such as Neem (*Melia indica*) Hulda (*Pongamia glabra*), Tugli (*Albizia amara*) etc., were sown, but the soil being too rocky the regeneration work has not come upto the mark.

75. The rehabilitation of denuded areas in Badami and Bagalkot Ranges by the method of contour trenching and bunding was continued. The total area of all these operations was 90 acres and the cost was Rs. 1,500.

76. No extension was carried out during the year in connection with the work commenced in 1939 under the Gradoni system in Poona and Satara Divisions. In the Kolaba Division an area of 41 acres from Kopar-Wagholi village in protected forest adjoining the Alibag-Dharamtar Road was taken up for contour trenching, bunding and gully plugging. This area which is about 8 miles from Alibag,

was fenced with a live hedge of *Euphorbia nerifolia*. Seeds of Teak and various junglewood species viz. Babul Shivan, Palas, Parjambul, Khair, Apta, Awali, Bhoma, Nim, Sawar, Tarwad, Karanj, Medsing, Casuarina, Mango and also of grass were sown. The results were encouraging.

(3) TREE PLANTING IN FOREST AREAS.

77. The 4 plots already granted in Sirsi-Siddapur Range in the Southern Circle have been well grown with fruit trees. In addition to 30 acres granted to 23 persons in Karwar, Ankola, Kunta and Bhatkal Ranges last year, 7 acres were leased this year to 4 persons for growing fruit trees. The Kumri Marathas of Kamargao (Tirwal) in the Kadra Range cultivated forest areas on rotational system in 146 acres to grow 'Ragi'. Seeds and plants from nurseries were supplied to members of the public according to their requirements.

(4) HELP RENDERED BY FOREST DEPARTMENT TO ASSOCIATIONS, AGRICULTURISTS AND OTHERS IN TREE PLANTING.

78. All possible help and encouragement was given to the villagers in tree planting in their private holdings. However the general tendency appeared to be one of depleting such holdings of the existing tree growth rather than conserving or increasing it by fresh planting. The main reason for this attitude of the public is the high prices obtainable for timber and firewood. This can only be remedied by the proposed legislation for control over private forests and land, which is already before the Government.

(5) TENDING OF GROWING STOCK.

79. Cultural operations such as weeding, mulching, cleaning, cutting of climbers and thinnings were generally carried out in accordance with the prescriptions of the Working Plans. Girdling of inferior junglewood trees overtopping valuable species was also done. A beginning was made in Northern Division Kanara to have cultural operations on more intensive scale in valuable teak areas.

80. The scheme of tending operations in Series XI-A Nagzari Valley in lieu of creating new plantations was in operation during April and May 1946. It has been decided since that these operations are not useful and that plantations should again be undertaken.

81. In Southern Circle a start was made with the task of getting the plantations back into good condition. The grant for the work was received rather late in the season and could not be fully utilized owing to the very late sanction to the necessary increase in the daily wage rates but the expenditure under this head was Rs. 91,838 as compared with Rs. 44,108 in the previous year. There is still much lee-way to make up and it is estimated that it will take another five years to get all the teak plantations free from overgrowing bamboos and junglewoods.

82. The cost on departmental thinnings and thinnings sold standing amounted to Rs. 31,610, the resultant material poles etc. having been sold for the Rs. 1,23,000. Rs. 102 were spent on marking for the thinnings to be carried out in the following year while Rs. 1,650 were realized from the material extracted from past thinnings. The cost on other cultural operations was Rs. 5,944. Material from some of the thinnings had remained unsold at the end of the year.

CHAPTER IV.

Exploitation.

(1) SYSTEM OF MANAGEMENT.

83. The various systems of management and the areas under each are given in Chapter III under the caption "System of Management".

(i) MAJOR FOREST PRODUCE.

Timber, Fuel and Sandalwood.

84. In all divisions of the North Western, North Eastern and of Central Circles, excepting the Belgaum Division in Central Circle, all major produce including firewood and charcoal was extracted through the agency of purchasers by the sale of standing coupes, departmental operations being restricted to the supply to WIMCO of match woods i.e. Sawar (*Bombax malabaricum*) etc.

85. In Belgaum Division Departmental operations were undertaken to meet both the civil and the military supplies of firewood and charcoal.

86. In the Southern Circle timber from high forests was brought to depots through contractors to meet the demands from Railways, Public Works Department, Government Departments, and other essential services and also for sale to public. Some pole coupes were sold standing on the condition of delivering firewood to prescribed markets while some others were exploited for stocking departmental firewood depots. About 50 per cent. of the coupes in Kalghatgi and Dharwar Ranges were withheld from sale as there were large quantities of firewood on hand, only one advance coupe being sold particularly to meet the firewood requirements of Kalghatgi town. In Eastern Division and Western Division Kanara Sawar was extracted from regular exploitation areas for supply to WIMCO while in other Divisions it was extracted along with other softwoods from convenient localities outside the prescriptions of the Working Plans. In Northern Division Kanara Sawar and other matchwoods form part of the concession of the Indian Plywood Manufacturing Company. Different hardwoods were also supplied to firms for making articles used in textile mills.

87. Timber rejected in the jungles in Southern Circle as unsuitable for extraction to sale depots was sold by tenders and realized high prices.

88. Charcoal was manufactured departmentally in Western Division Kanara by pit kiln method. This was an experiment undertaken with a view to proving that traditional skilled labour is not required for manufacture by this method. In this the experiment was successful.

89. During the year production of 2,11,328 tons of firewood and 1,04,375 tons of charcoal from forest coupes was planned and produced.

90. Several contractors in the Southern Circle have purchased surplus vehicles fitted with winches from army depots for use in their forest works. These have proved successful for use as light skidders and also for loading heavy logs on to trucks. With the labour shortage continuing and likely to be a permanent feature and with the shortage of food for heavy draught animals, the department and its contractors must turn more and more to such labour saving devices.

91. Sandalwood was extracted departmentally in Northern Division Kanara, Eastern Division Kanara, Dharwar-Bijapur and Belgaum Divisions for sale at the central depots in Dharwar, Belgaum and Khanapur.

92. Most of the silvicultural operations such as thinnings were carried out departmentally.

93. Hed and Kalam were pre-empted in all the Circles to meet the requirements of Bobbin Manufacturers in the Province. This supply was controlled by the Textile Commissioner, Bombay. The total quantity supplied during the year was 80 tons.

94. Due to the unexpected cessation of the War in September 1945 no fresh indents were received from the supply Department for supply of war materials either from the fresh stocks or from the stocks in their upcountry storage depots. The following materials were however delivered during the year against supply orders received from the Timber Directorate during the previous years :—

Teak logs	...	...	...	...	458·11	tons.
Junglewood logs	...	...	...	...	100·78	„
Sleepers M. G. (Nos. 29410)	...	...	...	...	882·30	„
						1,441·19

95. The following timber was also supplied to the Railways during the year :—

Teak logs	...	...	...	...	3370·29
Junglewood logs	...	...	...	...	927·55
Teak ballies (Nos. 135)	...	...	...	...	3·38
						4301·32

96. As the demand for timber for defence purposes had ceased and its requirement for other purposes was very limited, the supply Department suggested the taking over of all their upcountry timber storage depots by the local Governments. This Department accordingly agreed on behalf of the Bombay Government to take over all the Supply Department timber stocks with the exception of the stocks in the Bombay Port and Ghorpuri Depots. The timber taken over consisted of both sound and unsound timber. This enabled the Department to control whole of the timber production in the Province. The terms for the transfer of the timber were that while the sound material was to be paid for by this Department at the Supply Department schedule rates in deferred instalments in two years the unsound stocks were to be disposed of by this Department without any percentage charges and the sale proceeds credited to the supply Department. Any issues to Supply Department thereafter were to be made at the Supply Department schedule rates plus 17½ per cent. The stocks thus taken over from the Supply Department consisted of 15,685 tons of sound timber valued at Rs. 20,38,298 and 2,672 tons of unsound timber. Of the latter 372 tons were sold during the year and the value credited to the Supply Department. The payment of the first instalment on account of the sound timber taken over which was due to be made in 1946-47 was deferred to 1947-48.

97. On advice of the Supply Department the department entered into a direct contract with the administration of Southern Group of the Sleeper Pool Committee of the Indian Railways for supply of 20,200 B. G. sleepers and 120270 M. G. sleepers in Teak and Matti (*Terminalia tomentosa*) valued at Rs. 10,17,661. Out of these 19207 B. G. and 97353 M. G. sleepers were supplied to the end of the year. In addition the Railways were supplied with 3,370.29 tons of teak and 927.65 tons of junglewood logs and 135 (Nos.). Teak ballies against the purchase orders of the Government of India.

98. The Bombay Forest Department has undertaken to supply 10,000 tons of timber during 1947-48 against the requirements of housing schemes and 2,000 tons teak logs against the Public Works Department constructional works.

(ii) MINOR FOREST PRODUCE.

99. Minor Forest Produce was, as usual, either farmed out or sold on permits.

100. Harda fruit (*Terminalia chabula*) in Rajur Range was disposed of in accordance with the instructions of Government which are to the effect that the right to collect harda in Government Forests in this Range should be sold to village panchayats at such a price that Government gets no more than a thousand rupees for the sale of harda collection in the whole of Rajur Range.

101. The areas of grass kurans leased to the Military Farm Departments during the year were :—

8,062 acres and 25½ gunthas in Poona Division.

14,264 acres and 24 gunthas in West Khandesh Division.

2,713 acres and 15¾ gunthas in West Nasik Division.

102. Grass and Grazing realized Rs. 3,16,077 during the year against Rs. 3,73,185 the previous year.

103. The South Indian Shellac Company Limited carried on the work of tapping brood lac during the year in Sirsi-Siddapur Range but has not yet made a success of it.

104. The concession of free distribution of Tali palms (*Corypha umbraculifera*) to deserving people in certain coastal talukas in Kanara was continued.

105. Cane was allowed free in Kanara for domestic use and for cottage industries.

(2) AGENCY OF EXPLOITATION.

(a) Departmental Agency.

106. The following is a comparative statement of major and minor forest produce extracted departmentally during the years 1946-47 and 1945-46 :—

Major forest produce.

Minor forest produce.

Creek.	Year.	Timber		Total C.C. in thousands.	Sandalwood value.		Bamboo value.		Grass and grazing value.		Other produce value.		Total value.	Remarks.
		in thousands.	in C.C.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.				
1	2	3	4	5	6	7	8	9	10	11				
North Western Circle	1946-47	206	314	550	.....	4	...	...	4	...	...	...	4	* Estimated value of the produce extracted and not the sale proceeds of material disposed of during the year.
	1945-46	116	1,206	1,622	.....	203	39,909	408	10,520	...	...	...	408	
North Eastern Circle	1946-47	112	586	728	1,300	62	...	6,040	6,102	...	...	...	6,040	
	1945-46	167	1,059	1,226	790	8	...	25,164	25,172	...	...	...	25,164	
Central Circle	1946-47	353	3,843	4,106	85,184*	...	...	430	430	...	...	...	430	
	1945-46	768	9,261	10,029	87,803*	227	...	28	255	...	...	...	28	
Southern Circle	1946-47	2,522	1,928	4,450	5,92,522*	4	...	56	54	...	...	...	56	
	1945-46	3,301	1,878	8,182	2,43,737*	15	...	8	23	...	...	...	8	
Total B. P.	1946-47	3,223	6,671	9,894	6,79,096	70	...	6,520	6,500	...	...	...	6,520	
	1945-46	4,655	16,404	21,059	3,32,330	453	39,909	25,008	63,976	...	...	...	25,008	
Balance	...	1,432	9,533	11,165	3,16,766	383	29,000	19,088	58,280	...	...	...	19,088	

107. The decrease under timber occurs in all the Circles and is due to stoppage of works for War timber production.

108. The decrease under fuel also occurs in all the Circles, the reason being the curtailment of departmental operations due to large firewood stocks on hand from the previous years operations and to less demand for firewood from the Military.

109. Sandalwood shows an increase owing partly to extraction of more material during the year and partly to better prices realized and bigger trees received from Haliyal Range in the Southern Circle.

110. Departmental extraction of bamboos depends on special circumstances necessitating the department to undertake such extractions.

111. The decrease in the revenue under "Other Minor Forest Produce" is due mainly to non-collection of Karanj fruits departmentally and less supply of test-pins from small branchwood in North Eastern Circle, which items alone fetched Rs. 25,008 during the previous year.

(a) Timber Depots.

112. The following table compares average prices obtained for timber during 1946-47 and 1945-46 in the Dandeli Depot, which is the principal timber Depot in the Province:—

Kind of Timber.	Average rate per khandy of 12.50 cts.	
	1946-47.	1945-46.
	Rs. a. p.	Rs. a. p.
Bark (<i>Protium grandis</i>) logs	150 8 0	190 1 2
Bark bottoms	86 6 5	142 5 8
Bark scantlings	131 13 3	133 4 2
Bark planks	201 4 9	205 11 4
Gummi (<i>Andropogon latifolius</i>)	50 1 7	.....
Wood (<i>Ternstroemia tomentosa</i>)	53 3 1	.....
Wood (<i>Laquearia in hirtellata</i>)	58 14 9	.....
Wood (<i>Picea carpatensis</i>)	53 4 11	.....
Other Dunglewoods	43 11 0	.....
	Each.	Each.
Associated sleepers	8 15 0	7 2 5

113. The above rates for teak were obtained in the first sale held in May 1946. It was not sold in the 2nd sale which was held in December 1946. The prices for other timbers are those obtained in the second sales.

114. Prices obtained in 1946-47 were a little less than those of the previous year, but nearly four times than those of pre-war years. This is mainly due to the shortage created by lack of transport.

115. The temporary depots at Gangawali and Bhatkal opened during the war in Western Division Kanara were closed down.

(b) *Fuel Depots.*

116. The fuel depots at Malcompeth (Mahableshwar) and Panchgani in the Central Circle were run by contractors. So also the six firewood depots in Western Division Kanara in the Southern Circle were run through contractors. The various departmental railside and roadside depots opened in previous years for stocking firewood, continued during the year.

117. The firewood depot at Matheran was run departmentally. In all 9,159 maunds of firewood was sold for Rs. 18,609, the expenditure incurred and the surplus being Rs. 16,415 and Rs. 2,194 respectively.

118. The firewood depot at Gokak was also worked departmentally during the year. An attempt was made to run the depot through the Gokak Municipality, which however did not agree to undertake the work. The depot showed a net loss of Rs. 12,890 in spite of the fact that the selling rate raised from Rs. 0-3-6 to 0-6-0 per maund (28 lbs.). This depot is maintained by the Department with the special intent of stopping the illicit traffic in firewood in the Gokak town. The total quantity of firewood sold from the depot was 61,293 maunds. The depot at Castle Rock was also run departmentally as the attempt to work it through a co-operative society did not materialize. The total quantity of firewood sold here was 3,999 maunds at Rs. 0-9-0 per maund (82·28 lbs.).

119. The same ceiling rates as were fixed by the Additional Director of Civil Supplies (Charcoal and Firewood) were continued during 1946-47. The Bombay Firewood and Charcoal Trade Licensing Orders, 1944, remained in force.

3. PURCHASERS.

120. The following table compares the outturn of major and minor forest produce removed by consumers and purchasers during the years 1946-47 and 1945-46 :—

Circle.	Year.	Major forest produce.				Minor forest produce.			
		Timber.		Fuel.		Bamboos value.	Grass and Grazing value.	Other produce value.	Total value.
		Cubic feet in thousands.	Value.	Cubic feet in thousands.	Value.				
			Rs.		Rs.	Rs.	Rs.	Rs.	Rs.
North Western	.. 1946-47	.. 2,643	96,67,513	11,136	16,743	57,117	27,218	47,681	1,32,916
	.. 1945-46	.. 2,950	63,04,644	10,304	12,032	50,900	40,115	16,336	1,07,351
North Eastern	.. 1946-47	.. 1,474	20,84,848	3,497	2,77,870	36,656	2,27,255	1,32,917	3,96,828
	.. 1945-46	.. 1,072	10,99,751	4,341	2,43,227	28,307	2,33,996	1,05,682	3,07,985
Central	.. 1946-47	.. 485	12,56,294	3,649	2,96,400	28,116	61,219	54,032	1,43,367
	.. 1945-46	.. 990	13,70,940	6,602	2,60,046	25,753	59,553	46,404	1,31,710
Southern	.. 1946-47	.. 910	4,25,551	1,945	4,61,304	94,366	386	61,345	1,58,097
	.. 1945-46	.. 789	1,50,593	1,457	1,26,155	1,04,221	552	51,462	1,56,235
	.. 1946-47	.. 5,512	1,34,34,206	22,197	10,52,407	2,16,255	3,16,978	2,95,975	8,28,308
Total	.. 1945-46	.. 5,801	89,25,928	22,704	6,41,460	2,09,181	3,34,216	2,19,884	7,63,281
Difference between 1946-47 and 1945-46.		-289	+45,08,278	-507	+4,10,947	+7,074	-18,138	+76,091	+65,027

121. The increases in the quantities of timber in North Eastern Circle and Southern Circle, which were due to greater number of coupes sold standing than in the previous year, were counterbalanced by the decreases in the other two Circles viz. the North Western Circle and Central Circle resulting in a decrease in total output of the Province. The increase in the value both for timber and fuel is due to better prices realized for the coupes in all the Circles owing to keen demand.

122. The sale of certain regeneration areas in Northern Division Kanara to purchasers on condition of their doing clearfelling and burning at their own cost and on paying to Government lump sums for the privilege of removing certain timbers from clearfelled areas has also contributed to the increase in value.

123. The decrease in the total quantity of fuel was due to less number of coupes sold in the Central Circle. The value of fuel shows an increase in all the circles due to better prices obtained for coupes and to the standing sales of Western Division Kanara coupes this year.

124. Though the value realized for bamboos in the Southern Circle decreased particularly due to difficulty in securing wagons from Dandeli and sidings of the Ahawar-Dandeli Railway, there was an increase in the total provincial value of bamboos as there was better demand for bamboos in the remaining three Circles.

125. The decrease in the value of grass and grazing was due to low prices realized in Panch Mahals, North and East Thanas, East Nasik and in East Khandesh Divisions, and also due to the fact that no grass was supplied to the Military and the Milk Commissioner, Bombay, from Panch Mahals Division.

126. The high prices realized for some of the Minor Forest Produce, especially for Apta Tembarni leaves, Halmuddi dhup and Hulgai seed and the realization of the value of the 1945-46 Tumri leaves farm of Panch Mahals during the year, account for the increase in the value under other produce.

127. The following is a comparative statement of the quantity and value of forest produce removed by right and privilege holders and free grantees during the year 1946-47 and 1945-46 :-

Cards.

C. Coarses
grains.

Timber

Feed.

F. Free
grainlets.

Quantity in
cubic feet
in thou-
sands.

Value.

Quantity in
cubic feet
in thou-
sands.

Value.

Barbons
value.

Grass and
crazing
value.

Other
produce
value.

Total
value.

Rs.

Rs.

Rs.

Rs.

Rs.

Rs.

North Western

...

C.

4

2,000

8,535

1,74,700

70,187

6,07,985

79,040

7,56,262

North Eastern

...

C.

...

...

10,961

3,30,220

...

8,52,100

89,943

9,42,133

Central

...

C.

35

7,000

3,756

1,11,475

829

1,58,361

56,500

5,13,639

Southern

...

C.

95

20,087

4,507

15,035

3,722

4,00,155

11,552

1,15,869

Total for 1946-47

...

C.

134

29,687

31,659

6,73,439

11,738

23,17,681

2,37,481

26,29,603

Total for 1945-46

...

C.

122

25,750

20,207

3,91,080

79,557

21,70,681

2,08,478

27,67,746

Total

...

F

14

21,228

7

384

1,085

45

9,277

10,107

128. The quantity of forest produce removed by concessionists and free grantees depends on their needs and on the durability of the material removed.

129. There are no rights other than those of way. Privileges allowed under settlements and other rules and orders were freely enjoyed by the villagers as usual.

130. Free grants of timber and other forest produce were made for reconstruction of houses damaged by fire and for repairs to buildings, instructional classes to new settlers and aboriginal tribes to erect huts, etc. Hard murum, metal, etc. were also removed by the Public Works Department during the year.

131. In order to cope with the heavy work on account of the free grants, sanctioned on a large scale to the victims in the communal riots in the Kolaba District, extra staff consisting of one Ranger and four Foresters was entertained for marking trees and for giving out the grants.

5. OUTTURN AND SOURCES OF FOREST PRODUCE.

132. The following table compares the outturn from all sources of produce for the years 1946-47 and 1945-46 :—

Major forest produce.

Minor forest produce.

Circle.	Year.	Major forest produce.					Minor forest produce.			
		Timber Cubic feet in thou- sands.	Fuel Cubic feet in thou- sands.	Sandalwood value.	Bamboos value.	Grass and Grazing value.	Other produce value.	Rs.	Rs.	Rs.
North Western	...	1946-47	2,877	20,215	.....	1,27,626	6,34,253	1,26,721		
	...	1945-46	3,373	19,712	.....	1,21,968	8,14,445	1,06,005		
North Eastern	...	1946-47	1,623	23,015	1,390	36,860	10,79,445	2,31,522		
	...	1945-46	1,247	10,090	790	33,761	9,81,220	1,86,710		
Central	...	1946-47	897	11,258	85,184	29,182	5,10,979	1,32,104		
	...	1945-46	1,802	19,110	87,803	26,874	5,57,318	1,08,937		
Southern	...	1946-47	3,549	8,442	5,92,522	98,670	4,00,541	75,289		
	...	1945-46	4,200	10,570	2,43,737	1,07,670	5,00,800	62,495		
Total ...		1946-47	8,946	62,930	6,79,096	2,92,347	26,34,218	5,65,636		
1945-46		10,622	59,482	3,32,330	2,90,276	28,53,832	4,63,247			
Difference between 1946-47 and 1945-46.			-1,676	+3,448	+3,46,766	+2,071	-2,19,634	+1,02,389		

Forest Labour and Wages.

135. The annual forest operations such as exploitation of forests, construction of buildings, roads, etc., provide employment for a considerable number of people. The following table gives an estimate of the labour employed on forest works and remuneration paid to them during the year. For comparison the rates for 1945-46 and the pre-war rates for 1938-39 are given :-

<i>Circle.</i>	<i>Agency of employment.</i>	<i>Number of labour units.</i>	<i>Aggregate amount earned.</i>	<i>Remarks.</i>
			Rs.	
North Western Circle	Departmental	2,67,229	1,95,940	
	Contractors	24,77,235	39,69,610	
North Eastern Circle	Departmental	1,25,799	1,31,875	
	Contractors	15,67,863	21,42,339	
Central Circle	Departmental	1,53,161	1,53,153	
	Contractors	2,37,376	29,30,874	
Southern Circle	Departmental	3,74,661	5,13,947	
	Contractors	19,46,299	14,88,217	
Total for 1946-47	Departmental	9,22,841	9,94,915	Average 1-08 Rs. a unit.
	Contractors	63,27,883	99,58,040	Average 1-53 Rs. a unit.
Total for 1945-46	Departmental	9,14,148	8,32,689	Average 14-5 As. a unit.
	Contractors	87,79,276	89,86,874	Average 14-7 As. a unit.
Total for 1938-39	Departmental	6,29,992	2,37,636	Average 6-04 As. a unit.
	Contractors	76,49,659	27,69,546	Average 5-8 As. a unit.

134. The conditions regarding the payment of minimum wage rates to labourers by forest contractors continued to be in force during the year in the three Thana, Kolaba and West Khandesh Divisions and in the Peint Mahal of the Nasik District.

135. The Special Officer appointed for the protection of the aboriginal and hill tribes in the Thana, Kolaba and Nasik Districts and the forest subordinates kept check over the payments made by the contractors to their labour with reference to their contract terms, and properly dealt with any infringements of those terms. In spite of such protective measures the Katkadies in Thana were stirred by the Communist movement during the year and demanded still higher wage rates from the contractors with the result the contract works suffered a lot. The rates had therefore to be further increased for insertion in all the future contract agreements.

136. The expenditure on the Management of the State forests amounted to Rs. 66,60,906.

CHAPTER V.

(i) Forest Engineering Branch.

57. During the year under report the Forest Engineering Division was converted into an Engineering Circle. The new Circle came into being with effect from the 24th October 1946, the date on which the Conservator's post was filled. A post has been created to meet the Post War requirements regarding better communications to facilitate extraction and removal of timber and other produce from remote and inaccessible forest areas, better and adequate housing and water supply for the staff living in forests, introduction of latest methods of timber extraction, haulage, etc., by mechanical appliances, establishment of a Saw mill Division, etc.

58. The Engineering Circle, however, carried out its usual routine works hitherto entrusted to the Forest Engineering Division. Survey and alignment of tracks in Nazzari valley Series XI-A 19 and in Compartments II and I VA (Bergi) were completed. In addition survey of other roads and preparation of plans and estimates for roads, bridges and buildings were also carried out. Estimates for (1) Cement concreting Dandeli Depot roads (2) water supply scheme at Dandeli (3) Resurfacing Dandeli Depot roads prepared by the Forest Engineering Circle were sanctioned by Government during the year.

59. Hitherto the Forest Engineering branch was responsible for the efficient maintenance of the Saw mill machinery, while the Divisional Forest Officer, N. D., was responsible for the working of the mills, the outturn and labour problem. In order to do away with the dual control and to bring the mills under a single controlling authority it was proposed that the complete working of the mills should also vest in the Forest Engineering Circle and that an independent Saw mill Division should be formed under the charge of the Saw mill Engineer, an arrangement that would prove more efficient. The creation of a Saw mill Division has been sanctioned by Government.

(ii) Mechanical Skidding.

The mechanical log skidding was carried out as usual and about 1,086 timber was hauled during the year with the help of the skidlers against a total haulage of 1,759.14 tons of the previous year. The lower outturn is due to shortening of the work. The extraction costs including overhead charges were Rs. 19.7 per ton against Rs. 18.12.9 in the preceding year. The increase is due to the greater length of haul over a difficult country and by the higher rates of pay and allowances to the staff concerned.

(iii) Saw Mills.

(A) Outturn.

The following table compares the output of 1946-47 and 1945-46 of Government Saw mills at Dandeli in Kanara Northern Division, Kirwatti, in the Eastern Division and Londa in Belgaum Division. The total output of Dandeli mills was 1,98,077 cubic feet against 2,29,595 cubic feet in the preceding year, that of Kirwatti mill 21,452 cubic feet and of the Londa Saw mill 1,00,000 cubic feet against 34,411 cubic feet and 72,241 cubic feet respectively of the preceding year.

Dandeli mills.

Description of outturn.	Year.	Dandeli mills.				Total Cubic feet.	Remarks.
		Rohy Fowler unit Cubic feet.	Lancashire unit Cubic feet.	Kirwaki mill Cubic feet.	Londa mill Cubic feet.		
1	2	3	4	5	6	7	8
Teak M. G. Sleepers	1946-47	17,509	34,284	10,630	.....	62,423	
Teak sawn material	1946-47	53,863	85,135	10,785	381	1,50,164	
Jungle wood sawn material	1946-47	161	7,125	37	66,880	74,203	
Total	..	71,533	1,26,544	21,452	67,261	2,86,790	
Teak M. G. Sleepers	1945-46	23,296	9,807	14,722	.....	47,884	
Teak sawn material	1945-46	76,335	1,15,519	10,680	.....	2,11,643	
Jungle wood sawn material	1945-46	155	4,424	.....	72,211	76,820	
Total	1945-46	99,785	1,29,810	34,411	72,241	3,36,247	

(B) Dandeli Mills.

142. The Dandeli mills cut a larger quantity of teak M. G. sleepers and junglewood sawn material during the year but a lesser quantity of teak sawn material. The total outturn dropped by 31.5 thousands cft. for which the reasons are:—

(a) Complete closure of the Fowler unit from 1st December 1946 and of the Lancashire and Fowler Robey units for about 63 days on account of necessary urgent repairs and boiler inspection, and

(b) Cutting of a larger quantity of hardwoods into small sized material as blanks for textile firms. These blanks are mostly less than 2" in section and their sawing results in heavy wastage of wood and gives a decreased outturn per unit of time. The work is however of great importance for the industry of the Province.

A The improvements effected during the year were:—

(a) Automatic log haul, by which device, the logs are hauled from the point where they are dumped by the trucks to a position from which they are rolled on to the breaking down bench. This cuts out the toil of carrying the logs on men's shoulders.

(b) Dutch oven—for burning sawdust to heat the boiler of the Lancashire Engine. Utilizable wood is thus saved from being burnt as fuel.

(c) Passing-out bay, which affords cover and shade for inspection. Hitherto such inspection was done in the sun, rain and mud.

(C) Kirwatti Saw Mill.

143. This unit with its home made benches, which were installed when the mill was newly erected for meeting war time demand of sawn timber, had never been efficient and was therefore closed down on 22nd January 1947 when a contractor's mill was available to undertake sawing of the timber stocks there.

144. Decrease in the outturn as compared with that of the previous year was due to the mill undertaking the sawing of very small sizes from poor quality timber.

(D) Londa Saw Mill.

145. This mill like the Kirwatti one was installed to meet the war supplies. Due to the sawing of purely junglewoods and to the long leads over which the logs and mill pieces had to be transported to the mill site, this mill had never been able to show good financial results. The running of the mill was therefore considered uneconomic and proposals for its closing down were submitted to Government.

(E) Private Saw Mill.

146. The services of four private saw mills in the Southern Circle were utilized to supplement departmental sawn timber outturn by sawing departmental logs in them. The work done by these mills on behalf of the department was as follows:—

Particulars.	Private	Private	Private	Private
	saw mill at Vincholi.	saw mill at Alnawar.	saw mill at Kolikeri.	saw mill at Dharwar.
	Cft.	Cft.	Cft.	Cft.
Teak M. G. Sleepers	6,000	15,814	2,114	.....
Teak sawn material	5,676	16,909	14,535	13,197
Junglewood sawn material	.....	.....	.....	.....
Total outturn	11,676	32,723	16,549	13,197

Particulars.	Private saw mill at Dandeli.	Private saw mill at Abwar.	Private saw mill at Kohkeri.	Private saw mill at Dandeli.
	Rs.	Rs.	Rs.	Rs.
2. Amount realized by sale of sawn material and sleepers or estimated revenue.	55,828	2,59,570	1,20,206	1,12,897
3. Expenditure to Government on raw material supplied at mill site.	17,160	42,331	37,991	14,743
4. Payment to saw mill owners for sawing etc.	18,700	37,612	29,552	15,998
Total expenditure	35,860	79,943	57,553	35,484
Nett profit to Government	59,736	1,79,627	62,653	77,413

147. The financial results of the Dandeli mills are compared below:—

Item.	Dandeli Mills.		
	1946-47.	1945-46.	Difference.
	Rs.	Rs.	Rs.
Revenue	24,74,005	12,65,713	+ 12,08,292
Expenditure	16,46,479	19,16,764	- 2,70,285
Nett profit	8,27,526	2,48,949	+ 5,78,577
Capital at charge	22,99,055	19,97,218	+ 3,01,837
Percentage of nett profit on capital	35.94	24.7	

148. The main reason for the sudden rise in the nett profits is due to (1) a larger quantity of sawn material sold during the year than during the previous year and (2) the stocks left over from the previous year having fetched an average sale price of Rs. 8.95 per cubic feet against last year's production cost of Rs. 4.97 per cubic feet.

149. The financial results of the remaining two mills, viz. those at Kirwatti and Londa are compared below :—

Item.	Kirwatti mill.			Londa mill.		
	1946-47	1945-46	Difference	1946-47	1945-46	Difference
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue ...	1,51,024	2,14,969	-63,945	4,17,210	2,42,872	+1,74,338
Expenditure ...	1,26,600	1,49,416	-22,816	4,61,887	2,57,377	+2,04,510
Nett profit (+) or loss (-) ...	24,424	-65,553	+41,129	-44,677	-14,505	+30,172
Capital at charge ...	87,124	46,334	+40,890	2,52,891	1,09,013	+1,43,878
Percentage of nett profit (+) or loss (-) on capital	28.03	141.79		-17.6	-13.3	

150. The total value of Dead stock and stores supplied to the saw mills during the year under report as compared with that of the previous year was as follows :—

Saw mill	Value of Dead stock		Value of stores	
	1946-47	1945-46	1946-47	1945-46
	Rs.	Rs.	Rs.	Rs.
Dandeli ...	509	128	32,776	20,243
Kirwatti ...	24	90	5,504	4,834
Londa ...	272	5	3,971	1,425
	805	223	42,251	26,502

(c) *Seasoning Kils at Dandeli.*

151. During the year 2,770 cubic feet of sawn material of various species was kiln-seasoned, most of the material thus treated being blanks for picker arms, bobbins and other articles for textile mills. Small quantities of hardwoods were seasoned for making camp furniture and drawing boards for the Working Plans Divisions and for articles for the Lord Ray Museum, Poona. This kiln was designed for experimental work. Estimates for larger capacity kilns for seasoning mainly hardwoods with a view to popularizing them were completed by the Engineering branch towards the close of the year.

(v) *Preservative Treatment.*

152. A creosoting tank fabricated at Belgaum was installed at Dandeli for test purposes. Test runs were accordingly taken for treatment of transmission poles and sleepers and necessary data compiled from the actual test.

(vi) *Fire-fighting Equipment.*

153. The need for an organized fire service at Dandeli to protect the valuable plant and stocks has long been felt and for this reason a trailer pump was secured and the mill hands were organized and trained to man the pump. One of the departmental trucks was undergoing conversion into a self contained fire-fighter complete with tank and power take off from the truck engine for pumping.

CHAPTER VI.

FINANCIAL RESULTS.

154. The revenue and expenditure of the year compared with those of the past year and the average of the past quinquennium (1941-42 to 1945-46) are as follows:—

Circle.	Year	Expenditure.					Surplus or Deficit.	Percentage of surplus to revenue.
		Revenue.	Conservancy and Works.	Establishment.	Post War Reconstruction and Development.	Total.		
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
North Western Circle ...	1946-47 ...	1,04,43,234	5,18,378	8,32,141	53,126	14,03,645	90,39,589	86.6
	1945-46 ...	78,87,195	14,87,249	7,14,093	.....	22,61,342	56,85,853	72.1
	Average ...	80,80,344	25,96,714	8,12,176	.....	34,08,890	46,71,454	57.8
North Eastern Circle ...	1946-47 ...	33,27,220	2,53,309	7,35,789	6,596	9,95,694	23,31,526	17.1
	1945-46 ...	32,04,219	8,81,484	6,22,579	.....	15,04,063	17,00,156	49.5
	Average ...	20,96,637	5,30,822	5,06,296	.....	10,37,118	10,59,519	50.5
Central Circle ...	1946-47 ...	35,72,056	16,69,584	7,93,809	62,195	25,25,498	10,46,558	28.7
	1945-46 ...	46,65,642	24,39,177	637,970	.....	30,77,147	15,88,495	34.1
	Average ...	35,99,905	15,39,997	6,59,124	.....	21,99,121	14,00,784	38.8
Southern Circle ...	1946-47 ...	86,42,863	43,28,874	9,14,529	*...*	52,43,403	33,99,460	39.3
	1945-46 ...	87,35,594	58,30,423	7,08,802	.....	65,39,225	21,96,369	25.1
	Average ...	62,20,728	34,00,631	5,82,993	.....	39,83,534	22,37,194	25.9
General Direction ...	1946-47 ...	12,922	35,268	2,59,794	.....	2,86,062	-2,73,140	.....
	1945-46 ...	1,928	33,521	2,02,325	.....	2,35,946	-2,34,018	.....
	Average ...	4,032	33,784	1,67,458	.....	2,01,242	-1,97,210	.....
Utilization Circle ...	1946-47 ...	37	297	75,189	10,474	85,960	-85,923	.....
	1945-46 ...	280	743	1,03,017	.....	1,03,760	-1,03,471	.....
	Average ...	3,745	864	68,134	.....	68,998	-65,253	.....
Forest Engineering ...	1946-47 ...	38,815	1,18,849	71,670	.....	1,90,519	-1,51,704	.....
	1945-46 ...	4,689	1,78,716	78,777	.....	2,57,493	-2,52,804	.....
	Average ...	3,577	1,11,181	61,284	.....	1,72,465	-1,68,888	.....
Silviculturist ...	1946-47 ...	97	8,735	39,341	.....	48,976	-47,979	.....
	1945-46 ...	329	7,153	36,135	.....	43,288	-42,959	.....
	Average ...	214	3,523	29,122	.....	32,645	-32,431	.....
Additional Director of Civil Supplies.	1946-47 ...	9,06,590	.....	3,359	.....	3,359	+9,03,231	99.6
	1945-46 ...	.....	.....	1,899	.....	1,899	-1,899	.....
	Average ...	.....	.....	1,899	.....	1,899	-1,899	.....
Total ...	1946-47 ...	2,69,43,834	69,33,294	37,16,621	1,32,301	1,97,82,216	1,61,61,618	59.9
	1945-46 ...	2,44,99,885	1,08,58,466	31,05,697	.....	1,39,64,165	1,05,35,722	43.0
	Average ...	2,00,09,182	82,17,516	28,88,396	.....	1,11,05,912	89,03,270	44.5
Difference between 1946-47 and		+24,43,949	-39,25,172	+6,10,924	+1,32,301	-31,81,947	+56,25,896	.....

155. Compared with the figures of the previous year the revenue for the year increased by Rs. 24,43,949 while the expenditure decreased by Rs. 31,81,947. The surplus during the year was Rs. 1,61,61,618 against Rs. 1,05,35,722 of the last year.

156. The increase in revenue is due to better prices realized in standing sale and for major forest produce extracted departmentally.

157. Reduction in the number of departmental operations for production of timber and also of firewood and charcoal, accounts for the decrease in figures under "Conservancy and Works" while the increase under "Establishment" is accounted for by the temporary increases sanctioned to the staff by way of interim relief, bonus, enhanced Dearness Allowance and Cost of Living Allowance and by payment of compensation to subordinates in Southern Circle whose property was burnt by fire.

158. The analysis of revenue and expenditure shows that of the receipts 8.42 per cent. comprises revenue from major produce, 7.4 per cent. from minor produce and 8.4 from other sources. Similarly 66.5 per cent. of the expenditure was incurred on extension, constitution, improvement and exploitation and 33.5 per cent. on administrative, executive and protective charges.

159. The outstandings on account of revenue at the commencement and close of the year were :—

Circle.	On 1st April 1946.		On 31st March 1947.	
	Rs.	Rs.	Rs.	Rs.
North Western	5,72,623	7,22,595
North Eastern	1,09,535	1,20,747
Central	1,96,476	7,23,636
Southern	7,73,974	11,53,957
		Total	16,52,608	27,20,985

CHAPTER VII.

ADMINISTRATION.

160. The post of the Chief Conservator of Forests was held by Mr. W. C. Walsh from 1st April 1946 to 20th April 1946 and from 17th October 1946 to 31st March 1947, and by Mr. J. Petty, O.B.E., M.C., from 21st April 1946 to 16th October 1946.

161. As the existing territorial Circles were too large to permit efficient management by three Conservators of Forests, Government sanctioned the creation of an extra territorial Circle for a period of one year in the first instance, and the redistribution of the previous charges, as a result of which the Belgaum Division of the Southern Circle was transferred to the Central Circle, and in place of the old Northern Circle, two new Circles were formed, the North Western Circle comprising the Panch Mahals Division, the three Thana Divisions, and the Surat Sub-Division, and the North Eastern Circle comprising the East and West Nasik Divisions of the old Northern Circle, and the East and West Khandesh Divisions and the West Khandesh Sub-Division of the old Central Circle. Mr. E. K. Kotwal assumed charge of the post of Conservator of Forests, North Western Circle, on 16th January 1947, but the Division pertaining to that Circle were actually handed over to him on 1st February 1947.

162. The Circle charges were held by the following Officers :—

Circle.	Name of Officer.	From	To
Northern	Mr. E. S. B. Tavener	1st April 1946	4th April 1946
	.. E. T. C. Vas	5th April 1946	31st January 1947
North Western	.. E. K. Kotwal	16th January 1947	31st March 1947
North Eastern	.. E. T. C. Vas	1st February 1947	31st March 1947
Central	.. R. F. Sandeman	1st April 1946	5th April 1947
	.. E. S. B. Tavener	5th April 1946	31st March 1947
Southern	.. J. Walker	1st April 1946	31st March 1947
Utilization	.. R. J. Smith, M.B.E.	1st April 1946	3rd April 1946
	.. R. F. Sandeman	4th April 1946	31st March 1947
Planning	.. J. Petty, O.B.E., M.C.	1st April 1946	20th April 1946
Development	.. T. K. Mirchandani, M.B.E.	1st April 1946	23rd October 1946
Forest Engineering	.. T. K. Mirchandani, M.B.E.	24th October 1946	31st March 1947

163. The usual transfers of officers took place according to exigencies of administration.

164. The temporary post of Special Conservator of Forests, Planning, was terminated from 20th April 1946 (afternoon).

165. Mr. T. K. Mirchandani, M.B.E., Conservator of Forests, Development, was deputed to the United States of America and Canada for a period of 4 months for training in Saw Mills, etc., and was allowed, on his return journey, to visit the United Kingdom for about a week. On return to India he was appointed to the temporary post of Conservator of Forests, Forest Engineering Circle, from 24th October 1947, the temporary post of Conservator of Forests, Development, being terminated from the same date. Mr. Mirchandani has submitted a report on his American and English Tour, which is under print.

166. Mr. N. S. Kaikini, Deputy Conservator of Forests, who was deputed to the United Kingdom for training in European Forestry at the Imperial Forestry Institute, Oxford, during the previous year, completed the course and returned to India in September 1946.

167. Messrs. F. A. B. Coelho and J. V. Karamehandani were sent to Dehra Dun in February 1947 for Research Demonstration Course, for a period of eight days.

168. A temporary post of Director of Forest Training was created by Government and Mr. Y. R. Divekar, retired Deputy Conservator of Forests, was appointed to hold it from 1st August 1946. The report submitted by Mr. Divekar of Forest Training on the question of training Forest Officers, Rangers, Foresters and Guards in the Bombay Province, is under the consideration of Government.

169. The temporary post of utilization Conservator of Forests, Bombay Province, which was sanctioned in 1942 for the purpose of dealing with the supply of timber for war purposes, was terminated, and a new temporary post of Conservator of Forests, Research and Utilization Circle, was created in its place, and Mr. S. N. Kesareodi was appointed to hold it from 1st April 1947.

170. A temporary post of Divisional Forest Officer, Kanara Working Plans, was created in B. F. S. Class I, and Mr. S. R. Umbarje, Assistant Conservator of Forests, was appointed to hold from 1st November 1946.

*171.

*172.

*173.

174. Messrs. I. M. Qureshi, V. M. Wagle, C. M. Joshi, S. P. Jadhav, S. M. Wagle and S. H. Korhalli successfully completed the Superior Forest Service Course and on their return from Dehra Dun in April 1947 were appointed as Assistant Conservators of Forests on probation for two years.

*175.

176. During the year, Messrs. S. M. Kalbag, M. A. Rashid, R. B. Kale and S. A. Mandkur were selected for 1947-49 Superior Forest Service Course at Dehra Dun.

*177.

*178.

*179.

*180.

SUBORDINATE AND CLERICAL SERVICE.

Training of Rangers.

181. the six students sent to the Ranger's Course for 1945-47 at Dehra Dun completed their training, and all passed with higher standard certificate.

182. Nine candidates were selected for the Rangers' Course 1947-49. Three of these resigned but two were soon replaced. The number of students who joined at Dehra Dun in April 1947 is thus 8.

183. Seven candidates were selected for the newly created temporary posts of Deputy Rangers.

Training of Foresters.

184. The Forest Class at Mandvi was held as usual for a continuous period of six months. Of the 26 students (8 from North Eastern Circle, 5 from Central Circle, 8 from North Western Circle, 2 from Dangs and 3 from Indian States), 22 passed and four failed in the final examination.

185. The Foresters Training Class at Haliyal in the Southern Circle was conducted as usual by the Range Forest Officer, Haliyal, in addition to his own duties. All the 10 students selected for training passed the final examination.

186. One Ranger and 3 Foresters were deputed for training in the Bunding Class at Bijapur.

187. As a large number of surveyors were required under the Forest Department Post War Reconstruction Schemes, a Surveyors' Training Class was opened in the Southern Circle as in the last year. The class was opened from 1st September 1946 to train 25 candidates under a trained Ranger of the Working Plan Division, but only 18 candidates were available. They were given theoretical and practical training for two months in Belgaum, and then in the Kanara High Forests for one month, after which they were appointed as temporary Surveyors from 1st December 1946.

188. Of the 13 demobilised soldiers selected for training as forest guards as mentioned in the last year's report, 5 were discharged as being unfit and the rest after training were selected for guards' posts.

189. The staff, both protective and clerical, has again put in a very hard year's work in difficult circumstances.

190. The following table gives the casualties and punishments during the year:—

Description.	North Western Circle.	North Eastern Circle.	Central Circle.	Southern Circle.	Total, 1946-47.	Total, 1945-46.
Retirements ..	18	10	13	15	56	57
Deaths ..	5	6	11	5	27	24
Resignations ..	18	2	3	5	28	35
Demissions ..	.....	12	4	5	21	25
Dismissals, Removals.	3	7	3	1	14	18
Prosecutions ..	.....	5	2	.	8	2
Total ...	44	42	36	32	154	162

191. The health of the staff was fair except in places which are notorious for their bad climate. Attacks of Malaria were frequent amongst the staff connected with the Working Plans Division who had to live in tents and shelters, during the working season and this hampered the progress of work a good deal. To combat Malaria, D.D.T. spraying was done in many places by the parties deputed by the Public Health Department. So far the parties did not reach all the outlying settlements. A full report of places where D.D.T. operations are necessary has been sent to the Public Health Department. Government have sanctioned the appointment of a Medical Officer to be attached to the Working Plans Division in Southern Circle during the working season, in order that the work may go on without hindrance.

Measures to Suppress Corruption.

192. All applications against forest subordinates were promptly enquired into, and the subordinates found guilty were suitably dealt with. The usual control over expenditure and piece work rates was exercised by the Divisional Forest Officers and their Assistants.

193. One Ranger and one Forester from the Central Circle, who were prosecuted on a charge of defalcation of Government money in connection with charcoal manufacture, were acquitted by the Resident Magistrate, Karad.

194. One officiating Forester in the Belgaum Division was suspended from 7th December 1916 as the result of allegations of taking bribe. The Police Department is investigating this case.

195. Two guards in the West Nasik Division, one guard in the East Khandesh Division and two clerks in West Khandesh Division were prosecuted during the year by the Anti-corruption Branch. The prosecution against the guard in the East Khandesh Division resulted in conviction. The cases against the remaining subordinates are still pending.

196. One Round Guard and three guards including two temporary guards in the Dharwar-Bijapur Division had joined hands in arranging illicit cutting of oak trees for sale to a merchant for Rs. 180. The loss caused to Government was recovered, the temporary guards were removed from service, the permanent guards were reduced and the Round guard was removed from his charge.

197. The Head Clerk in the Dharwar-Bijapur Division was charged by the State under Section 406 I. P. C. The case is still pending in the court.

Inspections and Tours.

198. The Honourable Minister for Agriculture and Forests toured in the Southern Circle in November and December 1946 and inspected the Dandeli hills, the labour colony and the skidding operations in the Nagzari valley. He also saw typical forests and plantations and attended to various requests and grievances of the people.

199. The Honourable Ministers for Backward Class and Fisheries and for Reconstruction and Excise also toured in the Southern Circle in December 1946 and January 1947.

200. The Chief Conservator of Forests, the Utilization Conservator of Forests and the Silviculturist toured in all the Circles. The Chief Conservator of Forests while on tour inspected the office of the Conservator of Forests, Southern Circle, in July 1947.

201. The Conservators of Forests in the course of their tours inspected all Divisional Forest Offices in their charges except the Working Plan Division Office in the Southern Circle and the Divisional Forest Office, West Khandesh in North Eastern Circle, and no serious irregularities were noticed.

202. Some of the Divisional Offices were inspected by the Audit staff of the Accountant General, Bombay.

Civil Suits.

*203.

204. The suit filed by Mr. Apte for the price of teak trees sold from his lands has not yet been decided.

205. The appeal filed by Government against the decree of Rs. 2,486 ordered by the court in civil suit No. 258 is still pending.

206. The second appeal No. 363 of 1944 preferred by Mr. A. R. Yellapurkar was decided by the High Court of Bombay. The High Court partly allowed the appeal, modified the decree passed by the lower appellate court, and directed that defendant should pay the plaintiff Rs. 100,2 and dismissed the rest of plaintiff's claims and ordered that the plaintiff should pay the defendant three-fourths of his costs throughout.

*207.

Land Revenue Administration.

208. The Divisional Forest Officer, West Nasik, continued to function as Assistant Collector and Excise Superintendent of Peint Mahal. The Revenue Administration of the unsurveyed villages and the Excise Administration of the Akrani Mahal remained in the hands of the Forest Department.

Forest Village Panchayats.

209. The four Panchayats in Kanara Northern Division and 13 in Kanara Western Division continued to function as usual. It is reported that no plantation or improvement works of any sort have been done by the Panchayats in Ankola and Kumta Talukas in Kanara Western Division.

Relations between the Forest and other Departments.

210. These continued to be cordial.

CHAPTER VIII.

GENERAL.

Forest Policy.

211. During the year the Chief Conservator of Forests presented his note on "Postwar Forest Policy for the Bombay Province", which was generally approved by Government in their Revenue Department No. 2502-D 45, dated 10th June 1947. Except for this there was no remarkable change in the forest policy followed hitherto.

Financial Results.

212. The financial results continued to be quite satisfactory. The revenue, expenditure and surplus for the year were Rs. 269,43,834, Rs. 107,82,216 and Rs. 161,61,618 respectively, the corresponding figures for the previous year being Rs. 244,99,885, Rs. 139,64,163 and Rs. 105,35,722. Causes for the improved results have been furnished in Chapter VI of the report.

TIMBER.

Firewood and Charcoal.

213. Auction sales in Government depots were held twice during the year—once in April-May and again in November-December. The quantities offered for sale were restricted by (1) the possibility of Railway transport for the sold material, and (2) Government's ban on the sales of teak in the latter half of the year. No teak wood either sawn or round was sold in December 1946 sales, but all the material was reserved for the house building scheme and other essential works.

214. The prices of firewood and charcoal continued to be controlled under the firewood and charcoal trade licensing order, 1944. The Divisional Forest Officers continued to be licensing authorities in connection with the producers licenses.

Transport.

215. There was no general improvement in the transport by rail. There was acute shortage of wagons on the Tapti Valley Railway and the stocks of timber, firewood etc. of the West Khandesh contractors remained unmoved. Even in Southern Circle in spite of very conservative calculations of the possibility of movement of timber by rail, it has taken 6 months more than the time scheduled to get the sold material exported.

Alnawar-Dandeli Railway.

216. The total earnings of the Alnawar-Dandeli Railway during the year of report were Rs. 69,537 and the expenditure was Rs. 1,44,388, the result being a net loss of Rs. 74,851, equivalent to 107.6 per cent. of the gross receipts. Accounts of the last year had shown a profit of Rs. 45,134 for the Railway or Rs. 38.6 per cent. on the gross receipts, which were Rs. 1,16,886 against an expenditure amounting to Rs. 71,752. One of the reasons for the deficit of

Rs. 74,851 intimated by the Financial Advisor and Chief Accounts Officer, M. & S. M. Railway Company, is the debit of Rs. 43,441 raised in the Railway accounts in adjustment of an excess credit given in 1945-46. Expenditure on structural works, on carriage and wagon stocks, on traffic Department, and on miscellaneous expenses increased by Rs. 73,700, while the earning from goods traffic dropped by Rs. 59,300. This drop in earnings is largely accounted for by the cessation of despatch orders and by the increasing shortage of railway wagons.

Hunting and Shooting.

217. The revenue realised from game licenses was Rs. 7,712 against Rs. 9,761 in the previous year.

218. 8 free licenses to hunt and shoot in Reserved forests were issued to bonafide residents in Kanara.

219. The details of animals killed in Government forests are given below :—

All India Serial No.	Animal.	North Western Circle.	North Eastern Circle.	Central Circle.	Southern Circle.	Total.	Average of 5 years 1941-42 to 1945-46.
1a	Tiger	1	...	...	5	6	10
1b	Tigress	2	4	1	6	13	6
2	Panther	12	6	7	6	31	37
3	Wild cat	...	...	...	...	...	...
6	Hyena	1	...	...	...	1	...
7	Wild dog	...	...	...	...	...	2
14	Sloth bear	...	...	...	...	...	4
15	Wild elephant	...	...	4	...	4	6
17	Bison	...	...	3	2	5	11
29	Blue bull	2	130	...	...	132	108
30	Bhekar (4 horned antelope).	...	...	...	...	...	1
32	Chinkara	...	...	...	...	...	...
33	Barking deer	...	1	1	...	2	...
37	Sambhar	2	...	2	3	7	6
38	Cheetal	...	...	1	3	4	9
43	Crocodile	...	1	...	...	1	...
46	Wildpig	9	1000 (b)	...	1608 (a)	2617	1750
Total		29	1142	19	1633	2823	...

(a) Killed by Gun clubs. (b) 999 of these killed by Gun clubs.

220. A man-eating tiger was killed in Siddapur Taluka on 2nd November 1945 in Muttigi village forest by the Police party deputed specially for the purpose.

Increase or Decrease in the Number of Wild Animals and Birds.

221. There was no noticeable increase or decrease in the animals or bird population in the forests of the Province except in the Southern Circle where there appeared to be a considerable increase in the number of elephants, bison, tiger, panther and wild birds in the forests of Virnoli and Kulgi ranges, which were closed to shooting for eventual inclusion in the proposed game sanctuary. The proposal for the game sanctuary has since been dropped.

Gun Clubs.

222. All the Gun clubs were active during the year. 8 new clubs were formed in Southern Circle during the year. It may be said that the formation of additional clubs is due to the realisation of the benefits derived from them, such as elimination of night watch, decrease in the area of fallow lands and decrease in the damage to crops. An exhibit illustrating crop protection by Gun clubs was displayed at the District Agricultural and Cattle Show at Ranibinnur which was opened by the Honourable Minister (Agriculture and Forests).

Food Supplies.

223. The distribution of rationed articles of food stuffs to forest labour in Southern Circle continued as during the last year. The Director of Civil Supplies issued instructions for supply of sugar to the personnel of Government Saw mills and depot at Dandeli at 1 lb. per head per month as against 5 ounces a month allowed in the past. A representation has been made that the Foresters and Guards who have an even more strenuous life than the mill and depot workers be granted sugar on the factory scale. Owing to the shortage of milk, the subordinates of the Working Plans Divisions utilised 28 cases of 48 tins each of condensed milk.

224. Grain shops at Dahisar and Sawta were run as in the last year and Nagli and paddy were distributed to forest settlers. A grain bank was also started at Panakhed and the aboriginal tribes took full advantage of the shop.

Grow More Food Campaign.

225. With a view to helping the grow more food campaign forest areas were leased out on easy eksali terms for growing food crops. Varieties of crops such as rice, nachana, wari, jwari, bajri, navni, saswi, gurell, kulti, groundnuts, wheat, channa, udid kodra, makka, til, mug, bhadul, mor, tur etc., were raised by the cultivators in these areas, and the extent of crops grown in each of the districts were as follows :—

District.	Area. Acres.	Seers.
(1) Kanara	377	1,32,320
(2) Belgaum	1,165	1,89,895
(3) Bijapur	16	932
(4) Satara	715	1,00,080
(5) Kolaba	3,263	2,37,280
(6) Poona	1,016	27,440
(7) West Khandesh	4,982	1,47,440
(8) East Khaneesh	793	94,560
(9) Panch Mahals	4,521	3,79,414
(10) Thana	2,778	8,58,170
(11) Nasik	1,429	15,49,720
(12) Surat	227	36,050
Total	21,282	37,53,301

Inforest Settlements.

226. A new settlement comprising an area of 170 acres of forest land was opened at Kakadual in West Khandesh Sub-Division, thus bringing the total area under settlements in North Eastern Circle to 38,417 acres. The amount of assessment recovered during the year was Rs. 29,876 in North Eastern Circle and Rs. 19,873 in North Western Circle, the amount outstanding at the close of the year being Rs. 5,784.

227. The general condition of the settlers was good. Quinine was distributed to them to the extent of the supplies available. There were no epidemics in the settlements during the year.

228. Government have decided to transfer the 21 settlements bordering the pillar line in East Khandesh Division to the control of the Revenue Department.

Village Water Supply Scheme.

229. Wells in the inforest settlements at Ramkheda and Birola in the East Nasik Division and Lakadya Hanuman and Shahana in the West Khandesh Sub-Division were under construction from the special grants made available to this Department under "39-Public Health - Village Water Supply".

Famine Fodder.

230. There being no fodder scarcity in any part, no orders were received for the supply of grass etc. to scarcity areas. No grass operations for supply to the Military were also undertaken. Grass was however stored under contracts to the extent of 38,96,584 lbs. Of this the 1,21,745 lbs. collected at Khandbara and 7,74,839 lbs. at Nawapur were spoiled by rain and were ordered to be disposed of.

Malhi Teak in Thana.

231. A sum of Rs. 1,17,519-8-0 was paid by way of bonus to the District Local Board, Thana as against Rs. 70,642 of the previous year.

232. One meeting of the Forest Standing Committee for the Thana District was held on 3rd December 1946 at Thana.

District Rural Development Boards and Their Sub-Committees.

233. The Rural Development Board was reconstituted during the year. The Forest Advisory Sub-Committees and the Fodder and Grazing Sub-Committees in every district were dissolved and in their place the District Rural Development Boards, which were newly constituted, were instructed to appoint a Sub-Committee in their district, the Sub-Committees being named as "Forest and Grazing Committees."

234. All the meetings of the District Rural Development Boards were attended by the Divisional Forest Officers who are the official members of the Boards.

Village Uplift.

235. The Forest Officers took keen interest in rural development and gave advice to the villagers on the principles of hygiene and cleanliness. The advantages of fire protection, rotational grazing and forest conservancy were also explained to them. They were also advised to store manure in pits, keep their villages, wells, roads, etc., as clean as possible. The importance of education, drinking filtered water, bunding their fields was brought home to them. They were also educated

on tree planting and were supplied with seeds and seedlings for tree planting. Village approach roads were cleaned and got repaired wherever possible from the villagers.

236. The concession of free distribution of Tali palms (*Corypha umbroculifera*) to deserving poor people in certain coastal talukas in Kanara was continued. Removal of cane was allowed free for domestic use and cottage industries.

237. The Cottage Hospitals at Dehalli and Kāvatti did not function during the year. Government have sanctioned the opening of 4 new forest dispensaries at Gund. Katur. Katgul and Geraappa in Kanara, which had not however started to the close of the year.

238. Regarding Telegeri village, which is designed to be a model village in Yellapur Taluka in Kanara, a total area of 95.50 acres of strip round the village was clear felled and burnt. Regrowth has yet to be felled and burnt. Once the area is completely cleared by the department, it will have to be maintained clear for the next five years, so that it may afford protection to crops and yield good fodder grass for cattle.

Rotational Grazing Schemes.

239. Improvement and other works were carried out in the areas covered by the four and six pasture schemes according to the prescriptions. The extent of work carried out and the amount spent thereon was as follows:—

Pasture No.	Village.	Area	Contour.		Nalla bunding.	Gully plugging.	Amount.
			Trenching.	Ridging.			
6—Pasture.		Acres.	Rft.	Rft.	Cft.	Rft.	Rs.
I-B 8, 14, 20, 26, 32.	Ajnuj	460	...	...	29,277	...	928
I-C 3	Khandala	104	21,312	105	7,695	...	474
I-D 4	Vale	80	...	...	6,450	...	294
II-B 8, 20, 26, 32.	Shirgaon	725	...	...	30,818	...	1,573
II-C 3	Deogaon	280	...	...	14,150	300	713
Sowing seed and refilling trenches						...	122
							4,104
4—Pasture							
I-A 28	Vikhale	317	...	...	21,897	...	1,113
II-A 19	Visapur	215	...	...	15,874	...	531
II-A 23	Visapur	202	...	...	19,759	...	722
III-A 10	Helgaon	163	...	...	9,196	...	375
II-A 19	Nigdi	168	...	...	6,771	...	176
II-B 2	Nigdi	248	...	...	31,927	...	1,292
I-B 2	Bhadale	211	9,948	...	19,856	...	1,865
II-B 2	Rameshwar	243	10,864	...	5,256	...	736
I-B 20, 20, and 11	Hiwre	553	...	...	57,688	...	2,523
II-B 20	Rameshwar Jakhangaon.	237	...	...	11,606	...	514
II-B 31	Jakhangaon	293	...	...	36,222	...	1,670
II-B 29	Visapur Rameshwar	267	...	...	14,344	...	630
III-B 11, 29 and 20.	Nigdi	612	...	...	61,030	...	3,029
Refilling trenches and sowing seed							2,104
			20,812		31,14,790		17,280

240. Two pastures out of the 4 pasture area were exploited during the year realizing Rs. 11,845 by their sale. No area under the 6 pasture scheme was sold as the tree growth in the area due for exploitation was very poor.

241. Three kurans out of the area covered by the proposed Igatpuri Grazing Scheme were sold during the year. A regular rotational grazing scheme for this area is under preparation.

Cattle Breeding Societies.

242. The leases of Pimple and the Gangapuri kurans leased to the Gilligan and Gangapuri Cattle Breeding Farms respectively in East Khandesh Division which were to expire were renewed for a further period of 5 years in each case under Government sanction. The Kandari kuran No. 33 and part of the Sonori kuran No. 13 were sold on condition of supplying grass from them to the Government Dairy Cattle Farm at Jamner.

Telephone Lines.

243. No progress was made by the Telegraphs Department in extending the existing telephone line to Gund and Alnawar for want of materials.

Proposals by the Conservator of Forests (Planning) for Expansion and Reorganisation of the Department.

(1) WOOD DISTILLATION.

The Bombay Wood Distillation.

244. The Company has not been incorporated as yet. The Memorandum of Association, Articles of Association, and the following draft agreements are under the consideration of Government:—

(1) Agreement between Government and the Company relative to the supply of wood to the Company.

(2) Agreement between the Company and the Production Manager.

(3) Agreement between the Company and the United India Agencies—the Managing Agents.

245. The Company has recently asked for an increase in the capital. This matter is also under the consideration of Government.

(2) PROPOSALS FOR STAFF FOR POST-WAR RECONSTRUCTION SCHEMES 54 AND 57.

246. Most of the staff sanctioned by Government for Post-war Reconstruction Scheme 54 was entertained also a few posts required for preliminary work under Post-war Reconstruction Scheme 57.

(3) WIND BRAKES AND SHELTER BELTS.

247. Note drawn up by the Department on "Tree planting by farmers" was approved by Government and its printing in English and regional languages for official use and free distribution was sanctioned.

(4) FOREST BENEVOLENT FUND.

248. In pursuance of the scheme approved by Government, a draft of proposed articles of association and rules of the Bombay Forest Department Benevolent Fund were submitted to Government in October 1945, but no orders were received till the end of the year.

(5) PLYWOOD COMPANIES.

249. Both the Indian Plywood Manufacturing Company and the Karnatak Industrial and Plywood Company have asked for enlarging the scope of the concessions.

250. The question of revising the rates of royalty for the three species which are due for revision owing to the termination of war, is under the consideration of Government.

(6) BRICK KILNS.

251. A battery of 7 kilns was erected at Kumbeli in the Belgaum Division with a view to demonstrating the value of manufacture of charcoal by brick kiln. The kilns were put up as an experiment to produce reliable charcoal. The experiment however, has shown that cost of production of charcoal at Kumbeli is very high, while the quality of charcoal produced is in no way superior to that manufactured by the country kiln.

(7) EXPANSION OF PLANTATIONS.

252. The proposals for extension of the plantations aimed at :—

- (i) making up for the loss caused by the overfellings during the war time ; and
- (ii) growing sufficient timber required to meet the increased demand of the Province, both for industrial and house hold purposes, thus making the Province more or less self-supporting in its post-war requirements of timber, firewood and charcoal.

253. The scheme aimed at a target of about 31,500 acres of plantations annually including about 20,000 acres of softwood plantations.

(8) FORMATION OF THE AFFORESTATION CIRCLE.

254. The proposal was that the improvement and afforestation of denuded areas should be handled by the Land Improvement Organisation with a Conservator of Forests working under the Director of Land Improvement, so that the Chief Conservator of Forests and his staff could devote all their energies to the management of the real forests of the Province. Government however did not approve of this proposal.

(9) RESEARCH AND TRAINING CIRCLE.

255. Proposals in this connection have been sanctioned by Government—*vide* remarks below against Post-war Reconstruction Scheme 59 in this Chapter.

(10) ENGINEERING CIRCLE.

256. Proposals in this connection have been sanctioned by Government—*vide* remarks below against Post-war Reconstruction Scheme 60 in this Chapter.

(11) REDUCTION IN THE SIZE OF THE TERRITORIAL UNITS.

257. Proposals in this connection have been sanctioned by Government—*vide* remarks below against Post-war Reconstruction Scheme 58 in this Chapter.

(12) REORGANISATION OF CONTROL OF FOREST DEPARTMENT.

258. The proposal aimed at reorganisation of the Department on the lines of the Public Works Department or Agriculture. Thus the Chief Conservator of Forests should be the Secretary to Government, Forest Department, assisted by a Deputy Secretary picked from the B. F. S. with about 15 years of service. The Chief Conservator and Secretary to Government would act as an advisor to Government on forest matters. The proposal was not accepted by Government.

(13) REVISED PAY SCALES.

259. Revised pay scales for officers and staff were proposed and it was suggested that a cabinet committee should be appointed to go into the whole subject. The proposal was accepted by Government.

(14) WOODLANDS DIVISION.

260. The proposals consisted of forming a woodlands Division of the Public Works Department to draw up plans for avenue planting and maintenance for each road and canal system. The proposal was dropped by Government.

(15) TREE-DAY.

261. To compensate for the vast amount of tree cutting resorted to during the war time throughout the rural areas, it was suggested that this Province should celebrate every year a "Tree day" during which the economic importance and national value of trees should be stressed by every form of publicity and by demonstration planting in every village, Government compounds, etc. Government have since called for further proposals in this connection.

POST-WAR RECONSTRUCTION SCHEMES.

262. The progress made under the different reconstruction schemes sanctioned for this Department was as follows:—

POST-WAR RECONSTRUCTION SCHEME 54.

Rehabilitation of Forests.

263. The survey of the Panch Mahals forests and collection of data necessary for the revision of the Working Plans for these forests was completed. Survey and collection of data in respect of Thana forests was continued during the year.

Collection of data for the revision of the Working Plan of the East Khandesh forests and survey of Malki and Inam lands in Kolaba District were also completed during the year.

264. Owing to the very heavy programme of work outlined for the Southern Circle, and the necessity to have all the Working Plans revised as early as possible, a second Working Plan Division was sanctioned by Government, which came into existence with effect from 1st November 1946. The new Division was named "Kanara Working Plans Division".

265. The work carried out by the Working Plans, Southern Circle and the Kanara Working Plans Divisions consisted mainly of (1) cent per cent. enumeration of about 12 square miles of Northern Division Kanara high forests, (2) 10 per cent. enumeration of about 79 square miles of Northern Division Kanara High Forests, 66 square miles of the unorganised forests and 53 square miles of the High Forest of Eastern Division Kanara, and 74 square miles of the Kalinadi-Gund-Nersol areas and (3) 5 per cent. enumeration of 58 square miles of the Eastern Division, Kanara unorganised areas and 12 square miles of the Supa High Forest lands. In addition data for volume calculations was collected in 354 different plots measuring 131.6 acres, including cutting and weighment of bamboos therein. Work in connection with the compilation of data required for the revision of the Working Plans and for volume calculations, stock mapping and writing of interim reports was also carried out.

POST-WAR RECONSTRUCTION SCHEME 55—COMMUNICATIONS.

266. Survey and alignment of the roads could not be undertaken as the survey and technical staff recommended for the Forest Engineering Circle, had not been sanctioned till the end of the year. Estimates were however framed for cement concreting the Dandeli Depot Road and for the Dandeli-Tavargatti Road. The estimate for the former which amounts to Rs. 41,087 has been sanctioned by Government, while the estimate of Rs. 1,22,841 for the latter was ready for submission to Government.

267. Repairs to about 71 miles of forest roads in East Khandesh Division were carried out at a cost of Rs. 6,465.

POST-WAR RECONSTRUCTION SCHEME 56—BUILDINGS AND WELLS.

268. Revised lists of buildings and wells have been submitted to Government in view of Government orders to limit the first five year cost to Rs. 11,00,000. The estimate for a draw well at Barchi has been sanctioned by Government.

POST-WAR RECONSTRUCTION SCHEME 57.

Improvement of Denuded Areas.

269. Work in respect of Sangola and Pardi schemes is in progress. A revised scheme for Sangola taluka involving rotational grazing scheme was drawn up and submitted to Government for sanction. Sanction to the scheme for Bulsar taluka was also awaited. Work in respect of Athani taluka was retransferred to this Department from the Land Improvement Department. Pending drawing up of a working scheme for these areas for Government sanction no further works are being carried out in this taluka beyond maintenance of the works already carried out by the Land Improvement Department. Further taluka planning was stopped under Government orders.

270. Work in respect of drawing up schemes for Sholapur Sub-Division, could not be undertaken during the year for want of requisite staff. Survey of the Ahmednagar District was completed and the drawing up of the scheme for the formation of the Ahmednagar Forest Division was in hand. Preliminary survey of the Ratnagiri District was also completed during the year. The work was undertaken in connection with the proposed formation of a forest division in the district.

POST-WAR RECONSTRUCTION SCHEME 58.

Creation of an Extra Territorial Conservators' Circle.

271. As the three existing territorial Circles were considered to be too large to permit of efficient management by three Conservators, an extra territorial Circle was sanctioned by Government as a temporary measure. The new circle and the existing Circles with the redistribution of the existing forest divisions were named as follows :—

Old Circle.	New Circle	Headquarters of the Circle	Divisions.
1. Northern Circle ...	1. North-Western Circle.	Thana ...	1. Panch Mahals. 2. North Thana. 3. East Thana. 4. West Thana. 5. Surat Sub-Division. 6. Working Plans, Northern Circle.
1. Part of Northern Circle.	2. North-Eastern Circle.	Nasik ...	7. East Nasik. 8. West Nasik.
2. Part of Central Circle.	2. North-Eastern Circle.		9. East Khandesh. 10. West Khandesh. 11. West Khandesh Sub-Division.
2. Part of Central Circle.	3. Central Circle. ...	Poona ...	12. Poona. 13. Kolaba. 14. Satara. 15. Working Plans, Central Circle.
3. Part of Southern Circle.	3. Central Circle ...		16. Belgaum.
Part of Southern Circle.	4. Southern Circle.	Dharwar ...	17. Kanara, Northern Division. 18. Kanara, Eastern Division. 19. Kanara, Western Division. 20. Dharwar-Bijapur. 21. Working Plans, Southern Circle. 22. Kanara Working Plans.

272. The newly formed North-Western Circle came into existence with effect from 1st February 1947.

273. For want of accommodation in the existing Government buildings and the present acute difficulty in securing leased accommodation the Headquarter of the North Western Circle was temporarily fixed at Nasik and the office of the Conservator of Forests, Southern Circle, continued at the old Headquarter place viz., Belgaum.

POST-WAR RECONSTRUCTION SCHEME 59.

Forest Research and Training Circle.

274. In order to meet the Post-war requirements in Silviculture, research in grazing, utilisation of forest produce and ancillary subjects a new Research Training Circle was sanctioned by Government which subsequently was redesignated as Research and Utilisation Circle. It incorporated the existing Silvicultural and Utilization Divisions. The Circle however did not come into existence till the end of the year. The new Circle was also to replace the temporary war time creation of the office of the Utilisation Conservator of Forests, Bombay Province. The other posts sanctioned under this Circle have been mentioned in Chapter VII of this report. Early filling in of these posts is necessary without which no progress can be expected in the circle work.

275. A post of the Director of Forest Training was also sanctioned by Government under this Circle which was filled with effect from the 1st August 1946. The post though sanctioned for a period of 6 months in the first instance was subsequently continued further.

POST-WAR RECONSTRUCTION SCHEME 60.

Forest Engineering Circle.

276. As the various Post-war activities demanded the augmentation of the Forest Engineering branch, a new Forest Engineering Circle was sanctioned for the Province as a temporary measure. This Circle came into existence with effect from the 24th October 1946. Besides the Post-war Reconstruction Schemes 55 (Communications) and 56 (Buildings and Wells) the Engineering Circle will have to tackle several very important problems connected with forest engineering. Immediately in hand are some of the vital problems such as extension and remodeling of the Dandeli Saw Mills, water supply at Dandeli, cheap and portable huts for the housing of the labour hospital at Dandeli, labour chawls at Dandeli, preservative treatment of woods, fire fighting schemes for Dandeli and fire station, steam water tank etc. Regarding progress of works under the Post-war Reconstruction Schemes 55 and 56, much headway could not be made as the technical staff recommended for the Engineering Circle had not received Government sanction till the end of the year.

E. T. C. Vas,
Chief Conservator of Forests,
Province of Bombay.

The remarks of the Commissioners on the Circle Administration Reports are as follows :—

Review of the Commissioner, Northern Division, on the Forest Administration Report of the N. W. C. for the year 1946-47.

No. F.O.R. 47/47.

Ahmedabad, 25th November 1947

1. The gross revenue and surplus of the year amounted to Rs. 104.43 and 90.39 lacs respectively, an increase of Rs. 16.95 lacs and Rs. 28.89 lacs respectively, over the previous year's figures. The increase is attributed to (1) good prices, due to brisk demand and a good market for timber and for minor forest produce, required for the development of new small scale industries. The land assessment recovered for forest cultivation during the year under report was Rs. 19,873.

2. *Katkaris*.—The Katkaris, possibly inspired by communist propaganda, demanded higher rates of daily wages from the contractors, whose work suffered in consequence. The revised wage rates will be incorporated in the agreements for the next season. Cases of under-payment were dealt with under the coupe agreement. The Katkaris, however, continue to be exploited by the contractors, and the Special Welfare Officer is considering a scheme for settling them on the land, with a view to improving their general condition.

3. Fire protection during the year under review was satisfactory, the area burnt being 23 square miles less than in the previous year. The decrease is said to be due mainly to better fire protection by the forest subordinates and the clearance of under-growth on the fire lines, disposal of grass from closed coupes, and control over the burning of fire kilns by the contractors in the coupes. The number of forest offences shows an increase of 115 over last year.

4. 6,473 cases were compounded during the year, 64 cases (40 of the year under report and 24 old ones) being committed for court trial. The bulk of the cases are thus being settled out of court. In 1095 cases the offenders were not detected. The previous year's figure of such cases was 1,790.

5. Out of 64 cases taken to the criminal courts, 49 were decided, and 15 were pending decision at the end of the year.

6. There was no demand from the Military Department for timber and fuel during the year under report.

7. The fuel outturn during the year increased to 83,000 c. ft. due to the sale of more coupes in all the Divisions, except Panch Mahals. The income from the minor forest produce was 1.32 lacs, as against 1.19 lacs during the previous year.

8. The Forest Advisory Committees held very few meetings. No attention is also seen to have been paid to village improvement work.

General Remarks.

9. The year's working has on the whole been satisfactory. The Forest Department will have to concentrate on long term planning, partly with a view to make good as soon as possible the losses, due to the heavy exploitation of forest reserves

during the war years, and partly for achieving the conservation and management of these valuable national assets in their charge on the most efficient and up-to-date lines. With the creation of a new territorial Conservator's Circle, it is hoped that the execution of the Post-war schemes mentioned in Chapter X will be generally speeded up.

(Signed) U. M. MIRCHANDANI,
Commissioner, Northern Division.

The Chief Conservator of Forests, Bombay Province, Poona.

No. F.O.R. 0/4-XXI of 1947-48.
Poona, September 6th, 1947.

The Chief Conservator of Forests,
Province of Bombay.

Subject.—Forest Administration Reports of the Central Circle and North Eastern Circle for the year 1946-47.

I fully endorse the remarks made by the Conservator of Forests, Central Circle, in paragraph 13 of his foreword and by the Conservator of Forests, North Eastern Circle, in paragraph 22 of his foreword. Owing to the excessive demands that were made by the late war and had to be met at any cost, the forest estate has been grievously drained and requires to be urgently rehabilitated to ensure adequate supplies for the higher standard of living of the Post-war era. Additional plantation is essential. As pointed out by the Conservator of Forests, the present efforts towards this end are hardly touching the fringe and their pace is also too slow.

They require to be greatly accelerated and highly intensified in all branches of forest administration.

The forest administration on the whole was very satisfactory and the co-operation of Forest Officers in the general administration was excellent and helpful.

(Signed) H. K. CHAINANI,
Commissioner, Central Division.

Remarks on the Annual Forest Administration Report for the Southern Circle, for the year 1946-47.

No. FOR. PRB.

Office of the Commissioner, Southern Division :
Belgaum, 15th November 1947.

The working of the Department during the year under report appears, on the whole, satisfactory.

2. The number of cases taken to Courts is very small as compared with the number of offences detected. Prosecution of offenders would be preferable to compounding as the former would ensure deterrent effect.

3. The decrease in the revenue appears to be due to lesser quantity of timber sold and also to the corresponding decrease in the forest produce. The decrease in the expenditure appears to be mainly due to the cessation of the special war activities.

4. The Rural Development work done during the year was negligible. It is hoped that the Department will show better results in this respect during the current year.

5. The progress made by the Gun Clubs in killing as many as 1,608 pigs is highly appreciable.

6. In general, it is necessary to take immediate steps to bring into effect a scheme based on scientific forestry in order to make up the loss sustained by the forests on account of over-exploitation during the period of war and to meet the increasing demand for timber for the Post-war reconstruction schemes.

(Signed) D. V. VYAS,

Commissioner, Southern Division

Copy forwarded with compliments to :—

(1) The Chief Conservator of Forests, Bombay Province, Poona.

* * * * *

(Signed).....,

for Commissioner, Southern Division.

*Remarks on the Annual Forest Administration Report for the year 1946-47
of the Central Circle.*

No. FOR. PRB.

Office of the Commissioner, Southern Division:

Belgaum, 20th September 1947.

The increase in the number of offences during the year appears to be partly due to intensive patrolling by the subordinates of the Forest Department. But the number of undetected cases is considerable. It is hoped that in future, every effort will be made to detect as many cases as possible. Prosecution of the offenders rather than compounding of the offences might have had more deterrent effect.

2. It is seen from the report received by the Commissioner from the District Officer that the number of pigs killed in the Belgaum District during the year under report was 568. It appears that paragraph 184 of the report requires correction.

3. It is necessary to take immediate steps to bring into effect a scheme based on scientific forestry, in order to make up the loss sustained by Forests, on account of over-exploitation during the period of war and to meet the increasing demand for timber for Post-war reconstruction schemes.

(Signed) E. H. HOLT,
Commissioner, Southern Division.

Copy forwarded with compliments to :—

(1) The Chief Conservator of Forests, Bombay Province, Poona.

* * * * *

E.T.C. Vas,
Chief Conservator of Forests,
Province of Bombay.

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ANNUAL FORM NO. 51 (PART I).—Area of Reserved and

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1946		
			Acres	Equivalent in square miles	
1	2	3	4	5	
NORTH EASTERN CIRCLE.					
East Nasik ...	Nasik ...	Reserved ...	434,246	679	
	Do. ...	Protected ...	2,629	4	
West Nasik ...	Do. ...	Reserved ...	215,379	343	
	Do. ...	Protected ...	56,169	88	
Ahmednagar ...	Ahmednagar ...	Reserved ...	121,403	195	
	Do. ...	Protected ...	6,656	10	
East Khandesh ...	East Khandesh ...	Reserved ...	465,628	753	
	Do. ...	Protected ...	.....	.....
West Khandesh ...	West Khandesh ...	Reserved ...	486,731	692	
	Do. ...	Protected ...	.....	.....
West Khandesh Sub- Division.	West Khandesh ...	Reserved ...	499,923	781	
	Do. ...	Protected ...	.....	.....
Total, North Eastern Circle.		Reserved ...	22,60,324	3,434	
		Protected ...	55,154	102	
NORTH WESTERN CIRCLE.					
Panch Mahals ...	Broach and Panch Mahals {		Reserved ...	199,057	313
			Protected
North Thana ...	Thana ...	Reserved ...	229,910	259	
	Do. ...	Protected ...	2,276	4	
East Thana ...	Thana ...	Reserved ...	222,236	347	
	Do. ...	Protected ...	.....	.....
West Thana ...	Nasik ...	Reserved ...	53,626	84	
	Do. ...	Protected ...	.....	.....
Sarat Sub-Division	Thana ...	Reserved ...	918,713	342	
	Do. ...	Protected ...	7,791	12	
Sarat Sub-Division	Surat ...	Reserved ...	50,698	79	
	Do. ...	Protected ...	.....	.....
Sarat Sub-Division	Nasik ...	Reserved ...	13,755	21	
	Do. ...	Protected ...	1,267	2	
Total, North Western Circle		Reserved ...	682,004	1,645	
		Protected ...	11,264	18	

Protected Forests in charge of the Forest Department, 1946-47.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1947		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
	A. G.			Sq. M.	Sq. M.	Sq. M.	
	4	470,242	679	677		2	
		2,629	4	4			
347		219,725	343	343			
		55,189	88	88			
	16	124,357	125	125			
		5,655	10	10			
1,385		487,461	761	761			
		436,731	682	682			
		490,952	761	661		100	
2,185	20	91,02,499	3,141	3,309		132	
		65,451	102	102			
	10	190,577	313	313			
		229,690	360	357		2	
		2,236	4	4			
		222,255	347	347			
		58,626	89	89			
	3	518,710	849	242			
		7,791	12	12			
		50,698	79	79			
		13,755	21	21			
		1,267	2	2			
	13	968,991	1,545	1,543		2	
		11,264	18	18			

APPENDICES

ANNUAL FORM NO. 51 (PART I).—Area of Reserved and

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1946	
			Acres	Equivalent in square miles
1	2	3	4	5
CENTRAL CIRCLE				
Belgaum	Belgaum	Reserved	445,307	696
	Do.	Protected	12	.....
	Kanara	Reserved	230,923	361
Kolaba	Do.	Protected	.....	.....
	Kolaba	Reserved	279,289	436
	Do.	Protected	22,444	35
	Poona	Reserved	6,529	10
	Do.	Protected	.....	.....
	Balnagiri	Reserved	2,271	4
Satara	Do.	Protected	.....	.....
	Satara	Reserved and Leased.	331,493	518
Poona	Do.	Protected	643	1
	Poona	Reserved	233,636	366
	Do.	Protected	.....	.....
	Ahmednagar	Reserved	290	.....
Total, Central Circle		Reserved and Leased.	1,529,577	2,391
		Protected	93,093	36
SOUTHERN CIRCLE.				
Kanara, N. D.	Kanara	Reserved	335,036	523
Kanara, E. D.	Do.	Reserved	680,185	1,063
Kanara, W. D.	Do.	Reserved	682,931	1,067
	Do.	Protected	2,366	4
Dharwar-Bijapur	Dharwar	Reserved	161,298	252
	Bijapur	Reserved	154,967	242
Total, Southern Circle.		Reserved	2,014,417	3,147
		Protected	2,366	4
Grand Total, Province of Bombay.		Reserved	6,733,339	10,521
		Protected	102,183	160

Protected Forests in charge of the Forest Department, 1946-47—contd.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1947		Tripartite classification.			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
				Sq. M.	Sq. M.	Sq. M.	
.....	377	444,630	695	645	50	.....
.....	.....	12	.....	.....	.....	.....
.....	7	230,816	361	361	.....	.....
.....	
.....	8	279,221	436	417	16	4	
.....	1	22,443	35	35	.....	.....
.....	.....	6,529	10	10	.....	.....
.....	
.....	.....	2,271	4	4	.....	.....
.....	
.....	269	331,903	518	518	.....	.....
.....	.....	643	1	1	.....	.....
.....	35	233,601	365	347	18	.....
.....	
.....	.....	290	.....	.....	.....	.....
.....	716	1,522,661	2,359	2,302	63	4	
.....	1	23,096	36	36	.....	.....
.....	35	335,061	623	523	.....	.....
.....	2	650,152	1,063	786	277	.....
.....	(a) 31	682,839	1,067	760	307	.....
.....	93	.....	.....	.....	.....	.....
.....	.....	2,366	4	.....	4	.....
23,530	.....	184,648	289	244	37	8	
.....	105	154,863	242	201	38	3	
24,221	266	2,037,502	3,184	2,514	659	11	
.....	.....	2,366	4	.....	4	.....
15,139	1,015	6,787,653	10,569	9,668	742	149	
.....	1	102,182	160	156	4	.....

(a) Transfer of area from Forest Department to Revenue Department.
 (b) Transfer of area from Revenue Department to Forest Department.

ANNUAL FORM NO. 51 (PART II).—Area of Reserved and

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1946	
			Acres	Equivalent in square miles
1	2	3	4	5
NORTH EASTERN CIRCLE.				
East Nasik	Nasik	Reserved	19,974	31
	Ahmednagar	Reserved	8,220	13
West Nasik	Nasik	Reserved	7,793	12
	Ahmednagar	Reserved	64,080	102
East Khandesh	East Khandesh	Reserved	23,934	38
West Khandesh	West Khandesh	Reserved	7,951	13
West Khandesh Sub-Division.	Do.	Reserved	72,359	115
Total, North Eastern Circle.		Reserved	204,261	327
		Protected	.....	.....
NORTH WESTERN CIRCLE.				
Panch Mahals	Broach and Panch Mahals	Reserved	.....	.....
	Do. do.	Protected	.....	.....
North Thana	Thana	Protected	85,955	135
East Thana	Thana	Protected	65,029	103
	Nasik	Reserved	273	0.4
West Thana	Thana	Protected	73,477	116
Surat Sub-Division	Nasik	Reserved	8,103	13
	Ahmedabad	Reserved	8,654	14
Total, North Western Circle.		Reserved	17,013	27
		Protected	221,711	353

Protected Forests in charge of the Revenue Department, 1946-47.

No. of Forests	Excluded or transferred to other boxes	Area on 31st March 1947		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
1	2	3	4	5	6	7	8
				Sq. M.	Sq. M.	Sq. M.	
.....	71	19,923	31	.....	31	.....
.....	109	5,117	13	.....	13	.....
.....	.....	7,193	12	.....	12	2	
.....	.....	64,260	100	.....	100	.....
.....	.....	29,924	37	.....	37	.....
.....	.....	7,661	13	.....	13	.....
.....	.....	72,309	113	.....	113	.....
.....	171	204,157	315	.....	317	2	
.....	
.....	
.....	5	66,353	135	.....	135	.....
.....	4	15,925	102	.....	102	.....
.....	.....	278	.....	.....	.....	.....
.....	5	73,471	115	.....	115	.....
.....	.....	6,103	13	.....	.....	13	
.....	.....	5,694	13	.....	.....	13	
.....	.....	17,010	26	.....	.....	26	
.....	12	224,749	352	.....	352	.....

ANNUAL FORM No. 51 (PART II).—Area of Reserved and Protected

Division	Civil district or territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1946	
			Acres	Equivalent in square miles
1	2	3	4	5
CENTRAL CIRCLE.				
Belgaum ...	{ Belgaum ...	Reserved ...	971	2
		Protected ...	3,994	6
Kolaba ...	{ Kolaba ...	Reserved ...	8,468	13
		Do. ...	24,445	38
		Ratnagiri ...	9,809	15
Poona ...	Poona ...	Reserved ...	158,127	247
Satara ...	Satara ...	Reserved ...	117,525	181
Ahmednagar Sholapur.	and { Ahmednagar ...	Reserved ...	309,161	483
		Sholapur ...	94,629	146
Total, Central Circle ...		{ Reserved ...	699,110	1,092
		{ Protected ...	28,439	44
SOUTHERN CIRCLE.				
Kanara, N. D. ...	Kanara ...	Protected ...	2,371	4
Kanara, E. D. ...	Do. ...	Protected ...	116,141	181
		Protected ...	8,570	13
Kanara, W. D. ...	{ Do. ...	Reserved ...	6,564	10
		Dharwar ...	Reserved ...	76,291	119
Dharwar-Bijapur ...	{ Bijapur ...	Reserved ...	18,366	29
		Total, Southern Circle ...	{ Reserved ...	101,221	156
		{ Protected ...	127,082	196
Grand Total, Province of Bombay.		{ Reserved ...	1,021,602	1,595
		{ Protected ...	380,232	594

Forests in charge of the Revenue Department, 1946-47—contd.

Added during the year	Excluded or transferred to other head	Area on 31st March 1947		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
				Sq. m.	Sq. m.	Sq. m.	
.....	52	919	1	.....	1	.....
.....	.....	3,924	6	.....	6	.....
.....	.....	8,455	13	.....	13	.....
.....	3	24,442	38	.....	38	.....
.....	.....	9,809	15	.....	15	.....
.....	.....	158,127	247	.....	247	.....
.....	.....	117,925	184	.....	180	.....	4
.....	.....	309,161	483	.....	463	.....
.....	.....	34,629	148	.....	148	.....
.....	62	699,058	1,091	.....	1,067	.....	1
.....	3	23,436	44	.....	44	.....
.....	.....	2,371	4	.....	4	.....
(a) 31	2	116,170	182	.....	182	.....
.....	.....	8,570	13	.....	13	.....
.....	4	6,560	10	.....	10	.....
.....	b) 23 250	52,941	83	.....	83	.....
.....	4	18,562	29	.....	29	.....
.....	23,258	77,663	122	.....	122	.....
31	2	147,111	199	.....	199	.....
.....	23,584	993,016	1,536	.....	1,526	.....	32
31	17	380,296	595	.....	595	.....

(a) Transfer of area from Forest Department to Revenue Department.
 (b) Transfer of area from Revenue Department to Forest Department.

FORM No. 55.—Progress made in Working

Division	Area under sanctioned Working Plans					Area Work Plans under preparation
	At commencement of year	Added during year	Deducted during year	At close of year		
				Actual area	Percentage of total forest area (as shown in column 10)	
1	2	3	4	5	6	7
NORTH EASTERN CIRCLE.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Per cent.	Sq. m.
<i>Reserved Forests in charge of the Forest Department.</i>						
East Nasik	679	...	...	679	100	...
West Nasik	533	...	...	533	100	...
East Khandesh	757	...	...	757	99	...
West Khandesh	680	...	...	680	100	...
West Khandesh Sub-Division	524	...	...	524	67	256
Total of Reserved Forests in charge of the Forest Department.	3,173	...	...	3,173	92	256
<i>Protected Forests in charge of the Forest Department.</i>						
East Nasik ... ..	...	...	...	...	.....	...
West Nasik	85	...	...	85	90	...
Total of Protected Forests in charge of the Forest Department.	85	...	...	85	86	...
Total, North Eastern Circle	3,258	...	...	3,258	92	356
NORTH WESTERN CIRCLE.						
<i>Reserved Forests in charge of the Forest Department.</i>						
Panch Mahals	309	...	...	309	99	4
North Thana	329	...	...	353	100	...
East Thana	431	...	...	431	100	...
West Thana	342	...	...	342	100	...
Surat Sub-Division	59	...	...	59	99	...
Total of Reserved Forests in charge of the Forest Department.	1,540	...	...	1,540	100	4
<i>Protected Forests in charge of the Forest Department.</i>						
North Thana	4	...	...	4	100	...
West Thana	12	...	...	12	100	...
Surat Sub-Division ... ..	...	...	...	...	...	...
Total of Protected Forests in charge of the Forest Department.	16	...	...	16	80	...

Plans during the year 1946-47.

not under Ing Plans	Plans not under Preparation	Total forest area in Form No. 51, Part I (Total of columns 5, 7, 8 and 9)	Revision	Expenditure on Working Plans during the year	Remarks	
						8	9	10	11	12	13	14
Required at pro- sent	Not required at present		Due or required	In progress at end of year	Revised plans sanctioned during year	
Ba. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.
...	...	679	...	...	...	.....
...	...	839	...	187	...	.....
...	4	761	...	299	...	668
...	2	662	...	232	...	.....
...	1	781	...	119	...	.....
...	7	3,441	...	837	...	536
4	10	98	...	...	...	.....
4	10	102	...	...	...	.....
4	17	8,543	...	887	...	668
...	...	313	...	808	...	.....
...	...	259	...	859	...	.....
...	...	431	...	347	...	2,158
...	...	842	...	338	...	.....
...	1	100	100	...	...	.....
...	1	1,545	100	1,353	...	2,158
...	...	4	...	...	...	.....
...	...	12	...	...	...	.....
3	...	2	...	...	...	.....
3	...	18	...	...	...	.....

FORM NO. 55.—Progress made in Working

Division.	Area under sanctioned Working Plans				At close of year	Percentage of total forest area (as shown in column 10)	Plans under preparation
	2	3	4	5			
1	At commencement of year	Added during year	Deducted during year	Actual area	6	7	
NORTH WESTERN CIRCLE	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Percent.	Sq. m.	
<i>Protected Forests in charge of the Revenue Department.</i>							
North Thana	135	...	...	135	100	...
East Thana	102	...	...	102	100	...
West Thana	115	...	...	115	100	...
Total of Protected Forest in charge of the Revenue Department.	352	...	...	352	100	...
<i>Forest belonging to the Bombay Municipality.</i>							
Total North Western Circle	1,913	...	...	1,913	97.6	4
CENTRAL CIRCLE.							
<i>Reserved Forest.</i>							
Belgaum	419	...	...	419	89.7	...
Kolaba	434	...	...	434	94.4	...
Poona	364	...	1	363	99.5	24	
Balara	493	...	...	493	100.0	...
Total of Reserved Forest	1,710	...	1	1,709	72.3	2	
<i>Protected Forests</i>							
Ko'aba	...	...	...	...	.....	...
Salara	1	...	...	1	100	...
Total of Protected Forests	1	...	...	1	9.8	...
<i>Leased Forest</i>							
Eastara	21	...	...	21	54.0	4
Total Central Circle	1,733	...	1	1,731	71.4	6	
SOUTHERN CIRCLE							
<i>Kenara, Northern Division</i>							
Do. Eastern do.	403	...	...	409	38	1734
Do. Western do.	407	...	...	407	38	7334
D. rwar-Bilupur do.	490	...	...	429	51	...
Total Southern Circle	1,390	...	...	1,393	30	173
Grand Total, Province of Bombay.	8,599	...	1	8,598	76	512	

Plans during the year 1946-47—contd.

not under the Plans		Plans not under preparation	Total forest area in Form No. 11 Part I (Total of columns 5, 7, 8 and 9)	Revision			Expenditure on Working Plans during the year	Remarks
Required at present	Not required at present			Due or required	In progress at end of year	Revised plans sanctioned during year		
Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	15
...	...	135	...	...	...	...	.....	(a) Area afforested in the Poona Ranges.
...	...	102	...	...	...	...	.....	(b) Area taken from the Revenue Department.
...	...	115	...	...	...	...	.....
...	...	352	...	...	...	...	.....	(+) Unorganised area.
...	...	5	...	...	...	...	.....	(c) 14 Sq. miles of the revised Working Plan for the Nagargalli High Forest.
2	1	1,923	100	1,353	...	...	2,125	22 Sq. miles of the Supa Fuel Reserves.
94	...	1,056	63(c)	350(d)	...	...	69	3 Sq. miles of the Working Plan for the Castlerock Fuel Supply.
543	(b) 16	450	...	...	...	...	.....
...	...	365	...	...	...	...	.....	(2) 145 Sq. miles of the Gokak Range Forests Working Plan.
...	...	403	...	...	...	...	.....
637	16	2,364	69	330	...	...	.....	235 Sq. miles of the Revised Working Plan for the Teak Pole, Fuel and Sandalwood Forests of Nagargalli and Khanapur Ranges.
...	35	95	...	...	...	...	.....
...	...	1	...	...	...	...	.....	(c) 63 Sq. miles of the extension of the Gokak Forests.
...	85	96	...	...	...	...	.....
...	...	25	...	...	...	...	.....	4 Sq. miles afforested area Degaon.
537	51	2,426	69	330	...	...	.....	27 Sq. miles of Patne Chandgad Forests.
169	...	523	85	269	...	...	.....
631	...	1,063	64	345	...	...	1,24,292(c)	
74	...	1,071	29	101	...	...	.....
172	...	531	429	...	...	...	.....
116	...	5,158	75	725	...	...	1,24,352	
559	61	11,165	1,064	3,353	...	...	1,26,975	

(a) Sagopal bearing areas in Sirsi Sidlapur Range 73 Sq. miles are included in the area in charge of the Revenue Department.

(b) In charge of the Revenue Department but included in Sandalwood Working Plan.

(c) The work carried out was not actually the revision of any particular plan but consisted of a cadastral Survey of a vast area of both organized and unorganized forest in the Kanara district. Hence the total expenditure under B.V. and P.W.R. is shown against the Kanara divisions.

FORM No. 58.—*Area of Forest Tracts protected from fire during 1946-47.*

Division	Area in square miles		Percentage of forests under fire protection to total area of reserves	Percentage of failures to area attempted		Remarks.
	Attempted	Protected		Average of past 5 years	During the year	
1	2	3	4	5	6	7
NORTH EASTERN CIRCLE.						
East Nasik ...	683	680	100 per cent.	1.2	0.44	
West do. ...	856	690	100 per cent.	1.0	0.94	
East Khandesh ..	758	697	100	19.5	8.0	
West do. ...	682	607	100	8.9	11.0	
West Khandesh Sub-Division.	781	690	100	10.2	11.6	
Total, North. Eastern Circle.	3,560	3,364	100	8.1	6.7	
NORTH WESTERN CIRCLE.						
Panch Mahals ...	313	252	100	9.8	9.7	
North Thane ...	363	355	100	2.2	2.2	
East do. ...	431	414	100	5.4	3.9	
West do. ...	354	342	100	4.3	3.2	
Surat Sub-Division ...	102	101	100	2.3	1.1	
Total of North Western Circle.	1,563	1,464	100	4.8	4.4	
CENTRAL CIRCLE.						
Belgaum ...	52	52	4.9	5.0	.....
Kolaba ...	485	479	100.0	2.2	1.2	
Poona ...	385	359	100.0	4.4	1.6	
Satara ...	510	516	100.0	1.5	0.6	
Total of Central Circle.	1,421	1,406	58.3	2.6	1.1	
SOUTHERN CIRCLE.						
Kanara, N. D. ...	79	79	15.1	2.1	.....
Do. E. D. ...	119	118	11.2	4.8	1.0	
Do. W. D. ...	72	71	6.7	3.6	1.4	
Dharwar-Bijapur ...	530	501	100.0	1.4	5.5	
Total of Southern Circle.	800	769	25.1	2.3	5.9	
Grand Total Province of Bombay.	7,334	6,973	68.3	6.3	4.8	

FORM No. 59.—*Causes of Forest Fires*
during 1946-47.

Circle and Divisions, 1	Fires originating in departmental fire conservancy operations.		External fires crossing the fire traces	
	No. of fires 2	Area burnt acres 3	No. of fires 4	Area burnt acres 5
NORTH EASTERN CIRCLE.				
East Nasik ... ..	.....	.....	.....	.....
West do. ... ..	.....	.....	.....	.....
East Khandesh ... ..	.....	.....	1	119
West do. ... ..	.....	.....	2	3,260
West Khandesh Sub-Division	1	700	.....	.....
Total, North Eastern Circle ...	1	700	3	3,419
NORTH WESTERN CIRCLE				
Panch Mahals ... ..	.....	.....	.....	.....
North Thana ... ..	.....	.....	.....	.....
East do.	4	45	6	625
West do. ... ..	.....	.....	.....	.....
Surat Sub-Division ... ..	.....	.....	.....	.....
Total, North Western Circle ...	4	45	6	625
CENTRAL CIRCLE.				
Belgaum ... ..	.....	.....	.....	.....
Kolaba ... ..	.....	.....	.....	.....
Poona ... ..	.....	.....	2	55
Satara ... ..	.....	.....	1	15
Total, Central Circle ...	.....	.....	3	70
SOUTHERN CIRCLE.				
Kanara, N. D. ... ..	.....	.....	.....	.....
Do. do. ... ..	.....	.....	2	55
Do. do. ... ..	.....	.....	.....	.....
Dharwar Bijapur ... ..	.....	.....	.....	.....
Total, Southern Circle ...	.....	.....	2	35
Grand Total, Bombay Province ..	5	745	14	4,149

Forest Fires during 1946-47.

Fires beginning inside the reserved or fire-traced areas				Fires due to causes outside reserved areas		Total	
Owing to carelessness of outsiders or due to accidents		Owing to intentional or malicious firing					
No. of fires	Area burnt acres	No. of fires	Area burnt acres	No. of fires	Area burnt acres	No. of fires	Area burnt acres
6	7	8	9	10	11	12	13
.....	.....	.....	.....	33	2,570	53	2,570
7	489	.....	.....	45	3,228	52	3,717
7	5,261	.....	.....	92	33,895	100	39,275
.....	.....	.....	.....	97	41,069	99	46,259
16	1,918	.....	.....	65	55,659	102	58,277
30	7,686	.....	.....	352	1,40,811	386	1,52,098
223	19,459	.....	.....	.....	.....	223	19,459
3	95	.....	.....	93	5,465	93	5,490
7	1,000	.....	.....	94	9,212	111	10,862
21	1,500	.....	.....	90	5,807	84	7,407
8	725	.....	.....	.....	.....	8	725
255	27,809	.....	.....	257	20,484	522	43,963
20	3,404	.....	.....	.....	.....	20	3,404
12	204	.....	.....	75	3,750	87	3,962
19	631	.....	.....	49	3,274	61	3,960
33	2,033	2	12	1	2	97	2,162
12	6,274	2	12	125	7,092	265	13,388
.....	.....	.....	.....	6	3,046	6	3,046
12	1,664	.....	.....	5	554	19	1,653
4	156	.....	.....	11	387	16	543
.....	.....	.....	.....	45	19,073	45	19,073
17	1,220	.....	.....	70	23,060	89	21,915
47	97,971	2	12	804	1,93,887	1,262	2,33,764

The figures in columns 12 and 13 include one contract area case and the area burnt respectively.

FORM No. 60.—Area closed and open to grazing during 1946-47.

Division	Area closed to grazing of all animals throughout the year	Area open to grazing throughout the year		Balance, i.e. area open to grazing for a part of the year (and therefore closed for the remainder)		Total
		Of all animals	Of non-browsers only	Of all animals	Of non-browsers only	
1	2	3	4	5	6	7
NORTH EASTERN CIRCLE.						
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.
East Nasik	57	108	533	23	...	727
West do.	28*	222	485	11	...	745
East Khandesh	129	53	447	...	169	795
West Khandesh	59	13	623	...	...	695
West Khandesh Sub-Division.	163	129	559	...	43	844
Total, North Eastern Circle...	436	525	2,647	40	212	3,860
NORTH WESTERN CIRCLE.						
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.
Panch Mahals	34	...	260	19	...	313
North Thana	23	139	336	...	...	498
East do.	63	102	367	1	...	533
West do.	21	115	333	...	...	469
Surat Sub-Division	34	28	65	...	...	127
Total, North Western Circle	175	364	1,562	20	...	1,941
CENTRAL CIRCLE.						
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.
Belgaum	109	7	947	...	...	1,063
Kolaba	35	102	410	...	4	551
Poona	42	248	286	...	36	612
Satara	29	184	452	...	28	793
Ahmednagar and Sholapur ... ..	...	681	...	...	...	681
Total, Central Circle ...	215	1,172	2,105	...	68	3,560
SOUTHERN CIRCLE.						
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.
Kanara, N. D.	40	4	483	...	...	527
Do. E. D.	31	1,214	...	...	...	1,245
Do. W. D.	10	1,824	...	...	...	1,834
Dharwar-Bijapur	58	132	453	...	...	643
Total, Southern Circle ...	139	2,434	936	...	...	3,509
Grand Total, Province of Bombay ...	955	4,516	7,050	60	280	12,555

* Excluding 2 square miles submerged in Bhandardara Lake.

FORM No. 61.—*Return of Grazing in the State Forests
during 1946-47.*

FORM No. 61.—Return of Grazing

Division	Grazing					
	At Full Rates					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Canals	Other animals	Fees received
1	2	3	4	5	6	7
NORTH EASTERN CIRCLE.	No.	No.	No.	No.	No.	Rs.
East Nasik ...	3	281	.....	.....	.....	25
West do. ....	.....	.....	.....	.....	.....	.....
East Khandesh ...	132	1,627	.....	.....	3	1,75
West do. ....	.....	196	.....	.....	.....	.....
West Khandesh Sub-Division	3,125	3,937	.....	.....	387	75
Total, North Eastern Circle.	3,331	6,021	.....	.....	390	275
NORTH WESTERN CIRCLE.						
Panch Mahals ...	173	300	.....	.....	.....	.....
North Thana ...	.....	.....	.....	.....	.....	.....
East do.	2	16	.....	.....	.....	.....
West do. ....	.....	.....	.....	.....	.....	.....
Surat Sub-Division ...	.....	.....	.....	.....	.....	.....
Total, North Western Circle.	175	419	.....	.....	.....	.....

the State Forests during 1946-47--contd.

free							Grand Total of value at full rates
During pleasure of Government or otherwise than under Settlement						Total value of fees at full rates, col. 20 + col. 26	
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates		
21	22	23	24	25	26	27	28
No.	No.	No.	No.	No.	Rs.	Rs.	Rs.
13,679	107,734	92,998	.....	1,815	1,46,469	1,46,469	1,46,693
12,832	109,516	7,372	.....	298	1,24,489	1,24,439	1,24,489
63,142	110,092	1,154	.....	873	1,64,395	1,64,395	1,65,157
11,748	60,302	.....	.....	477	73,127	73,127	73,323
15,593	63,244	31,625	.....	675	95,393	95,393	1,02,943
109,955	456,478	1,38,049	.....	4,138	6,03,863	6,03,863	6,13,606
15,128	68,319	.....	.....	17,650	91,097	91,097	91,670
12,923	59,513	.....	.....	.....	72,736	72,736	73,965
62,663	102,123	.....	.....	.....	1,64,786	1,64,786	1,64,807
22,171	78,909	867	.....	610	1,01,907	1,01,907	1,01,907
3,174	18,438	.....	.....	.....	21,667	21,667	21,667
118,039	317,657	867	.....	18,260	4,52,193	4,52,193	4,54,016

(a) Remarks as on page 21.

FORM No. 61.—Return of Grazing

Division	At Full Rates					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Fees received
	1	2	3	4	5	6
CENTRAL CIRCLE	No.	No.	No.	No.	No.	Ra.
Belgaum ...	28	156	...	.....	.....	184
Kolaba ...	.....	4	.....	.....	.....	4
Poona ...	18	192	.....	.....	.....	216
Satara ...	.....	.....	352	.....	.....	81
Total, Central Circle...	46	352	352	.....	.....	46
SOUTHERN CIRCLE						
Kanara N. D. ...	.....	.....	.....	.....	.....	.....
Do. E. D. ...	.....	.....	.....	.....	.....	.....
Do. W. D. ...	.....	.....	.....	.....	.....	.....
Dharwar-Bijapur ...	.....	88	.....	.....	.....	8
Total, Southern Circle...	.....	88	.....	.....	.....	8
Grand Total, Province of Bombay.	3,652	6,866	352	.....	392	10,9

FORM No. 61.—Return of Grazing in

Division	By right under Settlement					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates
	15	16	17	18	19	20
	No.	No.	No.	No.	No.	Rs.
CENTRAL CIRCLE						
Belgaum	.....	.....	.....	.....	.....	.....
Kolaba	30	1,141	.....	.....	.....	1,621
Poona	.....	.....	.....	.....	.....	.....
Satara	14	60	.....	.....	.....	54
Total, Central Circle...	394	1,181	.....	.....	.....	1,575
SOUTHERN CIRCLE						
Kanara N. D.	.....	.....	.....	.....	.....	.....
Do. E. D.	.....	.....	.....	.....	.....	.....
Do. W. D.	.....	.....	.....	.....	.....	.....
Dharwar-Bijapur	.....	.....	.....	.....	.....	.....
Total, Southern Circle...	.....	.....	.....	.....	.....	.....
Grand Total, Province of Bombay.	394	1,181	.....	.....	.....	1,575

the State Forests during 1946-47—concl'd.

free							Grand Total of value at full rates
During pleasure of Government or otherwise than under Settlement							
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates	Total value of fees at full rates, col. 20 + col. 25	
21	22	23	24	25	26	27	28
No.	No.	No.	No.	No.	Rs.	Rs.	Rs.
18,040	33,192	19,254	.....	.....	55,975	55,975	56,179
12,873	31,811	120	.....	129	(a) 44,548	46,069	46,070
60,818	2,19,341	25,398	.....	1,065	2,87,574	2,87,574	2,87,318
13,470	36,507	17,823	.....	30	(a) 54,753	54,817	54,905
104,906	3,21,081	62,585	.....	1,224	4,42,860	4,44,435	4,44,970
4,786	21,577	.....	.....	2	25,364	25,364	25,364
23,604	79,483	2,114	.....	7	1,03,622	1,03,622	1,03,622
45,825	61,072	60	.....	.....	1,06,449	1,06,449	1,06,449
61,106	41,874	56,324	.....	.....	1,19,061	1,19,061	1,19,149
1,56,720	204,005	69,046	.....	9	3,55,456	3,55,496	3,55,584
47,570	12,99,221	255,597	.....	23,631	18,54,412	18,55,987	18,58,175

FORM NO. 63.—*Outturn (in thousand cubic feet, solid) of Timber*

Division	Timber					Government
	Government	Purchasers	Free Grantees	Right and privilege holders	Total	
1	2	3	4	5	6	7
NORTH EASTERN CIRCLE.						
Reserved Forest	141	1,268	7	...	1,416	588
Protected Forest ... ..	...	206	...	...	206	...
Unclassed Forest ... ..	...	...	...	...	...	...
Total, North Eastern Circle ...	141	1,474	7	...	1,622	588
NORTH WESTERN CIRCLE.						
Reserved Forest	203	2,051	22	1	2,277	404
Protected Forest	1	309	1	...	311	...
Unclassed Forest ... ..	...	285	1	3	287	...
Total, North Western Circle ...	204	2,643	24	4	2,875	404
CENTRAL CIRCLE.						
Reserved Forest	353	485	24	35	897	3,813
Total, Central Circle	353	485	24	35	897	3,813
SOUTHERN CIRCLE.						
Reserved Forest	2,521	910	22	95	3,548	1,980
Total, Southern Circle	2,521	910	22	95	3,548	1,980
Grand Total, Province of Bombay ...	3,219	5,512	77	134	6,943	6,733

N. B.—Charcoal should be shown by its equivalent in fuel, the quantity of wood consumed in producing it being entered in Cubic feet, Solid.

In remarks Column of this form it should be shown which of the figures entered in it are actuals and which are only estimates, it being also noted in the latter case how figures have been arrived at.

and Fuel during the year 1946-47 and Agency of Exploitation.

Fuel				Total Output							Remarks 18
Purchasers 8	Free Grantees 9	Rights and village holders 10	Total 11	Timber and fuel 12	Sandalwood		Rejected Sandalwood				
					Billets, roots, etc.		Trees, billets, branches, roots, chips, etc.				
					Seanted 13	Unseanted 14	Number. 15	C.ft. 16	Cartloads 17		
e. ft.	e. ft.	e. ft.	e. ft.	e. ft.	T. C. Q. lb.	T.C.Q.lb.			No.		
5,427	1	16,961	22,975	24,391	.....	...	...	...	...	...
...	...	...	...	206	.....	...	...	...	...	...
40	...	...	40	40	.....	...	...	...	...	...
5,467	1	16,961	22,015	24,627	.....	...	...	...	...	...
8,919	...	7,971	17,294	19,571	.....	...	...	...	...	...
1,469	...	764	2,246	2,557	.....	...	...	...	...	...
735	...	...	735	1,022	.....	...	...	...	...	...
11,136	...	8,735	20,275	23,150	.....	...	...	...	...	...
3,649	...	3,796	11,255	12,155	27 7 2 6 0 6 3 4	...	...	...	136*	
2,649	...	3,796	11,258	12,155	27 7 2 6 0 6 3 4	...	...	...	138	
1,945	2	4,567	8,444	11,992	198 11 0 7	...	(a) 379 (b) 4,491 (c) 4,801 (d) 12	...	(e) 289	289	
1,945	2	4,567	8,444	11,999	193 11 0 7	...	2,683	...	...	241
22,197	3	34,059	62,992	71,934	220 18 2 13 0 6 3 4	...	9,653	...	...	379

* Branch wood and white chips.

(a) Rejected trees.
(c) Rejected Chips.
(e) Rejected Stumps.(b) Rejected Roots.
(d) Rejected Pieces and branch wood.

FORM No. 64.—*Outturn of Minor Forest Produce during the year 1946-47.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Government Agency		By purchasers		By Free-grants		By Right holders		Quantity	Value
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value		
NORTH EASTERN CIRCLE		Rs.		Rs.		Rs.		Rs.		Rs.
<i>Reserved Forests.</i>										
Bamboos	62		38,653		151					36,867
Grass and grazing			2,27,255				7,83,369			10,10,624
Apta Tembhurni leaves			23,953							23,953
Karvi			471				4,532			5,003
Stones, earth, Murum etc.			2,060		2,551		25,087			29,698
Hirda and Behoda			2,048							2,048
Leo			968							968
Gum			28,312							28,312
Thorns			8,171		66		19,477			27,704
Bosha Grass			29,521							29,521
Ohillar Bark			1,341							1,341
Tarward Bark			10,279							10,279
Karanj Fruit	886		655							1,541
Manure			2,233							2,233
Ghatbor			8,505				892			9,397
Anjan leaves			4,967							4,967
Mhowra flowers			1,671				400			2,071
Skins and Hides			547							547
Bafed musali			2,966							2,966
Teak leaves							6,365			6,365
Miscellaneous	5,154		4,239		15		39,418			41,826
Total, of Reserved Forests.		6,102		3,96,828		2,773		8,79,540		12,78,344
<i>Protected Forests.</i>										
Grass and grazing							68,821			68,821
Miscellaneous							772			772
Total of Protected Forests.							69,593			69,593
Total, North Eastern Circle		6,102		3,96,828		2,773		9,49,133		13,47,937

FORM No. 64.—*Outturn of Minor Forest Produce during the year 1946-47—contd.*

Description of produce	PRODUCE REMOVED OR UTILIZED.								Total	
	By Govern- ment Agency		By purchasers		By Free- grants		By Right holders			
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Rs.		Rs.		Rs.		Rs.		Rs.	
NORTH WESTERN CIRCLE.										
<i>Reserved Forest.</i>										
Bamboos ...	5		57,117		318		59,123		1,16,563	
Grass and grazing ...	46,321		27,215				5,11,386		5,89,924	
Apis and Tamburni ...			32,818				7,144		39,969	
Karvi ...			793				15,752		16,545	
Stones, Sand, etc. ...			4,199				8,233		12,432	
Birds ...			739						739	
Gum ...							603		603	
Thorns ...			325				6,301		6,629	
Chillar Bark ...			2,585						2,585	
Dalwan sticks ...			1,398						1,398	
Ashiru leaves ...			3,269						3,269	
Miscellaneous ...			1,753				37,943		39,696	
Total, Reserved Forest ...	46,326		1,32,016		318		6,41,485		8,20,146	
<i>Protected Forest.</i>										
Bamboos ...							11,064		11,064	
Grass and Grazing ...							90,649		90,649	
Karvi ...							2,766		2,766	
Stones, Sand, etc. ...							2,000		2,000	
Miscellaneous ...							8,298		8,298	
Total, Protected Forest ...							1,14,777		1,14,777	
Total North Western Circle.	46,326		1,32,016		318		7,56,262		9,34,923	

FORM No. 64.—*Outturn of Minor Forest Produce during the year 1946-47—contd.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Govern- ment agency		By purchasers		By free- grants		By Right holders		Quantity	Value
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value		
CENTRAL CIRCLE		Rs.		Rs.		Rs.		Rs.		Rs.
<i>Reserved Forests</i>										
Seed	430	...	...	...	...	...	...	...	480
Bamboos	28,116	...	237	...	830	...	29,183
Grass and grazing	59,819	...	469	...	4,58,301	...	5,18,579
Babul pods	4,302	...	...	...	...	...	4,302
Hirde and Shikakai	28,778	...	...	...	...	...	28,778
Apta Tembhorni	4,351	...	...	...	5,581	...	9,582
Earth Stones and Murum	2,408	...	31,116(a)	...	517	...	24,036
Tamarind fruit	1,976	...	...	...	...	...	1,976
Karvi	179	...	...	...	5,124	...	5,303
Thorns	308	...	17	...	776	...	1,901
Tarwad Bark	1,099	...	...	...	...	...	1,099
Chilar Bark	2,834	...	...	...	...	...	2,834
Karanj seed	1,191	...	...	...	...	...	1,191
Bandurbi	511	...	...	...	...	...	511
Honey and Wax	1,267	...	...	...	7,000	...	8,267
Tahal	28,304	...	28,304
Canes	1,948	...	...	...	...	...	1,948
Palas leaves	5,316	...	5,316
Miscellaneous	2,563	...	...	...	4,139	...	7,007
Total, Reserved Forest	430	...	1,41,850	...	21,923	...	5,15,640	...	6,79,743
<i>Protected Forests</i>										
Miscellaneous	101	...	...	...	...	...	101
Total, Protected Forests	101	...	...	...	...	...	101
<i>Leased Forests</i>										
Grass and grazing	1,400	...	...	...	...	...	1,400
Miscellaneous	15	...	...	...	...	...	15
Total, Leased Forests	1,415	...	...	...	...	...	1,415
Total, Central Circle	430	...	1,43,365	...	21,939	...	5,15,640	...	6,91,945

(a) Includes free grant worth Rs. 19,192 to P. W. D.

FORMS Nos. 65 and 66.—*Account of Timber and other Produce cut or collected by Government Agency and brought to Depots, sold locally or otherwise disposed of during the year 1944-45.*

COMBINATION OF FORMS NOS. 65 AND 66.—*Account of Timber and depots, sold locally or otherwise disposed*

Name of Division	Balance at commencement of the year in forest and sale depots		Received during the year
	1	2	3
NORTH EASTERN CIRCLE.			
	C. ft.	Rs.	C. ft.
East Nasik—			
Teak	418	20	750
Junglewood ... ..	.....	.....	.....
Total ...	418	209	750
West Nasik—			
Teak	2,507	1,254	27,369
Junglewood	9,575	11,913	27,505
Total ...	12,082	13,167	54,874
East Khandesh—			
Teak	1,599	1,599	3,440
Junglewood ... ..	.....	.....	.....
Total ...	1,599	1,599	3,440
West Khandesh—			
Teak	17,312	51,856	60,817
Jungle wood	472	1,416	9,390
Pre-empted Teak	9,094	30,308	8,946
Pre-empted Junglewood ... ..	.....	.....	944
Total ...	26,778	83,080	79,597
West Khandesh Sub-Division—			
Teak	1,566	196	851
Junglewood ... ..	.....	.....	1,900
Total ...	1,566	196	2,751
Total Timber ...			
{ Teak	32,396	84,922	1,01,673
{ Junglewood	10,047	13,329	39,739
Total ...	42,443	98,251	1,41,412
<i>Firewood.</i>			
Fuel—			
East Nasik	1,987	20	9,775
West Nasik	1,87,166	37,420	1,22,934
East Khandesh	76,925	6,154	26,830
West Khandesh	5,20,377	1,36,365	36,213
West Khandesh Sub-Division	7,325	148	9,975
Total ...	7,93,780	1,80,105	2,04,726

other produce cut or collected by Government Agency and brought to
of during the year 1946-47—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depots		Difference in value	
				In favour of the year	Against the year
5	6	7	8	9	10
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
1,168	725	443	221	12	.....
.....
1,168	725	443	221	12	.....
29,876	27,332	2,544	1,272	18	.....
37,080	35,806	1,774	400	.....	11,513
66,956	62,638	4,318	1,672	18	11,513
5,039	2,229	2,810	2,810	1,211	.....
.....
5,039	2,229	2,810	2,810	1,211	.....
77,529	18,196	59,333	1,35,313	88,957	.....
9,862	9,766	96	192	.....	1,224
18,040	2,646	15,394	76,970	46,662	.....
944	.....	944	1,883	1,888	.....
1,06,375	30,608	75,767	2,14,363	1,32,507	1,224
2,417	2,417	.....	.....	.....	196
1,900	1,900	.....	.....	.....	.....
4,317	4,317	.....	.....	.....	196
1,34,069	53,545	80,524	2,16,586	1,31,869	196
43,786	46,972	2,814	2,480	1,858	12,737
1,83,555	1,00,517	83,338	2,19,066	1,33,748	12,933
10,762	9,812	950	10	.....	10
3,10,100	2,12,650	97,250	6,078	.....	31,342
1,93,755	1,02,491	1,264	101	.....	6,053
5,56,589	2,31,416	3,25,173	40,646	.....	95,719
17,300	18,175	4,125	83	.....	63
9,96,606	5,69,744	4,23,762	46,915	.....	1,33,187

COMBINATION OF FORMS Nos. 65 AND 86.—Account of Timber and depots, sold locally or otherwise Dipped

Name of Division 1	Balance at commencement of the year in forest and sale depots		Received during the year 4
	2	3	
NORTH EASTERN CIRCLE—contd.			
<i>Charcoal.</i>			
West Nasik	69,800
East Khandesh	1,450	189	.....
West Khandesh	13,737
Total	1,450	189	83,037
Total, Fuel including charcoal ...	7,95,230	1,80,294	2,87,763
<i>Sandlewood.</i>			
East Nasik	Rs. 7
West Nasik	1,373
East Khandesh	1
West Khandesh Sub-Division	9
Total	1,390
<i>Minor Forest Produce.</i>			
<i>Bamboos.</i>			
West Nasik	62
East Khandesh	8	.....
Total	8	62
<i>Other Minor Forest Produce.</i>			
West Nasik	6,040
<i>Drift and Waifwood and confiscated Forest Produce.</i>			
East Nasik	268
West Nasik	666
West Khandesh	95
Total	1,029
		Net difference	in favour

other produce cut or collected by Government Agency and brought to of during the year 1946-47—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depots		Difference in value	
				In favour of the year	Against the year
5	6	7	8	9	10
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
69,300	54,300	15,000	15,750	15,750	.....
1,450	1,450	.....	.....	.....	189
13,737	12,095	1,642	1,280	1,280	.....
84,487	67,845	16,642	17,030	17,030	189
10,52,993	6,37,589	4,45,404	62,948	17,030	1,53,376
Rs.	Rs.				
7	7	.....	.....	.....	.....
1,373	1,373	.....	.....	.....	.....
1	1	.....	.....	.....	.....
9	9	.....	.....	.....	.....
1,390	1,390	.....	.....	.....	.....
62	62	.....	.....	.....	.....
8	8	.....	.....	.....	8
70	70	.....	.....	.....	8
6,040	6,040	.....	.....	.....	.....
268	268	.....	.....	.....	.....
666	666	.....	.....	.....	.....
95	95	.....	.....	.....	.....
1,029	1,029	.....	.....	.....	.....
of the year Rs.	4,461 North Eastern Circle.				

other Produce out or collected by Government Agency and brought to of during the year 1946-47.

Total	Disposed of during the year	Balance in hand at close of the year in Forest and Sale Depôts		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
1,21,521	1,18,097	2,273	1,100	.....	77,750
.....	.....	1,151	600	.....	.....
1,21,521	1,18,097	3,424	1,700	.....	77,750
1,99,464	49,672	1,49,792	37,443	12,914	.....
1,42,383	61,619	80,664	5,941	.....	1,042
3,41,747	1,11,291	2,30,456	42,790	12,914	1,042
9,045	6,545	2,500	417	.....	756
8,938	3,855	4,993	8,873	8,749	.....
17,383	9,900	7,183	9,290	8,749	756
7,922	6,808	1,514	758	.....	1,241
10,544	8,770	1,774	444	.....	1,000
18,366	15,078	3,288	1,202	.....	2,241
5,684	3,379	2,305	2,305	.....	594
149	81	68	68	68	.....
5,833	3,460	2,373	2,373	68	594
5,04,850	2,57,526	2,47,024	57,555	21,721	82,383
1,48,850	1,82,075	11,275	125	.....	4,075
15,74,347	7,24,740	8,49,607	664	.....	110
97,107	49,815	47,292	118	.....	9
42,498	26,940	15,498	242	.....	100
5,200	4,350	850	34	.....	71
18,62,442	9,97,920	9,14,522	1,188	.....	4,865

COMBINATION OF FORMS NOS. 65 AND 66.—Account of Timber and depôts, sold locally or otherwise disposed

Name of Division 1	Balance at commencement of the year in forest and sale depôts		Received during the year
	2	3	4
NORTH WESTERN CIRCLE—contd.			
<i>Charcoal.</i>			
North Thana	2,394	1,595	3,315
East Thana	42,877	27,013	3,010
Total	45,271	28,608	6,325
Total, Fuel including Charcoal ...	15,22,727	34,156	3,91,311
<i>Sandalwood.</i>			
Panch Mahals ... ..	.....	.....	4
<i>Minor Forest Produce.</i>			
<i>Bamboos.</i>			
North Thana ... ..	.....	.....	1
West Thana ... ..	.....	.....	4
Surat Sub-Division ... ..	.....	5	.....
Total ... ..	.....	5	5
<i>Other Minor Forest Produce.</i>			
Panch Mahals ... ..	.....	.....	46,097
West Thana ... ..	.....	.....	22
Total ... ..	.....	.....	46,321
<i>Drift and waifwood and confiscated Forest Produce.</i>			
North Thana ... ..	.....	.....	408
East Thana ... ..	.....	.....	563
West Thana ... ..	.....	.....	1,540
Surat Sub-Division ... ..	.....	.....	23
Total ... ..	.....	.....	2,520
CENTRAL CIRCLE.			
Belgaum--			
Teak	1,86,952	5,37,487	87,182
Blackwood	4,888	10,993	10,333
Junglewood	1,63,077	2,63,261	1,63,644
Material purchased from the Supply Department--Junglewood ... ..	.....	.....	(a) 93,702
Total	3,54,917	8,16,747	3,53,416

other produce cut or collected by Government Agency and brought to of during the year 1946-47—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depôts		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
5,709	325	5,384	3,540	1,945	.....
45,887	44,872	1,015	10	.....	27,003
51,596	45,197	6,399	3,550	1,945	27,003
19,14,638	9,82,117	9,30,921	4,733	1,945	31,368
4	4	.....	.....	.....	.....
Rs.	Rs.	.....	.....	.....	.....
1	1	.....	.....	.....	.....
4	4	.....	.....	.....	.....
5	5	.....	.....	.....	5
10	10	.....	.....	.....	5
46,097	46,097	.....	.....	.....	.....
224	224	.....	.....	.....	.....
46,321	46,321	.....	.....	.....	.....
403	403	.....	.....	.....	.....
563	563	.....	.....	.....	.....
1,540	1,540	.....	.....	.....	.....
25	23	.....	.....	.....	.....
2,529	2,529	.....	.....	.....	.....
Net difference against the year = Rs. 90,080 North Western Circle.					
C.ft.	C.ft.				
2,74,134	66,882	2,07,252	18,96,123	12,98,636	.....
15,776	336	15,440	1,36,788	1,25,790	.....
3,26,721	26,793	2,99,928	10,30,721	7,62,459	.....
93,702	43,058	50,644	1,74,368	1,74,368	.....
7,10,333	1,37,069	5,73,264	31,78,000	23,61,253	.....

COMBINATION OF FORMS NOS. 65 AND 66.—Account of Timber and depôts, sold locally or otherwise disposed

Name of Division	Balance at commencement of the year in forest and sale depôts		Received during the year
	1	2	3
CENTRAL CIRCLE—contd.			
		C.ft.	Rs.
			C.ft.
Kolaba—			
Teak	42,215	4,222	12,298
Junglewood	13,292	23,437	66,471
Total ...	55,407	27,659	78,767
Poona—			
Teak	47	81	9,750
Junglewood ... ..	.....	.....	8
Total ...	47	81	9,758
Satara—			
Teak ... ..	.....	.....	81
Junglewood ... ..	.....	.....	2,492
Total ...	.....	.....	2,523
Total, Timber ...	4,10,471	8,44,437	4,46,464
<i>Firewood.</i>			
Fuel—			
Belgaum	60,21,510	9,03,227	19,40,957
Belgaum Pre-empted ... ..	.....	.....	(b)13,000
Kolaba	89,492	13,848	67,723
Poona	1,01,275	30,465	86,047
Satara	1,79,800	20,227	1,70,180
Total ...	63,42,177	9,67,702	22,77,912
<i>Charcoal.</i>			
Belgaum	15,621	13,389	3,39,708
Poona Pre-empted	1,262	1,105	.....
Satara	1,784	1,498	62,954
Total ...	18,667	15,992	4,02,662
Total, Fuel including Charcoal ...	63,60,844	9,83,694	26,80,574
<i>Sandalwood.</i>			
			Rs.
Belgaum ... ..	.....	83,546	83,690
Poona ... ..	.....	.....	792
Satara ... ..	.....	.....	702
Total ...	.....	83,546	85,184
<i>Minor Forest Produce.</i>			
Other Minor Forest Produce—			
Poona ... ..	.....	52	480

other produce cut or collected by Government Agency and brought to of during the year 1946-47—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forest and sale depôts		Difference in value	
		In favour of the year	Against the year	In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
54,511	32,824	22,187	2,219	.....	2,003
79,763	77,324	2,439	610	.....	22,827
1,34,274	1,09,648	24,526	2,829	.....	24,830
9,797	8,044	1,753	2,006	1,975	.....
8	8	.....	.....	.....	.....
9,805	8,052	1,753	2,006	1,975	.....
31	31	.....	.....	.....	.....
2,492	2,474	28	10	10	.....
2,523	2,455	28	10	10	.....
8,56,935	2,57,264	5,99,671	31,82,545	28,63,238	24,830
79,62,467	19,27,859	60,85,108	10,86,320	1,83,093	.....
13,000	.....	13,000	2,340	2,340	.....
1,07,220	42,008	65,217	33,283	19,440	.....
1,87,422	1,10,502	76,920	18,626	.....	11,749
8,48,980	1,79,105	1,70,575	19,313	.....	914
86,20,089	22,58,969	63,01,120	11,53,912	2,04,873	12,669
3,55,929	2,64,009	90,720	66,372	53,489	.....
1,262	1,262	.....	.....	.....	1,105
64,738	61,597	3,141	2,712	1,214	.....
4,21,329	3,27,468	93,861	69,584	54,697	1,105
90,41,418	25,86,437	64,54,981	12,29,436	2,59,570	19,768
Rs.	Rs.	.....	.....	.....	.....
1,67,236	87,018	.....	80,218	.....	3,328
792	542	.....	250	250	.....
702	692	.....	10	10	.....
1,68,730	89,252	.....	80,478	760	3,328
452	430	.....	52	.....	.....

(a) Excluded from form No. 62.

(b) Excluded from form No. 63 as the material has been accounted under agency of purchasers.

COMBINATION OF FORMS NOS. 65 AND 66.—Account of Timber and depôts, sold locally or otherwise disposed

Name of Division	Balance at commencement of the year in forest and sale depôts		Received during the year
1	2	3	4
CENTRAL CIRCLE— <i>contd.</i>			
<i>Drifts and sawwood and Confiscated Forest Produce.</i>			
Belgaum	.....	.....	9
SOUTHERN CIRCLE.			
C.ft.			
Rs.			
Rs.			
Kanara, Northern Division—			
Teak	9,90,600	23,95,967	11,17,563
Blackwood	48,772	63,253	58,058
Junglewood	3,53,846	5,32,836	4,15,978
Total	13,93,218	29,92,556	15,86,594
Kanara, Eastern Division—			
Teak	8,61,195	55,11,649	3,46,994
Blackwood	30,873	92,619	7,667
Junglewood	6,04,659	9,37,222	2,67,198
Total	14,96,727	65,41,490	6,21,859
Kanara, Western Division—			
Teak	7,839	23,517	15,504
Blackwood	910	1,820	932
Junglewood	1,33,474	2,00,211	9,23,227
Total	1,42,223	2,25,548	2,39,660
Dharwar-Bijapur Division—			
Teak	90,855	90,855	25,132
Blackwood	.....	.....	.....
Junglewood	160	53	47,720
Total	91,015	90,908	72,852
Total, Timber—			
Teak	19,50,459	80,22,988	15,05,190
Blackwood	80,555	1,57,692	61,652
Junglewood	10,92,139	16,89,822	9,54,122
Total	31,23,153	98,50,502	25,20,965
<i>Firewood.</i>			
Fuel—			
Kanara, Northern Division	9,48,863	2,37,315	3,59,637
Kanara, Eastern Division	4,84,715	1,00,669	15,200
Kanara, Western Division	.....	.....	.....
Dharwar-Bijapur Division	33,64,214	9,41,455	15,52,130
Total	47,97,792	12,79,339	19,27,033

Other produce cut or collected by Government Agency and brought to
of during the year 1946-47—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forest and sale depôts		Difference in value	
				In favour of the year	Against the year
5	6	7	8	9	10
Rs.	Rs.	C.ft.	Rs.	Rs.	Rs.
9	9	.....	.....	.....	.....
Net difference in favour of the year Rs. 25, 81,142 Central Circle.					
C.ft.	C.ft.				
21,08,163	9,34,858	11,53,805	41,97,614	18,00,647	.....
1,01,825	20,334	81,491	1,39,095	75,842	.....
7,69,824	1,93,037	5,76,787	9,01,142	3,65,806	.....
29,79,812	11,48,229	18,31,533	52,37,851	22,45,295	.....
12,08,189	2,26,442	9,81,747	63,42,082	8,30,433	.....
38,540	992	37,548	2,22,287	1,29,068	.....
8,71,557	2,87,773	5,84,084	18,59,866	9,02,644	.....
21,18,586	5,15,207	16,03,379	84,04,235	18,62,745	.....
28,340	1,902	21,438	64,814	40,797	.....
1,842	1,533	309	618	.....	1,202
3,56,761	3,06,576	50,125	75,188	.....	1,25,628
3,81,883	3,10,011	71,872	1,40,120	40,797	1,26,215
1,15,987	88,743	27,244	1,36,226	45,865	.....
47,380	42,674	5,206	10,412	10,359	.....
1,63,867	1,31,417	32,450	1,46,632	55,721	.....
1,54,070	12,51,945	22,08,734	1,07,40,236	27,17,242	.....
142,207	22,559	1,19,348	5,62,000	2,05,510	1,202
20,46,202	30,000	12,10,000	2,26,608	12,81,869	1,25,023
14,14	21,04,864	35, 9,284	1,39,28,835	42,04,561	1,26,225
108,500	5,10,000	7,98,500	1,91,643	.....	45,575
99,915	1,29,895	3,76,120	77,024	.....	23,845
10,16,409	39,24,000	9,92,400	2,62,572	.....	6,78,883
6,24,824	45,57, 04	21,66,920	5,31,236	.....	7,48,103

COMBINATION OF FORMS NOS. 55 AND 56.— *Account of Timber and depots, sold locally or otherwise disposed*

Name of Division	Balance at commencement of the year in forest and sale depots		Received during the year
	1	2	3
SOUTHERN CIRCLE—concl'd.	C. ft.	Rs.	C. ft.
<i>Charcoal.</i>			
Kanara, Eastern Division	24,300	12,785	.....
Kanara, Western Division	19,800	14,800	1,100
Dharwar-Bijapur	9,700	16,524	.....
Total	53,800	38,109	1,100
Total, fuel including Charcoal	48,51,592	18,17,448	19,29,132
<i>Sandalwood.</i>			
			Rs.
Kanara, Northern Division	.....	6,000	2,000
Kanara, Eastern Division	.....	47,760	29,614
Kanara, Western Division	.....	230	+ 559
Dharwar-Bijapur Division	.....	29,987	5,60,349
Total, Sandalwood	.....	82,977	5,92,522
+ Plus figure against			
<i>Minor Forest Produce.</i>			
<i>Bamboos.</i>			
Kanara, Western Division	.....	.....	4
<i>Other Minor Forest Produce.</i>			
Dharwar-Bijapur Division	.....	.....	50
<i>Drift and Waifwood and confiscated Forest Produce</i>	.....	.....	Nil
Net difference in favour			
Silvicultural—			
Sandalwood	.....	.....	5
Other Minor Forest Produce	.....	.....	52
Additional Director of Civil Supplies—			
Other Minor Forest Produce	.....	.....	8,93,016
Grand Total, Bombay Province—	C. ft.	Rs.	C. ft.
Timber and fuel	1,74,75,184	1,34,26,789	86,00,177
	Rs.	Rs.	Rs.
Sandalwood and other minor Forest Produce	.....	1,06,588	16,28,602
Net difference in favour			

Note.—Charcoal has been shown in Form 63 by its equivalent in fuel, the quantity

other produce cut or collected by Government Agency and brought to of during the year 1946-47—concl'd.

Total	Disposed of during the year	Balance in hand at close of the year in forest and sale depots		Difference in value	
		7	8	In favour of the year	Against the year
5	6			9	10
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
24,300	3,303	21,000	15,290	2,505	.....
20,900	19,800	1,100	861	.....	13,939
9,700	9,700	.....	.....	.....	10,524
54,900	32,800	22,100	16,151	2,505	24,463
67,79,724	45,90,704	21,89,020	5,47,387	2,505	7,72,566
Rs.	Rs.				
8,000	5,912	.....	2,000	.....	4,000
77,374	+ 88	.....	47,108	.....	652
789	30,266	.....	.....	.....	230
5,89,336	230	.....	.....	.....	.....
	+ 559	.....	3,68,013	3,39,026	.....
6,75,499	2,21,323	.....	4,17,121	3,39,026	4,882
	2,58,378	.....		
Sandalwood represent the difference between the revenue and actual.					
4	4	.....	.....	.....	.....
50	50	.....	.....	.....	.....
of the year Rs.	36,42,419	Southern Circle.			
5	5	.....	.....	.....	.....
62	62	.....	.....	.....	.....
8,93,046	8,93,046	.....	.....	.....	.....
C. ft.	C. ft.	C. ft.			
260,07,961	1,15,18,818	1,44,89,643	1,92,33,666	70,04,323	11,97,449
Rs.	Rs.	Rs.			
17,95,280	12,97,629	.....	4,97,651	3,39,266	8,223
of the year Rs.	61,87,942	Province of Bombay.			

of wood consumed in producing it.

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	N. W. C. Direction	Panch Mahals Division	Sural Sub- Division	North Thana Division
NORTHWESTERN CIRCLE				
REVENUE				
X.—Forest.				
<i>I.—Timber and other produce removed from the forest by Government Agency—</i>				
a. Timber	2,46,612 11 0	6,105 0 0	3,55,993 9 0
b. Firewood and charcoal	7,886 12 0	160 0 0	17,704 2 9
c. Bamboos	1 4 0
d. Sandalwood	3 8 0	.....	.....
e. Grass and other minor produce.	46,096 8 9	.....	.....
Total I	3,00,599 7 9	6,265 8 0	3, 698 9 9
<i>II.—Timber and other produce removed from the forest by consumers or purchasers—</i>				
a. Timber	9,40,139 6 0	8,76,567 14 6	39,86,519 14 9
b. Firewood and charcoal	2,892 14 0	5,693 0 0	3,339 2 3
c. Bamboos	1,779 9 0	23,513 6 0	15,996 5 6
d. Grazing and fodder grass	20,068 0 0	1,096 8 0	5,371 4 0
e. Other minor produce	26,678 12 0	4,769 3 0	2,443 1 0
f. Other Items
g. Commutation fees
Total II	9,91,651 9 0	9,10,939 12 9	40,13,668 11 6
<i>III.—Drift and waif wood and confiscated forest produce.</i>				
Total III	23 0 0	403 5 0
<i>IV.—Revenue from forest not managed by Government—</i>				
a. Duty on foreign timber and other forest produce.
b. Revenue from shared and private forest.
Total IV
<i>V.—Miscellaneous—</i>				
a. Fines and forfeitures	39 12 0	2,520 8 0	12,422 12 0
b. Refunds	15 1 0	.....	196 7 0
c. Other sources	150 10 0	37,650 5 1	6,047 3 11	20,190 7 3
d. Recoveries of Establishment Charges.	32 8 0	.....	1,071 1 0
Total V	150 10 0	37,689 10 1	8,567 11 11	26,880 11 3
Gross Total Revenue	150 10 0	13,30,240 10 10	9,25,796 0 8	44,24,651 5 6
Deduct—Refunds	2,17,374 10 9	85 0 0	1,259 12 0
Net Revenue	150 10 0	11,12,866 0 1	9,25,761 0 8	44,23,351 9 6

of the different Divisions for the financial year 1946-47.

East Thana Division	West Thana Division	Division	Division	o ing Plans Division.	Total for 1946-47
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
8,861 12 0	12,350 1 0	.....	.....	.....	6,24,922 11 0
344 10 0	2,381 1 0	.....	.....	.....	28,377 1 9
.....	3 12 0	.....	.....	.....	5 0 0
.....	.....	.....	.....	.....	3 8 0
.....	224 0 0	.....	.....	.....	46,820 8 9
4,906 6 0	14,858 14 0	.....	.....	.....	6,99,523 13 6
15,76,189 7 0	22,88,163 8 0	.....	.....	.....	96,67,513 2 3
2,289 4 0	2,528 10 0	.....	.....	.....	15,742 14 3
3,766 8 6	12,760 13 3	.....	.....	.....	57,116 10 3
491 0 0	191 0 0	.....	.....	.....	27,217 12 0
6,300 9 0	7,490 11 6	.....	.....	.....	47,681 1 9
.....
.....
15,88,976 12 6	23 11,134 10 9	.....	.....	.....	98,16,271 8 6
562 8 0	1,539 10 6	.....	.....	.....	2,628 7 6
562 8 0	1,539 10 6	.....	.....	.....	2,538 7 6
.....
1,896 12 4	2,009 6 0	.....	.....	.....	3,906 2 4
1,896 12 4	2,009 6 0	.....	.....	.....	3,906 2 4
20,657 0 0	10,495 8 0	.....	.....	.....	46,487 8 0
31 7 0	1 8 0	.....	.....	.....	244 7 0
11,493 3 3	21,019 13 0	.....	.....	.....	96,491 10 6
240 6 0	53 11 0	.....	.....	.....	4,397 10 0
32,362 0 3	31,570 8 0	.....	.....	.....	1,47,621 3 6
16,28,004 7 1	23,61,113 1 3	.....	.....	.....	1,06,69,556 3 4
3,019 7 0	5,023 5 6	.....	.....	.....	2,26,722 3 3
16,24,955 0 1	23,56,089 11 9	.....	.....	.....	1,04,43,234 0 1

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	N. W. C. Direction	Panch Mahals Division	Surat Sub- Division	North Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST				
B.—CONSERVANCY AND WORKS.				
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>				
a. Timber ... ..	.....	4,346 1 6	5,181 10 0	87,820 14 0
b. Firewood and charcoal ... ..	.....	1,204 6 0	715 6 0	71,856 3 3
c. Bamboos ... ..	.....	.....	.....	12 8 0
d. Sandalwood ... ..	.....	.....	.....	.....
e. Grass and other minor produce. ....	.....	978 3 0	.....	.....
Total, B—I ... ..	.....	6,528 10 6	5,897 0 0	1,59,689 9 3
<i>II.—Timber and other produce removed from the forests by consumers or purchasers.</i>				
Total, B—II ... ..	.....	8,940 0 0	7,727 5 9	43,406 13 3
<i>III.—Live stock, Stores, Tool and Plant—</i>				
a. Purchase of cattle ... ..	.....	.....	.....	.....
b. Feed and upkeep of cattle ... ..	.....	.....	.....	.....
c. Purchase of stores, tools and plant.	1,134 13 6	252 14 0	282 4 0	1,411 7 0
d. Customs duty ... ..	.....	.....	.....	.....
Total, B—III	1,134 13 6	252 14 0	282 4 0	1,411 7 0
<i>IV.—Communications and Buildings—</i>				
a. Railways and Tramways ... ..	.....	.....	.....	.....
b. Roads and bridges (other than those in connection with Railways and Tramways). ....	.....	55 0 0	557 8 0	540 9 9
c. Buildings ... ..	.....	1,779 7 0	1,519 1 0	2,244 1 0
d. Other works	8 2 9	310 0 0	452 0 0	2,790 5 0
Total, B—IV	8 2 9	2,144 7 0	2,628 9 0	5,574 15 9

of the different Divisions for the financial year 1946-47—contd.

East Thana Division.	West Thana Division.	Division.	Division.	Working Plans Division.	Total for 1946-47.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs.	Rs. a. p.
1,996 3 0	2,123 3 0	.....	.....	.....	1,01,526 15 6
2,259 8 0	117 8 0	.....	.....	.....	75,162 10 3
.....	.....	.....	.....	.....	12 8 0
.....
.....	.....	.....	.....	.....	978 3 0
4,255 6 0	2,299 11 0	.....	.....	.....	1,78,680 4 9
50,530 9 6	58,983 14 0	.....	.....	.....	2,14,588 10 6
50,530 9 6	58,983 14 0	.....	.....	.....	2,14,588 10 6
.....
.....
582 3 6	1,466 1 0	.....	.....	.....	6,129 11 0
.....
582 3 6	1,466 1 0	.....	.....	.....	6,129 11 0
.....
3,055 8 6	3,309 7 0	.....	.....	.....	7,518 1 3
4,388 2 6	5,317 6 3	.....	.....	.....	15,348 1 9
205 8 0	560 13 0	.....	.....	.....	4,325 12 9
7,649 3 0	9,187 10 3	.....	.....	.....	27,192 15 9

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head	N. W. C. Direction	Panch Mahals Division	Surat Sub- Division	North Thanes Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST				
B.—CONSERVANCY AND WORKS—contd.				
<i>V.—Organisation, improvement and extension of forests—</i>				
a. Demarcation	399 9 0	1 11 0	699 5 6
b. Forest Settlement
c. Surveys
d. Working Plans
e. Plantations	2,828 2 0	.....	4,511 5 6
f. Reproduction	3,907 15 6	1,425 1 6	17,557 0 6
g. Fire protection	4,133 4 6	5,330 12 0	6,310 15 3
h. Other works	1,096 12 3	.....	606 12 9
Total, B—V	12,365 10 9	6,658 6 6	29,585 7 6
<i>VI.—Miscellaneous—</i>				
a. Rent of leased forests and payments to shareholders in forests managed by Government.
b. Law charges
c. Graincompensation allowance.
d. Clothing	4,330 7 0	732 4 0	3,006 8 0
e. Famine fodder charges	40 2 6	.....	.....
f. Other charges	225 0 0	4 8 0	181 12 0
Total, B—VI	4,595 9 6	736 12 0	3,188 4 0
<i>VII.—Suspense—</i>				
a. Work advances	-64 0 0
Total, B—VII	-64 0 0
<i>VIII.—Demarcation of boundaries (between British territory and Indian States).</i>				
Total B—Conservancy and Works ...	1,143 5 3	34,527 8 9	23,990 5 3	2,42,793 8 9

of the different Divisions for the financial year 1946-47—contd.

East Thana Division	West Thana Division	Division	Division	Working Plans N. C.	Total for 1946-47
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
522 13 0	300 0 0	.....	.....	.....	1,923 5 6
.....
.....
.....
21 10 0	95 10 0	.....	.....	.....	7,456 11 6
4,178 9 3	8,469 8 9	.....	.....	.....	35,537 1 6
3,381 4 9	6,103 13 6	.....	.....	.....	25,160 1 6
.....	1 2 0	.....	.....	.....	1,604 11 0
8,102 5 0	14,970 2 3	.....	.....	.....	71,682 0 0
7,384 11 0	.....	.....	.....	.....	7,384 11 0
.....	283 0 0	.....	.....	.....	283 0 0
.....
2,936 7 0	2,123 8 0	.....	.....	.....	19,429 2 0
.....	.....	.....	.....	.....	40 2 6
57 13 0	562 12 0	.....	.....	.....	1,031 12 0
9,678 14 0	2,969 4 0	.....	.....	.....	21,168 11 6
.....	.....	.....	.....	.....	-64 0 0
.....	.....	.....	.....	.....	-64 0 0
.....
1,21,808 9 0	94,876 10 6	.....	.....	.....	6,13,373 5 6

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	N. W. O. Direction	Panch Mahala Division	Surat Sub- Division	North Thana Division
EXPENDITURE—10, FOREST— <i>contd.</i>	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
C.—ESTABLISHMENT				
A.—GENERAL DIRECTION				
I.—Pay of Officers—				
a. Chief Conservator or Conservators.	.....	.....	.....	.....
b. Superior officers plus personal and special pay—Charged	.....	.....	.....	.....
Superior officers plus personal and special pay—Voted	2,011 10 0	3,163 9 0	4,535 15 0	8,853 4 0
c. Leave salary—Charged	.....	.....	404 6 0	.....
Voted	.....	.....	.....	.....
Total, C.—I { Charged ...	2,011 10 0	3,163 9 0	4,940 5 0	8,853 4 0
{ Voted ...				
II.—Pay of Establishment—				
a. Subordinate forest and depot establishment plus special and personal pay.	.....	45,402 7 0	18,950 4 0	73,477 3 0
b. Office establishment plus special and personal pay.	393 14 0	7,100 7 0	5,159 4 0	13,114 8 0
c. Proficiency allowance	334 11 0	2,772 14 0	733 12 0	5,197 9 0
d. Temporary establishment plus special pay.	.....	3,579 9 0	805 8 0	4,079 4 0
e. Leave salary	.....	.....	.....	.....
Total, C.—II	798 9 0	59,855 5 0	25,648 12 0	95,868 8 0
III.—Allowances, Honoraria, etc.—				
a. Compensatory allowances—Charged	.....	.....	.....	.....
Voted	.....	10,315 11 0	3,626 0 0	11,315 0 0
b. Travelling allowance—Charged	.....	.....	.....	.....
Voted	795 1 0	15,499 14 0	5,858 2 0	23,300 14 0
c. Plague allowance—Voted	.....	.....	.....	.....
d. House-rent allowance—Charged	.....	.....	.....	.....
Voted	.....	1,921 2 0	194 4 0	1,188 12 0
e. Forest training	.....	.....	.....	.....
f. Grain compensation	.....	.....	.....	.....
g. Cost of passages granted under the Superior Service Rules, 192—Charged	329 6 0	46,522 14 0	16,203 13 0	69,622 13 0
Voted	364 15 0	723 13 0	904 6 0	1,791 3 0
Total, C.—III { Charged ...	.....	.....	.....	.....
{ Voted ...	1,403 6 0	72,919 6 0	26,791 9 0	1,00,708 10 0
IV.—Contingencies—				
a. Stationery	31 6 0	21 3 0	91 9 0	154 6 0
b. Carriage of tents and records	41 10 0	429 3 0	297 10 0	1,002 2 0
c. Rents, rates and taxes	98 0 0	1,263 0 0	2 14 8	5 1 0
d. Service postage and telegram charges.	400 0 0	2,600 2 6	1,130 3 0	3,515 15 0
e. Sundries	218 13 6	1,735 14 0	444 14 6	955 7 6
Total, C.—IV	789 13 6	6,042 6 6	1,957 3 1	5,643 15 6
V.—Establishment charges recoverable from other Governments, Department, etc.—	.....	.....	.....	.....
Total V	.....	.....	.....	.....
TOTAL, C.—ESTABLISHMENT	4,933 6 6	1,41,987 10 6	59,337 13 1	2,11,073 5 6

of the different Divisions for the financial year 1946-47—contd.

East Thana Division	West Thana Division	Division	Division	Working Plans N. C. Division	Total for 1946-47
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
.....
4,333 8 0	10,770 5 0	.....	.....	763 12 0	34,451 15 0
212 15 0	.....	.....	.....	.....	617 5 0
.....
4,546 7 0	10,770 5 0	.....	.....	783 12 0	35,069 4 0
.....
60,177 6 0	76,733 10 0	.....	.....	.....	2,81,690 14 0
11,767 5 0	11,111 7 0	.....	.....	.....	48,646 18 0
1,105 1 0	3,013 2 0	.....	.....	56 0 0	12,213 1 0
4,730 7 0	4,135 6 0	.....	.....	.....	17,380 2 0
.....
83,780 3 0	93,993 9 0	.....	.....	58 0 0	3,59,930 14 0
.....
7,505 0 0	18,373 10 0	.....	.....	.....	61,634 5 0
.....
21,009 5 0	21,573 12 0	.....	.....	164 8 0	86,062 8 0
.....
3,665 11 0	4,589 8 0	.....	.....	.....	11,559 5 0
.....	466 7 0	.....	.....	.....	466 7
.....
64,939 0 0	62,368 0 0	.....	.....	80 0 0	2,53,064 14 0
1,138 8 0	4,742 2 0	.....	.....	264 0 0	9,913 15 0
.....
98,257 8 0	1,12,112 7 0	.....	.....	508 8 0	4,12,701 6 0
.....
59 2 0	27 2 0	.....	.....	.....	384 12 0
523 2 0	421 4 0	.....	.....	.....	3,703 15 0
196 14 0	1,473 0 4	.....	.....	.....	3,044 14 0
3,996 10 9	2,350 2 0	.....	.....	.....	12,993 1 6
1,082 0 11	865 5 11	.....	.....	.....	5,313 8 0
4,856 13 8	5,132 14 3	.....	.....	.....	24,439 2 6
.....
.....
.....
1,01,440 15 8	2,22,019 3 3	.....	.....	1,348 4 0	8,32,140 10 6

FORM No. 58.—Summary of Revenue and Expenditure

Budget Head	N. W. C. Direction	Panch Mahals Division	Surat Sub- Division	North Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST— <i>contd.</i>				
E.—POST WAR RECONSTRUCTION AND DEVELOPMENT				
I—CONSERVANCY AND WORKS				
<i>I.—Organization, improvement and extension of forests—</i>				
<i>a. Demarcation</i>
<i>b. Forest Settlement</i>
<i>c. Survey</i>
<i>d. Working Plans</i>
<i>e. Plantations</i>	5,056 0 0	.....
<i>f. Reproduction</i>
<i>g. Fire protection</i>
<i>h. Other works</i>
Total, E—I	5,056 0 0	.....
<i>II.—Communications and Build- ings—</i>				
<i>a. Railways and Tramways</i>
<i>b. Roads and bridges</i>
<i>c. Buildings</i>
<i>d. Other works</i>
Total, E—II
<i>III.—Live-stock Stores, tools and plant—</i>				
<i>a. Purchase of cattle</i>
<i>b. Feed and upkeep of cattle</i>
<i>c. Purchase of stores, tools and plant.</i>	92 0 0	.....
<i>d. Customs duty</i>
Total, E—III	92 0 0	.....
<i>IV.—Miscellaneous—</i>				
<i>a. Rent of leased forest and Pay- ments to share-holders in forests managed by Govern- ment.</i>
<i>b. Law charges</i>
<i>c. Grain Compensation allowance.</i>
<i>d. Clothing</i>
<i>e. Famine Fodder charges</i>
<i>f. Other charges</i>
Total E—IV
Total E—(I Conservancy and works.	5,148 0 0	.....

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head	N. W. C. Division	Panch Mahal Division	Surat sub- Division	North Thana Division
EXPENDITURE—contd.				
II.—ESTABLISHMENT				
I.—Pay of Officers—				
a. Conservators { Charged Voted
b. Superior Officers plus personal and special pay—Voted	581 0 0	.....
c. Leave salary	404 0 0	.....
Total I { Charged Voted	985 0 0	.....
II.—Pay of Establishment—				
a. Subordinate Forest and Depot Establishment plus special and personal pay.	1,084 0 0	.....
b. Office Establishment plus Special and personal pay.	90 0 0	.....
c. Proficiency allowance
d. Temporary Establishment plus special pay.	48 0 0	.....
e. Leave salary
Total II	1,222 0 0	.....
III.—Allowances, Honoraria, etc.—				
a. Compensatory allowance— Voted
b. Travelling allowance—Voted	420 0 0	.....
d. House rent allowance
e. Forest Training
f. Grain compensation
g. Dearness allowance	914 0 0	.....
j. Cost of living allowance	200 0 0	.....
Total III { Charged Voted	1,534 0 0	.....
IV.—Contingencies—				
a. Stationery
b. Carriage of tents and records
c. Rents, rates and taxes
d. Service postage and telegram charges.
e. Sundries
Total IV
TOTAL II ESTABLISH- MENT. { Charged Voted	3,741 0 0	.....
TOTAL "E" POST-WAR RECON- STRUCTION AND DEVELOPMENT.	8,889 0 0	.....
GRAND TOTAL OF ALL EXPEN- DITURE	6,076 6 9	1,76,814 14 3	92,157 2 4	4,53,865 14 3
Surplus or deficit	-5,925 12 9	+9,36,051 1 10	+8,33,603 14 4	+39,69,515 11 3

of the different Divisions for the financial year 1946-47—contd.

East Thana Division	West Thana Division	Division	Division	Working Plans Division	Total for the year 1946-47
.....
.....	7,543 0 0	8,124 0 0
.....	583 0 0	987 0 0
.....	8,126 0 0	9,111 0 0
.....	6,159 0 0	7,243 0 0
.....	2,465 0 0	2,555 0 0
.....
.....	4,508 0 0	4,356 0 0
.....	790 0 0	700 0 0
.....	15,722 0 0	14,944 0 0
.....	240 0 0	240 0 0
.....	10,926 0 0	11,316 0 0
.....
.....
.....	5,774 0 0	6,668 0 0
.....	1,546 0 0	1,746 0 0
.....	16,466 0 0	20,020 0 0
.....	101 0 0	101 0 0
.....	688 0 0	588 0 0
.....	269 0 0	263 0 0
.....	402 0 0	402 0 0
.....	128 0 0	128 0 0
.....	1,488 0 0	1,488 0 0
.....	41,224 0 0	45,563 0 0
.....	44,237 0 0	53,126 0 0
3,11,245 8 8	3,16,695 13 9	.....	.....	45,556 4 0	14,03,645 0 0
-13,12,735 7 5	+20,39,193 14 0	.....	.....	-45,566 4 0	+90,39,689 0 1

FORM No. 68—Summary of Revenue and Expenditure

Budget Head	Direction	Division East Nasik	Division West Nasik	Division East Khandesh
NORTH EASTERN CIRCLE	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
REVENUE				
X.—Forest.				
I.—Timber and other produce removed from the Forest by Government agency—				
a. Timber	.....	73 8 0	65,575 0 0	486 8 0
b. Firewood and charcoal	.....	13 8 0	1,29,024 11 0	2,243 8 0
c. Bamboos	.....	.....	61 8 0	.....
d. Sandalwood	.....	6 8 0	1,372 15 6	12 0
e. Grass and other minor produce.	.....	.....	6,039 14 0	.....
Total I	.....	96 8 0	2,02,074 0 6	2,730 12 0
II.—Timber and other produce removed from the Forest by consumer or purchasers—				
a. Timber	.....	97,998 1 0	6,41,607 0 9	1,29,929 4 0
b. Firewood and charcoal	.....	93,259 4 0	2,636 5 0	1,38,147 14 0
c. Bamboos	.....	45 15 0	6,754 2 0	15,718 1 6
d. Grazing and fodder grass	.....	13,504 0 0	19,454 0 0	67,242 15 9
e. Other minor produce	.....	13,291 3 3	13,679 12 0	26,667 12 0
f. Other items	.....	.....	.....	.....
g. Commutation fees	.....	.....	.....	.....
Total II	.....	2,24,089 7 3	7,34,191 4 9	3,77,905 16 3
III.—Drift and waste wood and confiscated Forest produce	.....	258 2 0	665 15 0	.....
Total III	.....	258 2 0	665 15 0	.....
IV.—Revenue from Forest not managed by Government—				
a. Duty on foreign timber and other Forest produce.	.....	.....	.....	15,618 8 0
b. Revenue from shared and private Forest.	.....	.....	.....	.....
Total IV	.....	.....	.....	15,618 8 0
V.—Miscellaneous—				
a. Fines and forfeiture	.....	3,103 13 0	9,208 0 0	24,113 8 0
b. Refunds	.....	19 3 0	14 8 0	8 0
c. Other sources	2,281 0 0	31,436 15 0	21,326 11 6	21,187 6 0
d. Recoveries of establishment charges	.....	.....	.....	.....
e. Leave contribution	.....	.....	.....	.....
Total	2,281 0 0	31,559 15 0	30,549 3 6	45,391 8 0
VI.—Transfer from the Deposits account of the special Development Programme.	.....	.....	.....	7,662 8 0
Gross Total Revenue	2,281 0 0	2,59,014 0 3	9,67,470 7 9	4,45,620 3 3
Deduct—Refund	.....	599 15 0	752 0 0	236 0 0
Net Revenue	2,281 0 0	2,58,414 1 3	9,66,718 7 9	4,45,384 3 3

of the different Divisions for the financial year 1946-47—contd.

Division West Khandesh	West Khandesh Sub-Division	Division	Division	Total for 1946-47
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
53,904 8 0	11,448 15 0	.....	.....	1,31,491 0 0
82,001 14 0	46 0 0	.....	.....	2,13,329 9 0
.....	.....	.....	.....	61 8 0
.....	9 1 3	.....	.....	1,389 4 9
.....	.....	.....	.....	6,039 14 0
1,35,906 6 0	11,504 0 3	.....	.....	3,57,311 10 9
10,24,566 7 0	1,90,727 3 6	.....	.....	20,24,548 0 3
6,061 13 0	37,725 4 0	.....	.....	2,77,869 8 0
11,165* 1 0	2,972 10 9	.....	.....	56,655 15 3
3,881 14 0	73,171 14 0	.....	.....	2,27,254 11 9
45,095 12 0	27,582 4 9	.....	.....	1,32,916 12 0
.....
10,90,790 15 0	3,32,577 6 0	.....	.....	27,59,544 15 3
95 0 0	.....	.....	.....	1,029 1 0
95 0 0	.....	.....	.....	1,029 1 0
7,937 10 0	10,159 8 0	.....	.....	33,715 10 0
.....
7,937 10 0	10,159 8 0	.....	.....	33,715 10 0
6,221 0 0	3,583 12 0	.....	.....	46,230 1 0
18 9 0	12 12 0	.....	.....	66 11 0
16,640 4 6	36,082 6 3	.....	.....	1,29,954 13 3
609 0 0	.....	.....	.....	600 0 0
80 14 0	.....	.....	.....	80 14 0
21,560 11 6	39,672 1 3	.....	.....	1,75,931 7 3
.....	.....	.....	.....	7,063 8 0
17,58,280 10 6	3,93,919 14 6	.....	.....	33,99,696 4 3
721 15 0	66 0 0	.....	.....	3,376 4 0
12,57,563 13 6	3,93,863 6 6	.....	.....	33,37,320 0 3

FORM No. 68—Summary of Revenue and Expendi

Budget Head.	Direction.	Division East Nasik.	Division West Nasik.	Division Khande.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a.
EXPENDITURE—10. FOREST.				
B—CONSERVANCY AND WORK.				
<i>I.—Timber and other produce removed from the Forest by Government Agency—</i>				
a. Timber	156 9 0	22,807 6 9	.....
b. Firewood and charcoal	788 15 0	66,436 12 3	608 11
c. Bamboos	39 8 0	.....
d. Sandalwood
e. Grass and other minor produce.
Total B-I	945 8 0	89,283 11 0	808 13
<i>II.—Timber and other produce removed from the Forests by consumers or purchasers.</i>				
Total B-II	3,534 6 3	4,957 0 6	2,800 0
<i>III.—Live-stock, stores, tools and plant—</i>				
a. Purchase of cattle
b. Feed and upkeep of cattle
c. Purchase of stores, tools and plant.	623 8 0	795 5 6	229 6
d. Customs duty
Total B-III	623 8 0	795 5 6	229 6
<i>IV.—Communications and Buildings—</i>				
a. Railways and Tramways
b. Roads and bridges (other than those in connection with Railways and Tramways).	524 3 6	10,913 11 6	4,366 15
c. Buildings	353 7 6	1,879 10 9	3,120 15
d. Other works	25 0 0	116 0 0	116 2
Total B-IV	902 11 0	12,909 6 3	7,506 1
<i>V.—Organization, improvement and extension of Forests—</i>				
a. Demarcation	269 14 0	209 12 0	91 0
b. Forest Settlement
c. Surveys
d. Working Plans
e. Plantations	25 0 0	.....	106 6
f. Reproduction	1,486 15 0	2,736 9 6	999 14
g. Fire protection	1,778 8 0	.....	2,195 4
h. Other works	195 0 0	.....	601 2
Total B-V	3,768 5 0	2,939 5 6	3,352 10

of the different Divisions for the financial year 1946-47—contd.

Division West Khandesh.	Division West Khandesh Sub- Division.	Division.	Division.	Total for 1946-47.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
39,375 15 0	3,153 6 0	.....	.....	64,493 4 9
17,118 9 0	21 4 0	.....	.....	85,174 5 9
.....	.....	.....	.....	39 8 0
.....
.....
55,494 8 0	3,174 10 0	.....	.....	1,49,707 2 6
9,215 7 0	6,160 13 3	.....	.....	26,697 11 6
9,215 7 0	6,160 13 3	.....	.....	26,697 11 6
.....
.....
419 4 6	104 4 6	.....	.....	2,171 12 6
.....
419 4 6	104 4 6	.....	.....	2,171 12 6
.....
8,202 13 6	4,377 12 0	.....	.....	26,387 8 0
5,394 0 6	3,576 13 3	.....	.....	14,324 15 6
262 13 3	10 0 0	.....	.....	529 15 3
13,859 11 3	5,964 9 3	.....	.....	41,242 6 9
.....	1,353 2 3	.....	.....	1,962 12 3
.....
.....
.....
.....	906 15 6	.....	.....	1,041 6 6
26 8 0	42 1 0	.....	.....	4,591 16 6
4,458 6 0	1,581 10 0	.....	.....	9,943 12 0
3,365 16 0	52 4 0	.....	.....	4,317 5 0
7,850 13 0	3,966 0 9	.....	.....	21,757 2 3

FROM No. 68—Summary of Revenue and Expenditure

Budget Head.	Direction.	Division East Nasik	Division West Nasik.	Division East Khandvab.
EXPENDITURE 10, FOREST —contd.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
VI.—Miscellaneous—				
a. Rent of leased forests and payments to shareho de s in forests managed by Government.	.....	.....	.....	.....
b. Law charges	.....	.....	.....	.....
c. Grain Compensation allowance.	.....	.....	.....	.....
d. Clothing	.....	2,478 15 0	1,554 8 0	2,385 6 0
e. Famioe Fodder charges	.....	.....	.....	.....
f. Other charges	.....	.....	52 4 0	55 6 0
Total B-VI	.....	2,478 15 0	1,606 12 0	2,393 12 0
VII.—Suspense—				
a. Work advances	.....	.....	.....	.....
Total B-VII	.....	.....	.....	.....
VII.—Demarcation of boundaries (between British territory and Indian States).	.....	.....	.....	.....
IX.—Contribution for Subir Road.—	.....	.....	.....	.....
Total B-Conservancy and works	.....	12,263 5 3	1,12,521 8 9	17,070 11 0
C.—ESTABLISHMENT				
A—General Direction				
I.—Pay of Officers—				
a. Chief Conservator or Conservators.	21,890 0 0	.....	.....	.....
b. Superior Officers plus personal and special pay.	{ Charged... .. Voted ... 2,540 0 0	..... 4,008 9 0	..... 8,462 4 0	..... 3,561 2 0
c. Leave Salary	{ Charged... .. Voted ... 423 7 0	..... .....	..... 1,132 4 0	..........
Total I	{ Charged... 21,890 0 0 Voted ... 2,963 7 0	..... 4,008 9 0	..... 9,594 8 0	..... 3,561 2 0
II.—Pay of Establishment—				
a. Subordinate Forest and depot Establishment plus special and personal pay.	.....	85,937 8 0	47,379 8 0	50,872 15 0
b. Office Establishment plus special and personal pay.	6,543 10 0	8,482 18 0	9,876 6 0	12,266 11 0
c. Proficiency allowance	.....	.....	.....	.....
d. Temporary Establishment plus special pay.	4,739 10 0	1,069 9 0	1,406 13 0	1,233 7 0
e. Leave Salary	1,029 11 0	3,406 8 0	4,066 10 0	4,308 10 0
Total II	12,372 15 0	49,125 1 0	62,548 2 0	68,481 11 0

of the different Divisions for the financial year 1946-47—contd.

Division West Khandesh.	Division West Khandesh Sub- Division.	Division.	Division.	Total for 1946-1947.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
.....
.....
9,609 9 0	9496 14 0	.....	.....	11,560 13 0
.....
103 9 0	61 0 0	.....	.....	962 8 0
2,795 11 0	2,547 14 0	.....	.....	11,823 0 0
.....
.....
.....
90 0 0	.....	.....	.....	90 0 0
89,545 6 9	91,918 5 9	.....	.....	2,58,309 3 6
.....
.....	.....	.....	.....	21,690 0 0
.....
19,626 11 0	3,156 15 0	.....	.....	24,454 9 0
.....
976 9 0	.....	.....	.....	2,532 4 0
.....	.....	.....	.....	21,890 0 0
13,609 4 0	3,356 15 0	.....	.....	25,996 13 0
.....
48,980 12 0	40,053 15 0	.....	.....	2,22,467 9 0
.....
9,696 2 0	8,908 3 0	.....	.....	65,675 13 0
.....
1,547 8 0	949 0 0	.....	.....	10,944 18 0
.....
4,819 8 0	4,968 15 0	.....	.....	22,878 14 0
.....
64,445 14 0	54,828 1 0	.....	.....	3,11,856 12 0

FORM No. 68—Summary of Revenue and Expenditure

Budget Head.	Direction,	Division East Nasik.	Division West Nasik.	Division East Khandesh.
EXPENDITURE—10 FOREST —contd.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
<i>III—Allowances, Honoraria, etc.—</i>				
a. Compensatory Allowances. { Charged... { Voted ...	..... 1,805 0 0	..... 7,895 5 0	..... 90 0 0	..... 10,890 0 0
b. Travelling allowance. { Charged... { Voted ...	5,379 7 0 1,993 0 0	..... 13,573 2 0	..... 15,929 6 0	..... 18,308 3 0
c. Plague allowance (Voted) ...	.....	.....	.....	.....
d. House rent allowance. { Charged... { Voted ...	..... .....	..... 3,793 3 0	..... 493 5 0	..... 4,627 10 0
e. Forest Training ...	.....	.....	.....	.....
f. Grain compensation ...	.....	.....	.....	.....
g. Cost of living allowance. { Charged... { Voted ...	4,535 4 0 779 10 0	..... 697 5 0	..... 3,208 4 0	..... 628 9 0
Dearness allowance ...	5,739 0 0	35,580 5 0	52,547 7 0	46,512 13 0
Total III { Charged ... { Voted ...	10,015 5 0 9,646 10 0	..... 60,544 4 0	..... 72,267 6 0	..... 80,802 3 0
<i>IV.—Contingencies—</i>				
a. Stationery ...	23 2 3	134 5 0	135 2 0	62 6 0
b. Carriage of tents and records. Other-non contract contingencies.	430 9 6	455 1 0	490 6 0	239 5 6
c. Rents rates and taxes ...	251 8 6	11 6 0	67 0 0	98 14 0
d. Service postage and telegram charges.	800 14 0	2,000 8 6	1,501 2 6	2,392 11 9
e. Sundries ...	757 5 7	469 15 9	1,009 7 0	623 3 6
Total IV ...	2,963 7 10	3,069 4 3	3,258 1 6	3,416 8 3
<i>V.—Establishment charges recoverable from other Governments Department, etc.—</i>	1,048 0 0	.....	.....	.....
(a) Deduct—Amount recoverable from Raisingpur Estate on account of pay of Rangers, etc.	.....	.....	.....	.....
Establishment charges payable to Central Government Revenue Department.	.....	.....	.....	.....
Deduct.—Establishment charges recoverable from contractors, etc. on account of pay of guards, etc. Excise Department.	.....	.....	.....	.....
Total V ...	1,048 0 0	.....	.....	.....
TOTAL C—ESTABLISHMENT ...	68,103 12 10	1,16,747 2 3	1,47,663 1 6	1,56,261 8 3

of the different Divisions for the financial year 1946-47—contd.

Division West Khandesh.	Division West Khandesh Sub. Division.	Division.	Division.	Total for 1946-47.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
9,350 0 0	8,955 0 0	.....	.....	38,325 6 0
15,840 2 0	13,129 15 0	.....	.....	5,373 7 0
.....	6 8 0	.....	.....	77,098 12 0
1,322 3 0	2,174 3 0	.....	.....	6 8 0
.....	.....	.....	.....	12,314 8 0
.....
3,430 9 0	814 8 0	.....	.....	4,635 14 0
.....	.....	.....	.....	2,358 13 0
37,774 14 0	26,839 1 0	.....	.....	9,14,993 6 0
.....	.....	.....	.....	10,015 5 0
67,617 12 0	61,719 3 0	.....	.....	3,59,597 6 0
74 15 0	48 2 0	.....	.....	526 0 3
357 13 0	130 13 6	.....	.....	2,104 0 6
270 11 0	96 4 0	.....	.....	797 11 6
2,051 5 6	1,701 6 5	.....	.....	10,448 0 3
568 7 0	446 10 0	.....	.....	3,875 0 10
3,323 3 6	2,425 4 0	.....	.....	17,750 13 4
.....	.....	.....	.....	1,043 0 0
1,859 12 0	.....	.....	.....	1,859 12 0
500 0 0	.....	.....	.....	500 0 0
11,900 0 0	.....	.....	.....	11,900 0 0
14,259 12 0	.....	.....	.....	15,307 19 0
1,34,729 5 6	1,22,884 7 0	.....	.....	7,35,789 5 4

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head.	Direction:	Division East Nasik.	Division West Nasik.	Division East Khandesh.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10 FOREST				
—contd.				
D.—SPECIAL DEVELOPMENT PROGRAMME.	.....	.....	.....	7,063 8 0
E.—POST-WAR RECONSTRUCTION AND DEVELOPMENT.				
i. Conservancy and Works	.....	.....	.....	.....
I.— <i>Organization, improvement and extension of Forest—</i>				
a. Demarcation	.....	.....	.....	.....
b. Forest Settlement	.....	.....	.....	.....
c. Survey	.....	.....	.....	.....
d. Working Plans	.....	.....	.....	.....
e. Plantations	.....	.....	.....	.....
f. Reproduction	.....	.....	.....	.....
g. Fire protection	.....	.....	.....	.....
h. Other works	.....	.....	.....	.....
Total I	.....	.....	.....	.....
II.— <i>Communications and Buildings—</i>				
a. Railways and Tramways	.....	.....	.....	.....
b. Roads and bridges	.....	.....	132 0 0	6,464 10 0
c. Buildings	.....	.....	.....	.....
d. Other works	.....	.....	.....	.....
Total II	.....	.....	132 0 0	6,464 10 0
III.— <i>Live-stock Stores, tools and plant—</i>				
a. Purchase of cattle	.....	.....	.....	.....
b. Feed and upkeep of cattle	.....	.....	.....	.....
c. Purchase of stores, tools and plant.	.....	.....	.....	.....
d. Customs duty	.....	.....	.....	.....
Total III	.....	.....	.....	.....
IV.— <i>Miscellaneous—</i>				
a. Rent of leased forest and Payments to share-holders in forests managed by Government.	.....	.....	.....	.....
b. Law charges	.....	.....	.....	.....
c. Grain compensation allowance.	.....	.....	.....	.....
d. Clothing	.....	.....	.....	.....
e. Famine Fodder charges	.....	.....	.....	.....
f. Other charges	.....	.....	.....	.....
Total IV	.....	.....	.....	.....
Total "E" (i) Conservancy and works.	.....	.....	132 0 0	6,464 10 0
ii. Establishment	.....	.....	.....	.....
Total E Post-war Reconstructions and Development.	.....	.....	132 0 0	6,464 10 0
GRAND TOTAL OF ALL EXPENDITURE.	58,103 12 10	1,39,000 7 6	2,60,316 10 8	1,86,860 5 8
SURPLUS OR DEFICIT	55,892 12 10	1,29,413 9 9	+7,06,401 13 6	+2,61,523 14 0

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Belgaum	Poona	Kolaba
	Division	Division	Division	Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
CENTRAL CIRCLE				
REVENUE				
X.—Forest				
I.—Timber and other produce removed from the Forest by Government Agency—				
a. Timber	4,99,995 0 7	10,930 4 0	1,55,150 14 0
b. Firewood and charcoal	8,85,144 13 2	27,911 7 0	18,611 2 0
c. Bamboos
d. Sandalwood	87,017 15 8	543 8 0	.....
e. Grass and other minor produce	430 3 0	.....
Total, I	14,72,157 12 5	39,114 6 0	1,73,761 0 0
II.—Timber and other Produce removed from the Forest by Consumers or Purchasers—				
a. Timber	8,201 4 11	65,101 5 1	10,04,936 9 3
b. Firewood and charcoal	1,49,708 2 0	80,366 8 0	62,839 9 0
c. Bamboos	27,401 11 7	281 12 6	143 13 0
d. Grazing and fodder grass	284 8 0	43,365 11 0	151 0 0
e. Other minor produce	24,933 3 3	12,393 14 0	7,314 11 0
f. Other items
g. Commutation fees
Total, II	2,10,528 13 9	2,01,509 2 7	10,75,385 10 3
III.—Drift and waif wood and confiscated Forest Produce				
Total, III	9 4 0	.....	.....
IV.—Revenue from Forest not managed by Government—				
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests	11 2 10	375 0 3
Total, IV	11 2 10	375 0 3
V.—Miscellaneous—				
a. Fines and forfeitures	1,670 10 3	4,732 0 0	5,778 0 0
b. Refunds	10,390 12 9	11 6 0	51 6 0
c. Other sources	3,191 0 0	70,985 19 7	17,458 10 6	19,416 8 2
d. Recoveries of Establishment Charges	17,025 9 11	.....	.....
e. Contribution towards leave salary etc.	363 14 0	.....	406 4 0	.....
Total, V	3,553 14 0	1,00,022 14 6	22,608 4 6	25,245 14 5
GROSS TOTAL REVENUE	3,553 14 0	17,72,718 2 8	2,63,242 15 11	12,74,768 8 11
Deduct—Refunds	50 0 0	12,759 8 4	556 18 0	55,74 2 0
NET REVENUE	3,503 14 0	17,69,959 4 4	2,62,686 2 11	12,19,194 6 11
EXPENDITURE—10—FOREST				
B.—CONSERVANCY AND WORKS.				
L.—Timber and other produce removed from the Forests by Government Agency—				
a. Timber	6,50,214 10 9	1,293 10 0	65,220 6 0
b. Firewood and charcoal	7,16,630 9 0	9,206 13 0	17,420 10 9
c. Bamboos
d. Sandalwood	10,254 12 0	8 0 0	.....
e. Grass and other minor produce
Total, B—L	13,67,109 15 9	10,508 7 0	1,03,641 0 9

of the different Divisions for the financial year 1946-47—contd.

Satara Division	Working Plans Division, C. C.	Division	Division	Total for the year 1946-47
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
4,043 13 0	6,69,419 15 7
91,395 8 0	10,33,062 13 2
652 0 0	88,253 7 8
.....	430 3 0
96,131 5 0	17,51,155 7 5
1,78,054 13 0	19,56,394 0 3
3,435 15 0	2,95,400 2 0
238 14 0	28,116 3 1
17,415 1 0	61,219 4 0
9,339 13 0	54,031 9 3
.....
2,06,637 8 0	16,96,061 2 7
.....	9 4 0
.....	9 4 0
.....
7 13 3	393 13 4
7 10 3	393 13 4
1,119 0 0	13,999 10 3
38 3 6	2 0 0	.....	.....	10,493 12 3
11,083 3 0	1,22,055 3 6
.....	17,025 9 11
.....	769 2 0
12,240 6 6	2 0 0	.....	.....	1,63,573 5 11
3,17,016 13 9	2 0 0	.....	.....	36,41,303 1 3
6 2 0	63,246 15 4
3,17,019 5 9	2 0 0	.....	.....	35,72,056 1 11
.....
.....
3,400 3 0	6,71,128 12 9
47,165 2 0	7,90,423 2 9
.....	10,272 12 0
.....
50,565 5 0	14,71,834 12 6

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction Division	Balgaum Division	Poona Division	Kelaba Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—contd.				
B—CONSERVANCY AND WORKS				
<i>—contd.</i>				
II.—Timber and other Produce removed from the Forests by consumers or purchasers ...	25 12 0	2,668 12 0	772 7 6	6,290 13 6
Total, B—II ...	25 12 0	2,668 12 0	772 7 6	6,290 13 6
III.—Live-stock, stores, tools and plant—				
a. Purchase of stores, tools and plant ...	44 0 0	1,386 11 6	161 14 9	368 14 0
Total, B—III ...	44 0 0	1,386 11 6	161 14 9	368 14 0
IV.—Communications and Buildings—				
b. Roads and bridges (other than those in connection with Railways and Tramways) ...	.....	25,030 7 0	150 12 0	500 4 0
c. Buildings ...	.....	3,484 2 0	2,503 10 0	1,000 3 0
d. Other works ...	.....	133 4 0	.....	.....
Total, B—IV ...	.....	28,652 13 0	2,654 5 0	1,500 7 0
V.—Organization, improvement and extension of Forests—				
a. Demarcation ...	.....	3,165 0 0	418 15 0	281 0 0
b. Forest Settlement ...	.....	.....	.....	.....
c. Surveys ...	.....	.....	.....	.....
d. Working Plans ...	.....	.....	.....	.....
e. Plantations ...	.....	.....	570 1 9	.....
f. Reproduction ...	.....	8,336 0 3	1,404 9 0	8,385 14 4
g. Fire protection ...	.....	8,292 9 0	175 0 0	50 0 0
h. Other works ...	.....	.....	632 10 9	2,920 6 0
Total, B—V ...	.....	12,763 9 3	3,200 4 6	11,637 3 9
VI.—Miscellaneous—				
a. Rent of leased forests and payments to shareholders in forests managed by Government ...	.....	.....	207 6 6	65,751 1 0
b. Law charges ...	.....	.....	.....	70 0 0
c. Grain Compensation allowance ...	.....	.....	.....	.....
d. Clothing ...	— 2 13 0	3,170 8 0	2,383 14 0	4,798 7 0
e. Famine Fodder charges ...	.....	156 6 0	366 14 0	248 4 5
f. Other charges ...	.....	.....	.....	.....
Total, B—VI ...	— 2 13 0	3,326 14 0	2,960 2 6	70,862 12 9
VII.—Suspense—				
a. Work advances ...	.....	— 0 6 0	.....	.....
Total, B—VII ...	.....	— 0 6 0	.....	.....
VIII.—Demarcation of boundaries (between British territory and Indian States). ...	.....	.....	.....	.....
Total, B—CONSERVANCY AND WORKS ...	66 13 0	38,62,908 5 6	20,257 10 8	1,94,801 3 9
C.—ESTABLISHMENTS				
A.—General Direction.				
I.—Pay of Officers—				
a. Chief Conservator (Charged or Conservators (Voted ...	24,952 15 0	.....	.....	.....
.....	6,765 10 0	.....	.....	.....
b. Superior Officers (Charged plus Personal and special pay (Voted ...	.....	.....	12,486 13 0	.....
.....	2,704 8 0	6,513 15 0	2,969 1 0	5,881 0 0
c. Leave Salary (Charged (Voted ...	.....	.....	239 8 0	77 12 0
.....
Total, C—I ... {Charged ...	24,952 15 0	.....	12,726 5 0	.....
..... {Voted ...	9,471 2 0	6,913 15 0	2,959 1 0	5,958 12 0

of the different Divisions for the financial year 1946-47—contd.

Bahara Division	Working Plans Division, C. C.	Division.	Division.	Total for the year 1946-47
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,096 6 0	.....	.....	.....	10,854 1 0
1,096 6 0	.....	.....	.....	10,854 1 0
199 14 0	157 15 0	.....	.....	9,319 5 3
199 14 0	157 15 0	.....	.....	9,319 5 3
80 0 0 1,741 0 5 555 6 0	..... ..... .....	..... ..... .....	..... ..... .....	25,761 7 0 8,128 15 5 493 4 0
2,176 0 5	.....	.....	.....	34,983 10 5
355 0 0 4,976 10 0 143 9 0 998 10 0 324 15 9 11,941 4 0	..... ..... ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... ..... .....	4,917 15 0 4,976 10 0 713 10 9 19,095 2 0 8,842 8 9 25,495 3 9
28,739 0 9	.....	.....	.....	65,340 2 3 4
6,707 2 3 9,255 6 0 70 2 0 9,085 10 3	..... ..... ..... 82 14 0 62 14 0	..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... .....	73,667 9 9 70 0 0 12,683 4 0 841 10 9 86,262 8 6
.....	.....	.....	.....	-0 6 0
.....	.....	.....	.....	-0 6 0
.....
91,609 4 5	240 13 0	.....	.....	18,69,584 1 11
..... 4,163 11 0 ..... .....	..... ..... ..... 4,773 5 0 ..... .....	..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... .....	21,982 15 0 6,766 10 0 12,486 13 0 27,395 8 0 239 8 0 77 12 0
4,163 11 0	4,773 5 0	.....	.....	37,753 9 0 34,239 14 0

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction Division	Belgaum Division	Poona Division	Kolaba Division
EXPENDITURE—contd.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
C.—ESTABLISHMENTS—contd.				
II.—Pay of Establishment—				
a. Subordinate Forest and Depot Establishment plus special and personal pay	35 13 0	65,722 11 0	54,242 15 0	67,459 4 0
b. Office Establishment plus special and personal pay	7,572 3 0	14,018 12 0	11,768 2 0	11,246 7 0
d. Temporary Establishment plus special pay	1,287 0 0	8,776 8 0	1,518 0 0	1,931 4 0
e. Leave Salary	1,037 7 0	3,832 6 0	2,970 2 0	5,607 11 0
Total, C—II	9,932 7 0	92,350 5 0	70,499 3 0	86,244 10 0
III.—Allowances, Honoraria, etc.—				
a. Compensatory Allowances. { Charged ...	1,470 0 0	13,914 3 0	11,699 3 0	13,843 1 0
{ Voted ...				
b. Travelling allowance. { Charged ...	3,639 1 0		1,849 2 0	
{ Voted ...	1,476 0 0	18,686 5 0	14,514 15 0	25,112 8 0
(c) Plague allowance Voted				
d. House-rent allowance. { Charged ...				
{ Voted ...		1,243 7 0	6,290 5 0	3,783 0 0
(f) Dearness allowance	5,355 12 0	63,107 13 0	50,624 4 0	65,969 1 0
(g) Cost of living allowance. { Charged ...	4,951 7 0		2,102 4 0	
{ Voted ...	2,156 11 0	1,272 3 0	927 1 0	1,085 5 0
Total, C—III { Charged ...	8,540 8 0	.....	3,951 6 0	.....
{ Voted ...	10,458 7 0	98,223 15 0	84,036 12 0	1,08,792 16 0
IV.—Contingencies—				
a. Stationery	4 8 0	89 6 0	33 5 0	37 5 0
b. Carriage of tents and records	329 8 0	360 5 6	156 13 0	459 4 0
c. Rents, rates and taxes	78 13 0	102 8 0	128 6 0	143 6 0
d. Service postage and telegram charges	1,200 0 6	2,081 2 3	1,598 11 6	3,499 2 6
e. Sundries	718 2 6	598 4 11	339 9 9	300 12 4
Total, C—IV	2,331 0 0	3,251 10 6	2,286 13 3	4,449 19 10
V.—Establishment charges recoverable from other Governments, Departments, etc.—				
(a) Deduct—Amount recoverable from Raisingpur Estate on account of pay of Ranger, etc.				
Establishment charges payable to Central Government Revenue Department				
Establishment charges recoverable from Excise Department.				
Total, C—V	.....	.....	.....	.....
TOTAL C—ESTABLISHMENT	65,716 7 0	1,00,739 13 6	1,76,478 8 3	2,06,446 2 10

of the different Divisions for the financial year 1946-47—contd.

Sabara Division	Working Plans Division, C. C.	Division	Division	Total for the year 1946-47
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
34,650 9 0	48 15 0	.....	.....	3,23,160 3 0
8,373 11 0	1,471 4 0	.....	.....	64,460 7 0
3,721 3 0	978 0 0	.....	.....	23,111 15 0
3,559 10 0	901 10 0	.....	.....	18,008 14 0
55,405 1 0	3,299 13 0	.....	.....	3,17,731 7 0
10,262 3 0	316 0 0	.....	.....	51,503 10 0
14,694 7 0	3,357 7 0	.....	.....	5,438 3 0
.....	.....	.....	.....	77,841 10 0
2,137 4 0	.....	.....	.....	.....
39,981 12 0	9,163 6 0	.....	.....	13,464 0 0
.....	.....	.....	.....	2,27,902 0 0
756 8 0	360 0 0	.....	.....	7,053 11 0
.....	.....	.....	.....	6,557 12 0
67,632 2 0	6,195 13 0	.....	.....	12,491 14 0
.....	.....	.....	.....	3,76,550 0 0
16 5 0	90 14 0	.....	.....	901 11 0
68 4 0	48 2 0	.....	.....	1,432 4 5
43 12 0	92 6 0	.....	.....	589 3 0
1,500 7 3	400 0 0	.....	.....	10,279 8 0
396 5 9	173 13 0	.....	.....	2,526 0 8
9,024 2 0	784 3 0	.....	.....	15,077 10 9
.....
.....
.....
.....
.....
1,23,425 0 0	15,003 2 0	.....	.....	7,93,809 1 9

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction Division	Belgaum Division	Poona Division	Kolaba Division
EXPENDITURE—contd.				
M—POST WAR RECONSTRUCTION AND DEVELOPMENT PROGRAMME.				
E (i) I—	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
<i>d</i> ... ..	.....	.....	.....	.....
<i>e</i> ... ..	.....	1,099 6 0	.....	.....
<i>f</i> ... ..	.....	.....	.....	.....
<i>h</i>	1,973 11 6	.....	.....	.....
Total E (i) I ...	1,973 11 6	1,099 6 0	.....	.....
E (i) III-c	193 1 0	321 0 0	.....	.....
E (i) IV-d ... ..	.....	.....	.....	.....
Total E (i) ...	2,166 12 6	1,420 6 0	.....	.....
Establishment.				
E (ii)—				
<i>1 a</i> (Voted)	2,732 4 0	.....	.....	.....
<i>b</i> (Voted) ... ..	.....	.....	.....	.....
<i>c</i> (Voted) ... ..	.....	.....	.....	.....
Total E (ii) I ...	2,732 4 0	.....	.....	.....
E (ii) II—				
<i>a</i>	425 9 0	.....	.....	.....
<i>b</i> ... ..	.....	.....	.....	.....
<i>d</i>	319 7 0	312 2 0	.....	.....
<i>e</i> ... ..	.....	.....	.....	.....
Total E (ii) II ...	745 0 0	312 2 0	.....	.....
E (ii) III—				
<i>a</i> ... ..	.....	.....	.....	.....
<i>b</i>	1,934 10 0	157 15 0	.....	.....
<i>d</i> ... ..	.....	.....	.....	.....
<i>f</i>	557 10 0	82 0 0	.....	.....
<i>j</i> (ii)	479 6 0	.....	.....	.....
Total E (ii) III ...	3,001 10 0	219 15 0	.....	.....
E (ii) IV—				
<i>a</i> ... ..	.....	.....	.....	.....
<i>c</i> ... ..	.....	30 0 0	.....	.....
<i>e</i> ... ..	.....	.....	.....	.....
Total E (ii) IV ...	.....	30 0 0	.....	.....
Total E (ii) ...	6,478 14 0	562 1 0	.....	.....
Total E (i) & (ii) ...	8,645 10 6	1,982 7 0	.....	.....
B—CONSERVANCY AND WORKS ...	66 13 0	13,62,905 5 6	20,257 10 3	1,94,301 3 3
C—ESTABLISHMENT	65,716 7 0	2,00,739 13 8	1,76,478 8 3	2,06,446 2 10
E—POST WAR R. SCHEMES ...	8,645 10 6	1,982 7 0	.....	.....
GRAND TOTAL OF ALL EXPENDITURE ...	74,428 14 6	15,05,630 10 2	1,96,736 2 6	4,00,747 6 7
TOTAL REVENUE—NET ...	3,503 14 0	17,09,259 4 4	2,62,386 2 11	12,16,194 6 12
SURPLUS OR DEFICIT ...	-70,925 0 6	+2,04,328 10 2	+55,650 0 5	+5,18,347 0 4

of the different Divisions for the financial year 1946-47—contd.

Satara Division	Working Plans Division, C. C.	Division	Division	Total for the year 1946-47
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	557 8 3	.....	.....	557 8 3
.....	.....	.....	.....	1,099 6 0
778 13 3	956 1 6	.....	.....	1,734 14 9
10,732 2 0	.....	.....	.....	12,705 13 6
11,510 15 3	1,513 9 9	.....	.....	16,027 10 6
883 9 0	.....	.....	.....	897 10 0
2 9 0	.....	.....	.....	2 9 0
11,897 1 3	1,513 9 9	.....	.....	16,997 13 6
.....	.....	.....	.....	2,732 4 0
1,750 3 0	765 5 0	.....	.....	2,515 8 0
194 13 0	.....	.....	.....	194 13 0
1,945 0 0	765 5 0	.....	.....	5,442 9 0
3,711 10 0	4,111 5 0	.....	.....	8,248 8 0
964 7 0	.....	.....	.....	984 7 0
.....	6,946 5 0	.....	.....	7,577 14 0
130 9 0	.....	.....	.....	130 9 0
4,806 11 0	11,057 10 0	.....	.....	15,921 6 0
684 12 0	970 0 0	.....	.....	1,604 12 0
2,383 9 0	5,936 5 0	.....	.....	10,412 10 0
144 3 0	16 12 0	.....	.....	160 15 0
3,714 10 0	5,103 9 0	.....	.....	9,467 13 0
419 9 0	136 11 0	.....	.....	1,035 10 0
7,295 11 0	12,183 5 0	.....	.....	22,701 12 0
3 15 0	.....	.....	.....	3 15 0
.....	.....	.....	.....	30 0 0
7 6 6	.....	.....	.....	7 6 6
11 5 6	.....	.....	.....	41 5 6
14,059 10 5	24,006 7 0	.....	.....	45,107 0 5
25,956 11 9	26,520 0 9	.....	.....	62,104 14 0
91,809 4 5	240 13 0	.....	.....	15,69,684 1 11
1,29,425 0 0	15,003 2 0	.....	.....	7,93,809 1 9
25,956 11 9	25,520 0 9	.....	.....	62,104 14 0
2,47,131 0 2	40,763 15 9	.....	.....	25,25,498 1 8
3,17,010 5 9	2 0 0	.....	.....	35,72,056 1 11
+69,819 5 7	-40,761 15 9	.....	.....	- 10,46,558 0 3

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Kanara, Northern Division	Kanara, Eastern Division
SOUTHERN CIRCLE			
REVENUE—X. FOREST			
<i>I.—Timber and other produce removed from the forest by Government Agency—</i>			
a. Timber	.....	32,16,218 10 2	17,56,157 6 3
b. Firewood and Charcoal	.....	1,46,127 1 8	947 7
c. Bamboos	.....	.....	.....
d. Sandalwood	.....	5,911 13 0	80,266 0
e. Grass and other minor produce	.....	.....	.....
Total, I	.....	33,68,257 7 10	17,87,370 14
<i>II.—Timber and other produce removed from the forest by consumers or purchasers—</i>			
a. Timber	.....	37,028 0	1,94,077 10
b. Firewood and charcoal	.....	406 14	1,590 2
c. Bamboos	.....	59,098 8 0	16,531 16
d. Grazing and fodder grass	.....	.....	13 0
e. Other minor produce	.....	513 14 0	39,565 12 1
f. Other items	.....	.....	.....
g. Commutation fees	.....	.....	.....
Total, II	.....	97,047 4 6	2,51,777 9
<i>III.—Drift and waif wood and confiscated forest produce</i>			
Total, III	.....	.....	.....
<i>IV.—Revenue from forest not managed by Government—</i>			
a. Duty on foreign timber and other forest produce	.....	.....	.....
b. Revenue from shared and private forest	.....	.....	.....
Total, IV	.....	.....	.....
<i>V.—Miscellaneous—</i>			
a. Fines and forfeitures	.....	3,289 8 0	1,762 4
b. Refunds	72 14 0	38 7 0	810 2
c. Other sources	2,200 8 0	1,45,086 7 9	79,231 1
d. Recoveries of Establishment charges	.....	.....	.....
e. Leave Contributions	.....	1,975 2 0	.....
Total, V	2,272 4 0	1,52,098 8 9	81,803 8
<i>VI.—Transfer from Deposit account</i>			
Total, VI	.....	3,999 8 8	6,106 12
Gross Total, Revenue	.....	36,21,402 13 9	21,27,057 11 1
Deduct Refunds	.....	5,278 9 1	894 11
Net Revenue	2,272 4 4	36,15,624 8 11	21,26,163 0 1
EXPENDITURE—10. FOREST			
B—CONSERVANCY AND WORKS.			
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>			
a. Timber	241 14 0	16,00,260 10 11	9,69,030 7 11
b. Firewood and charcoal	60 0 0	1,48,449 9 6	5,931 9 0
c. Bamboos	.....	502 2 0	.....
d. Sandalwood	.....	266 6 6	6,383 0 5
e. Grass and other minor produce	.....	.....	.....
Total, B-I	801 14 0	17,50,698 15 11	9,74,395 1 8

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Kanara, Northern Division	Kanara, Eastern Division
		Rs. a. p.	Rs. a. p.
EXPENDITURE—contd.			
B.—CONSERVANCY AND WORKS—contd.			
<i>II.—Timber and other produce removed from the forests by consumers or purchasers</i>			
.....	.....	752 0 0	1,284 4 0
Total, B-II	.....	752 0 0	1,284 4 0
<i>III.—Live Stock, Stores, Tools and Plant—</i>			
a. Purchase of cattle	.....	495 0 0	.....
b. Feed and upkeep of cattle	.....	990 11 1	427 3 0
c. Purchase of stores, tools and plant	122 8 0	.....	.....
d. Customs Duty	.....	.....	.....
Total, B-III	122 8 0	1,785 11 1	427 3 0
<i>IV.—Communications and Buildings—</i>			
a. Railways and Tramways	.....	1,44,398 0 0	.....
b. Roads and bridges (other than those in connection with Railways and Tramways)	.....	56,157 15 0	26,280 13 3
c. Buildings	.....	19,086 3 11	4,173 3 1
d. Other works	.....	6,886 10 4	446 12 10
Total, B-IV	.....	2,26,518 13 3	30,899 13 2
<i>V.—Organization, Improvement and Extension of Forests—</i>			
a. Demarcation	.....	.....	694 0 0
b. Forest Settlement	.....	569 4 0	.....
c. Surveys	.....	.....	.....
d. Working Plans	.....	.....	.....
e. Plantations	.....	40,675 1 7	9,389 9 0
f. Reproduction	.....	28,020 3 0	23,442 6 0
g. Fire protection	.....	5,088 4 0	177 6 0
h. Other works	.....	.....	.....
Total B-V	.....	74,352 12 7	33,536 5 0
<i>VI.—Miscellaneous—</i>			
a. Rent of leased forests and payments to shareholders in forests managed by Government	.....	.....	.....
b. Law charges	.....	629 0 0	.....
c. Grain compensation allowance	.....	.....	.....
d. Clothing	.....	2,268 5 8	2,597 3 0
e. Famine fodder charges	.....	362 14 0	361 3 3
f. Other charges	89 0 0	.....	.....
Total, B-VI	89 0 0	3,260 9 8	2,919 6 3
<i>VII.—Suspense—</i>			
a. Work advances	.....	.....	.....
Total, B-VII	.....	.....	.....
<i>VIII. Demarcation of boundaries (between British territory and Indian States)</i>			
.....	.....	90 0 0	261 6 0
Total, B-Conservancy and Works	513 6 0	20,57,458 5 6	10,43,719 7 1
C.—ESTABLISHMENTS			
<i>A—General Direction.</i>			
<i>I.—Pay of Officers—</i>			
a. Chief Conservator or Conservators	22,948 6 0	.....	.....
b. Superior Officers plus personal and special pay	.....	16,200 0 0	.....
.....
.....	5,373 9 0	6,493 4 0	7,994 2 0
c. Leave Salary	.....	.....	.....
.....
Total, I	.....	.....	.....
.....	22,948 6 0	16,200 0 0	.....
.....	5,373 9 0	6,493 4 0	7,994 2 0

of the different Divisions for the financial year 1946-47---contd.

Kanara, Western Division	Dharwar- Bijapur Division	Working Plans Division, S. C.	Total for the year 1946-47	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a.
32,636 16 3	1,070 9 4	.....	.....	33,743 12 7
32,636 15 3	1,070 9 4	.....	.....	33,743 12 7
.....	.....	.....	.....	795 0 0
349 15 0	978 15 0	21,351 9 4	.....	24,214 13 5
349 15 0	978 15 0	21,351 9 4	.....	25,009 13 5
.....	.....	.....	.....	1,44,388 0 0
19,910 15 7	17,874 4 9	.....	.....	1,20,224 0 7
4,256 5 0	2,208 6 0	.....	.....	29,723 2 0
265 5 0	112 12 0	.....	.....	7,711 8 2
24,432 9 7	20,195 6 9	.....	.....	3,02,046 10 9
800 0 0	425 0 0	.....	.....	1,849 0 0
.....	.....	.....	.....	560 4 0
.....	.....	1,34,232 0 2	.....	124,292 0 2
67 8 0	1,499 13 0	.....	.....	1,557 4 0
38,765 15 10	3,114 6 0	.....	.....	91,838 0 5
16,441 8 0	6,402 15 0	.....	.....	74,307 0 0
20 0 0	255 0 0	173 10 0	.....	5,564 4 0
56,064 15 10	11,697 1 0	1,24,415 10 2	.....	3,00,076 12 7
.....	.....	.....	.....	629 0 0
2,322 7 0	3,610 5 0	-10 9 0	.....	10,757 11 8
1,187 3 11	19,184 3 9	.....	.....	21,174 8 11
3,509 10 11	22,794 8 9	-10 9 0	.....	32,561 4 7
.....
.....
280 0 0	232 0 0	.....	.....	852 6 0
4,40,449 14 11	6,40,639 0 4	1,46,101 15 8	.....	43,28,874 1 4
.....	.....	.....	.....	22,948 6 0
.....	.....	.....	.....	16,200 0 0
9,025 1 0	6,317 6 0	17,935 9 0	.....	53,178 14 0
577 6 0	.....	1,974 5 0	.....	2,521 12 0
.....	.....	.....	.....	39,148 6 0
9,612 7 0	6,347 6 0	19,909 14 0	.....	55,730 10 0

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	Direction	Kanara Northern Division	Kanara Eastern Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.
. EXPENDITURE—contd.			
C.—ESTABLISHMENTS—contd.			
II.—Pay of Establishment—			
a. Subordinate Forest and Depot Establishment plus special and personal pay	.....	64,645 15 0	48,163 8 0
b. Office Establishment plus personal and special pay	11,410 1 0	16,751 8 0	13,317 3 0
c. Proficiency allowance	.....	.....	.....
d. Temporary Establishment plus special pay	2,840 14 0	10,587 3 0	8,060 10 0
e. Leave Salary	268 14 0	4,196 13 0	3,787 2 0
Total, II	14,019 13 0	96, 51 4 0	72,348 7 0
III.—Allowances, Honoraria, etc.—			
a. Compensatory allow- ances { Charged ... { Voted ...	..... 2,275 0 0	..... 11,842 0 0	..... 8,213 1 0
b. Travelling allow- ance { Charged ... { Voted ...	3,835 3 0 3,886 11 0	4,541 0 0 19,590 1 0	..... 15,324 4 0
c. Plague allowance Voted	.....	.....	.....
d. House rent allowance { Charged ... { Voted ...	..... .....	821 6 0	265 8 0
e. Forest Training	591 0 0	1,515 9 0	.....
f. Dearness allowance	5,993 3 0	52,951 7 0	41,450 4 0
g. Cost of living allow- ance { Charged ... { Voted ...	..... 1,269 11 0	..... 2,448 0 0 2,478 9 0	..... 1,595 4 0
(k). Cost of Condensed milk Supplied to Forest Subordinates	.....	160 15 0	.....
Total, III ... { Charged ... { Voted ...	3,535 3 0 13,520 9 0	8,789 0 0 69,209 14 0	..... 67,648 5 0
IV.—Contingencies—			
a. Stationery	34 0 0	113 14 0	179 12 6
b. Carriage of tents and records	472 2 0	132 6 0	463 2 0
c. Rents, rates and taxes	2,333 13 0	.....	.....
d. Service postage and telegram charges	2,699 10 0	3,851 13 0	2,739 9 0
e. Sundries	1,088 4 6	852 9 0	1,167 2 6
Total, IV	6,927 13 6	4,950 10 0	4,607 10 0
V.—ESTABLISHMENT CHARGES RECOVERABLE FROM OTHER GOVERNMENTS DEPARTMENTS, ETC.—			
Deduct—			
a. Establishment charges payable to Central Government	.....	.....	.....
Deduct—Establishment charges recoverable from contractors, etc. on account of pay of guards, etc.	.....	.....	.....
Total, V	.....	.....	.....
TOTAL, C—ESTABLISHMENTS	66,625 5 6	2,21,624 0 0	1,52,798 8 0
D.—SPECIAL DEVELOPMENT FUND	.....	3,959 8 8	6,106 12 0
F.—LOSS OR GAIN BY EXCHANGE	.....	.....	.....
GRAND TOTAL OF EXPENDITURE	67,138 11 6	22,83,281 14 2	19,02,616 11 1
SURPLUS OR DEFICIT	-64,865 7 5	+13,32,242 5 9	+9,33,516 6 9

of the different Divisions for the financial year 1946-47—contd.

Kanara Western Division	Dharwar- Bijapur Division	Working Plans Division, S. C.		Total for the year 1946-47
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
60,112 3 0	49,780 4 0	6,200 4 0	.....	2,28,902 2 0
10,250 12 0	10,294 11 0	2,048 2 0	.....	64,082 2 0
.....
11,300 13 0	8,608 5 0	15,758 11 0	.....	56,676 8 0
5,455 9 0	6,013 3 0	1,313 10 0	.....	19,035 3 0
57,129 5 0	73,686 7 0	25,320 11 0	.....	3,68,695 15 0
.....
12,243 15 0	13,040 9 0	2,835 0 0	.....	50,449 9 0
.....	.....	.....	.....	8,376 3 0
21,943 11 0	17,575 5 0	23,415 9 0	.....	1,02,675 9 0
.....
719 9 0	2,589 4 0	170 0 0	.....	4,065 10 0
.....	.....	5,517 2 0	.....	7,723 11 0
63,305 0 0	53,442 9 0	12,477 0 0	.....	2,26,684 7 0
.....	.....	.....	.....	4,248 0 0
1,773 5 0	1,127 12 0	4,160 6 0	.....	12,404 15 0
.....	.....	1,179 0 0	.....	1,339 15 0
.....	.....	.....	.....	12,624 3 0
95,364 8 0	87,375 7 0	43,755 1 0	.....	4,05,293 12 0
.....
60 7 0	156 13 0	288 5 8	.....	833 4 2
227 12 0	350 2 0	665 14 0	.....	2,316 6 0
60 0 0	601 4 0	3,251 10 0	.....	5,246 11 0
.....
4,130 15 6	3,153 8 3	830 1 0	.....	17,755 8 9
263 14 0	1,533 11 0	1,673 7 9	.....	6,684 0 9
4,748 0 6	6,092 6 3	5,709 6 5	.....	33,035 14 8
.....
.....
.....
1,93,474 4 6	1,74,111 10 3	1,00,695 0 5	.....	9,14,528 12 8
10,513 14 2	.....	.....	.....	20,619 2 10
.....
6,49,437 1 7	8,14,750 10 7	2,45,796 15 11	.....	62,64,022, 0 10
+4,24,310 2 7	+10,06,698 6 0	--2,42,000 14 11	.....	+33,78,840 13 8

FORM NO. 68.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1946-47—contd.*

Budget Head	Utilization Circle
	Rs. a. p.
REVENUE—10. FOREST.	
<i>I.—Timber and other produce removed from the forest by Government Agency—</i>	
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Sandalwood
e. Grass and other minor produce
Total, I
<i>II.—Timber and other produce removed from the forest by consignees or purchasers—</i>	
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Grazing and fodder grass
e. Other minor produce
f. Other items
g. Commutation fees
Total, II
<i>III.—Drift and waif wood and confiscated forest produce</i>
Total, III
<i>IV.—Revenue from forest not managed by Government—</i>	
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total, IV
<i>V.—Miscellaneous—</i>	
a. Fines and forfeitures
b. Refunds
c. Other sources	36 9 0
d. Recoveries of establishment charges
Total, V	36 9 0
GROSS TOTAL, REVENUE	36 9 0
Deduct—Refunds
NET REVENUE	36 9 0

FORM No. 68.—Summary of Revenue and Expenditure of the
different Divisions for the financial year 1946-47—contd.

Budget Head	Utilization Circle
	Rs. s. p.
EXPENDITURE—10, FOREST.	
B.—CONSERVANCY AND WORKS.	
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>	
a. Timber
b. Fire wood and charcoal	85 6 0
c. Bamboos
d. Sandalwood
e. Grass and other minor produce
Total, B-I	85 6 0
<i>II.—Timber and other produce removed from the forests by consumers or purchasers—</i>	
<i>Deduct—Establishment charges recoverable from contractors, etc., on account of pay of Depot-officers, etc.</i>	
Total, B-II
<i>III.—Live-stock, store, tools and plant—</i>	
a. Purchase of cattle
b. Feed and upkeep of cattle
c. Purchase of stores, tools and plant	88 12 0
d. Customs duty
Total, B-III	89 12 0
<i>IV.—Communications and Buildings—</i>	
a. Railways and Tramways
b. Roads and bridges (other than those in connection with Railways and Tramways)
c. Buildings
d. Other works
Total, B-IV
<i>V.—Organization, improvement and extension of forests—</i>	
a. Demarcation
b. Forest Settlement
c. Surveys
d. Working Plans
e. Plantations
f. Reproduction
g. Fire protection
h. Other works
Total, B-V

FORM NO. 68.—Summary of Revenue and Expenditure of the different Divisions for the financial year 1946-47—contd.

Budget Head	Utilization Circle
Rs. a. p.	
EXPENDITURE—10, FOREST—contd.	
B.—CONSERVANCY AND WORKS—contd.	
VI.—Miscellaneous—	
a. Rent of leased forests and payments to shareholders in forests managed by Government ... ..	.....
b. Law charges ... ..	.....
c. Grain compensation allowances ... ..	.....
d. Clothing ... ..	.....
e. Famine Fodder charges ... ..	.....
f. Other charges	122 13 0
Total, B-VI ...	122 12 0
VII.—Suspense—	
a. Work advances ... ..	.....
Total, B-VII ...	.....
VIII.—Demarcation of boundaries (between British territory and Indian States) a	
TOTAL, B—CONSERVANCY AND WORKS ...	296 14 0
C—ESTABLISHMENTS.	
A—General Direction.	
I.—Pay of Officers—	
a. Conservators Charged ...	29,285 10 0
b. Superior Officers plus personal and special pay.	{ Charged ... 9,393 5 0
	{ Voted
c. Leave Salary	{ Charged
	{ Voted ... 1,058 9 0
Total, I ...	{ Charged ... 29,285 10 0
	{ Voted ... 10,451 14 0
II.—Pay of Establishment—	
a. Subordinate Forest and Depot Establishment plus special and personal pay	1,795 3 0
b. Office Establishment plus special and personal pay ...	2,340 8 0
c. Proficiency allowance ... ..	.....
d. Temporary Establishment plus special pay	8,814 10 0
e. Leave salary	675 13 0
Total, II ...	13,525 2 0

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1946-47—contd.*

Budget Head	Utilization Circle
Rs. a. p.	
EXPENDITURE—10. FOREST—contd.	
C—ESTABLISHMENTS—contd.	
III.— <i>Allowances, Honoraria, etc.—</i>	
a. Compensatory Allowance	{ Charged
	{ Voted
	1,688 0 0
b. Travelling Allowance	{ Charged
	{ Voted
	3,745 8 0
c. Plague allowance	Voted

d. House-rent allowance	{ Charged
	{ Voted
	68 10 0
e. Cost of living allowance	{ Charged
	{ Voted
	3,715 2 0
f. Forest training ... ..	.....
g. Grain compensation ... ..	.....
h. Dearness allowance	8,204 4 0
Total, III ...	{ Charged
	{ Voted
	3,460 10 0
	14,756 5 0
IV.— <i>Contingencies—</i>	
a. Stationery	19 11 0
b. Carriage of tents and records	180 3 0
c. Rents, rates and taxes	1,927 15 0
d. Service postage and telegram charges	1,250 6 0
e. Sundries	591 10 0
Total, IV ...	3,709 13 0
TOTAL, C—ESTABLISHMENT ...	75,139 6 0
TOTAL, "B" CONSERVANCY AND "C" ESTABLISHMENT ...	75,486 4 0

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1946-47—contd.*

Budget Head	Utilization Circle
EXPENDITURE—10, FOREST—concl.	
E. POST-WAR RECONSTRUCTION AND DEVELOPMENT.	
<i>II—Establishment,</i>	
<i>I.—Pay of Officers—</i>	
a. Conservators { Charged ...	4,250 0 0
... .. { Voted ...	2,130 0 0
b. Superior officers plus personal and special pay...Voted ...	.....
c. Leave salary ... ..	.....
Total I ... { Charged ...	4,250 0 0
... .. { Voted ...	2,130 0 0
<i>II.—Pay of Establishment—</i>	
a. Subordinate Forest and Depot Establishment plus special and personal pay.	.....
b. Office Establishment plus special and personal pay ...	1,785 10 0
c. Proficiency allowance ... ..	.....
d. Temporary Establishment plus special pay ... ..	.....
e. Leave salary ... ..	.....
Total, II ...	1,785 10 0
<i>III.—Allowances, Honoraria, etc.—</i>	
a. Compensatory allowance	190 0 0
b. Travelling allowance { Charged ...	828 5 0
... .. { Voted ...	14 0 0
d. House rent allowance ... ..	.....
e. Forest Training ... ..	.....
f. Grain compensation ... ..	.....
g. Dearness allowance	796 14 0
h. Cost of living allowance Voted ...	407 0 0
Total, III ... { Charged ...	828 5 0
... .. { Voted ...	1,337 14 0
<i>IV.—Contingencies—</i>	
a. Stationery	41 15 0
b. Carriage of tents and records ... ..	.....
c. Rents, rates and taxes ... ..	.....
d. Service postage and telegram charges	100 0 0
e. Sundries ... ..	.....
Total, IV ...	141 15 0
TOTAL II—ESTABLISHMENT ... { Charged ...	5,078 5 0
... .. { Voted ...	5,995 7 0
TOTAL E. POST-WAR RECONSTRUCTION AND DEVELOPMENT...	10,473 12 0
GRAND TOTAL OF ALL EXPENDITURE ...	85,960 0 0
SURPLUS OR DEFICIT ...	-85,923 7 0

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1916-17—contd.*

Budget Head.	Forest Engineering Circle.
FOREST ENGINEERING CIRCLE	
REVENUE—X, FOREST	
Rs. p.	
I.—Timber and other produce removed from the Forest by Government agency—	
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Sandalwood
e. Grass and other minor produce
Total I
II.—Timber and other produce removed from the Forest by consumers or purchasers—	
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Grazing and fodder grass
e. Other minor produce
f. Other items
g. Commutation fees
Total II
III.—Drift and waif wood and confiscated Forest produce	
Total III
IV.—Revenue from Forest not managed by Government—	
a. Duty on foreign timber and other Forest produce
b. Revenue from shared and private Forest
Total IV
V.—Miscellaneous—	
a. Fines and forfeitures
b. Refunds	37,391 0 0
c. Other sources	1,424 0 9
d. Recoveries of establishment charges
Total V	38,815 0 9
GROSS TOTAL REVENUE	38,815 0 9
Deduct—Refunds
NET REVENUE	38,815 0 9

FORM No. 68.—Summary of Revenue and Expenditure of the different Divisions for the financial year 1946-47—contd.

Budget Head.	Forest Engineering Circle,
EXPENDITURE—10, FOREST	
B.—CONSERVANCY AND WORKS	
I.—Timber and other produce removed from the Forest by Government Agency—	
a. Timber	98,045 12 0
b. Firewood and charcoal ... ..	.....
c. Bamboos ... ..	.....
d. Sandalwood ... ..	.....
e. Grass and other minor produce ... ..	.....
Total B-I	98,045 12
II.—Timber and other produce removed from the Forests by consumers or purchasers—	
Establishment charges recoverable from other Governments, Departments, etc.	.....
Deduct—Establishment charges recoverable from contractors etc. on account of pay of Depot officers, etc.	.....
Total B-II ... ..	.....
III.—Live-stock, stores, tools and plant—	
a. Purchase of cattle ... ..	.....
b. Feed and upkeep of cattle ... ..	.....
c. Purchase of stores, tools and plant	6,112 15 0
d. Customs duty ... ..	.....
Total B-III	6,112 15 0
IV.—Communications and Buildings—	
a. Railways and Tramways ... ..	.....
b. Roads and bridges other than those in connection with Railways and Tramways.	23 5
c. Buildings	12,930 15 0
d. Other works	26 4 0
Total B-IV	12,930 6 0
V.—Organization, improvement and extension of Forests—	
a. Demarcation ... ..	.....
b. Forest Settlement ... ..	.....
c. Surveys ... ..	.....
d. Working Plans ... ..	.....
e. Plantations ... ..	.....
f. Reproduction ... ..	.....
g. Fire protection ... ..	.....
h. Other works ... ..	.....
Total B-V ... ..	.....

FORM No. 68.—Summary of Revenue and Expenditure of the
different Divisions for the financial year 1946-47—contd.

Budget Head.	Forest Engineering Circle.
Rs. a.	
EXPENDITURE—10, FOREST—contd.	
B.—CONSERVANCY AND WORKS—contd.	
VI.—Miscellaneous—	
a. Rent of leased forests and payments to shareholders in forests managed by Government	.....
b. Law charges	.....
c. Grain Compensation allowance	.....
d. Clothing	.....
e. Famine Fodder charges	.....
f. Other charges	.....
	1,932 4 0
Total B-VI	1,959 11 0
VII.—Suspense—	
a. Work advances	.....
Total B-VII	.....
VIII.—Demarcation of boundaries (between British territory and India States—	
TOTAL B.—CONSERVANCY AND WORKS	1,18,848 12
C. ESTABLISHMENTS	
A. GENERAL DIRECTION	
I.—Pay of Officers—	
a. Chief Conservator or Conservators	.....
b. Superior Officers plus Personal and special pay—(Charged)	5,130 0 0
{ Superior Officers plus Personal and special pay—(Voted)	12,520 0 0
{ Personal Assistant to the Chief Conservator plus special pay—(Voted)	.....
c. Leave salary	.....
	{ Charged
	{ Voted
Total I	{ Charged
	{ Voted
	5,130 0 0
	12,520 0 0
II.—Pay of Establishment—	
a. Subordinate Forest and depot Establishment plus special and personal pay.	.....
b. Office Establishment plus special and personal pay	.....
a. Office Establishment	.....
c. Proficiency allowance	.....
b. Temporary Establishment plus special pay	.....
	23,754 7 0
c. Leave salary	.....
	925 12
Total II	24,680 3

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1946-47—contd.*

Budget Head.	Forest Engineering Circle.
EXPENDITURE—10, FOREST—contd.	
C—ESTABLISHMENT.	
III.—Allowances, Honoraria etc.—	
a. Compensatory allowances	Rs. a. p.

b. Travelling allowance	1,358 3 0
	11,110 11 0
c. Plague allowance—Voted
d. — House-rent allowance
e. —
f. Forest training
g. —
h. —
i. Cost of living allowance to G. O....	2,312 12
	2,315 0
j. —
k. —
l. —
m. —
n. —
o. —
p. —
q. —
r. —
s. —
t. —
u. —
v. —
w. —
x. —
y. —
z. —
aa. —
ab. —
ac. —
ad. —
ae. —
af. —
ag. —
ah. —
ai. —
aj. —
ak. —
al. —
am. —
an. —
ao. —
ap. —
aq. —
ar. —
as. —
at. —
au. —
av. —
aw. —
ax. —
ay. —
az. —
ba. —
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FORM No. 68.--*Summary of Revenue and Expenditure of the
different Divisions for the financial year 1946-47--contd.*

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head	General Direction Division
REVENUE—X. FOREST.	
<i>L—Timber and other produce removed from the Forest by Government Agency—</i>	
(a) Timber
(b) Firewood and Charcoal
(c) Bamboos
(d) Sandalwood
(e) Grass and other minor produce
Total, I
<i>II.—Timber and other produce removed from the Forest by consumers or purchasers—</i>	
(a) Timber
(b) Firewood and charcoal
(c) Bamboos
(d) Grazing and fodder grass
(e) Other minor produce
(f) Other items
(g) Commutation fees
Total, II
<i>III.—Drift and waif wood and associated Forest produce</i>	
Total, III
<i>IV.—Revenue from Forest not managed by Government—</i>	
(a) Duty on foreign timber and other Forest produce
(b) Revenue from shared and private Forests
Total, IV
<i>F—Miscellaneous—</i>	
(a) Fines and forfeitures
(b) Refunds
(c) Other sources
(d) Recoveries of establishment charges
(e) Contribution towards leave salary and passage of officers lent to foreign Service.	12,922 8 0
Total, V	12,922 8 0
<i>VI.—Transfer from the deposit account of the special Development programme.</i>	
Gross total Revenue	12,922 8 0
Deduct Refunds
Net Revenue	12,922 8 0

of the different Divisions for the financial year 1946-47—contd.

Silvicultural Division	Total of Circles	Additional Director of Civil Supplies	Total for 1946-47 Bombay Province
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	73,52,566 3 3	.....	73,52,566 3 3
.....	23,82,200 5 1	.....	2,82,200 5 1
.....	71 0 0	.....	71 0 0
5 0 0	3,47,531 5 11	.....	3,47,540 5 11
61 12 0	5,284 0 0	5,93,046 0 0	9,45,248 5 9
66 12 0	1,01,85,822 8 3	5,93,046 0 0	1,10,29,035 4 0
.....	1,84,84,205 15 9	.....	1,84,84,205 15 9
.....	10,52,406 4 5	.....	10,52,406 4 5
.....	2,16,234 8 7	.....	2,16,234 8 7
.....	3,16,077 7 9	.....	3,16,077 7 9
.....	2,85,974 12 1	.....	2,85,974 12 1
.....
.....
.....	1,53,14,919 0 7	.....	1,53,14,919 0 7
.....	3,566 12 6	.....	3,566 12 6
.....	3,566 12 6	.....	3,566 12 6
.....	33,715 10 0	.....	33,715 10 0
.....	4,299 15 4	.....	4,299 15 4
.....	38,015 9 8	.....	38,015 9 8
.....	1,13,551 0 6	12,544 0 0	1,27,096 0 6
21 14 0	50,627 1 3	.....	50,719 8 3
7 15 0	6,57,228 3 6	.....	6,57,228 3 6
.....	22,023 5 11	.....	22,023 5 11
.....	2,848 8 0	.....	15,770 11 0
29 13 0	8,47,948 15 2	12,544 0 0	8,73,541 13 2
.....	27,582 10 10	.....	27,582 10 10
95 9 0	2,13,67,415 5 0	9,66,300 0 0	2,72,87,054 2 9
.....	3,10,717 3 8	.....	3,43,230 12 8
96 5 0	23,924,224 10 6	9,66,300 0 0	2,69,48,533 6 6

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head	General Direction Division
EXPENDITURE—10, FOREST.	
B.—CONSERVANCY AND WORK.	
I—Timber and other produce removed from the Forests by Government Agency—	
(a) Timber
(b) Firewood and charcoal
(c) Bamboos
(d) Sandalwood
(e) Grass and other minor produce
Total, B-I
II—Timber and other produce removed from the Forests by consumers or purchasers—	
Establishment charges recoverable from other Governments, Departments, etc.
Deduct—Establishment charges recoverable from contractors etc. on account of pay of Depot-officers, etc.
Total, B-II
III—Live-stock, stores, tools and plant—	
(a) Purchase of cattle
(b) Feed and upkeep of cattle
(c) Purchase of stores, tools and plant.	1,750 0 0
(d) Customs duty
Total, B-III	1,750 0 0
IV—Communications and Buildings—	
(a) Railways and Tramways
(b) Roads and bridges (other than those in connection with Railways and Tramways).
(c) Buildings
(d) Other works
Total, B-IV
V—Organization, improvement and extension of Forests—	
(a) Demarcation
(b) Forest Settlement
(c) Surveys
(d) Working Plans
(e) Plantations
(f) Reproduction
(g) Fire protection
(h) Other works
Total, B-V

of the different Divisions for the financial year 1946-47—contd.

Silvicultural Division	Total of Circles	Additional Director of Civil Supplies	Total for 1946-47 Bombay Province
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	89,59,538 13 10	.....	89,59,538 13 10
.....	15,28,633 11 3	.....	15,28,633 11 3
.....	534 2 0	.....	534 2 0
.....	41,150 13 5	.....	41,150 13 5
.....	573 3 0	.....	978 3 0
.....	56,90,955 11 10	.....	56,90,955 11 10
.....	2,87,884 3 7	.....	2,87,884 3 7
.....
.....	2,87,884 3 7	.....	2,87,884 3 7
.....
.....	795 0 0	.....	795 0 0
913 4 0	40,037 5 3	.....	40,000 0 2
.....
213 4 0	40,832 5 2	.....	40,795 9 2
.....
.....	1,44,385 1 0	.....	1,44,385 0 0
.....	1,70,924 5 10	.....	1,70,924 5 10
.....	80,755 15 8	.....	80,755 15 8
3 10 0	13,087 12 2	.....	13,087 12 2
.....
3 10 0	4,18,150 1 8	.....	4,18,150 11 8
.....
.....	9,083 1 2	.....	9,083 1 2
.....	5,545 14 0	.....	5,545 14 0
.....
.....	1,24,262 0 2	.....	1,24,262 0 2
.....	10,707 15 0	.....	10,707 15 0
.....	1,54,061 3 5	.....	1,54,061 3 5
.....	1,18,473 6 5	.....	1,18,473 6 5
.....	89,981 7 9	.....	89,981 7 9
.....	4,56,856 1 1	.....	4,56,856 1 1

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head.	General Direction Division
Rs. a. p.	
EXPENDITURE—10, FOREST—contd.	
VI.—Miscellaneous—	
(a) Rent of leased forests and payments to shareholders in forests managed by Government	.....
(b) Law charges	.....
(c) Grain Compensation allowance	.....
(d) Clothing	.....
(e) Famine Fodder charges	.....
(f) Other charges	180 0 0
Total, B-VI	180 0 0
VII.—Suspense—	
(a) Work advances	.....
Total, B-VII	.....
VIII.—Demarcation of boundaries (between British territory and Indian States).	
.....	
IX.—Charges recoverable from other Governments, Departments, etc.	
.....	
Total, B-Conservancy and Works	1,930 0 0
C. ESTABLISHMENTS.	
A. GENERAL DIRECTION.	
I.—Pay of Officers.	
(a) Chief Conservator or Conservators	..... (Charged 39,719 11 0)
(b) Superior Officers plus Personal and special pay (Charged)	..... (Voted)
Superior Officers plus Personal and special pay (Voted)	..... (c) 5,016 13 0
Personal Assistant to the Chief Conservator plus special pay (Voted)	..... (c) 7,331 0 0
(c) Leave Salary	..... (Charged) (c) 3,750 14 0
	..... (Voted) 160 8 0
	..... (c) 3,476 15 0
Total, I	..... (Charged) 30,550 4 0
	..... (Voted) (c) 3,750 14 0
	..... (c) 7,331 0 0
	..... (c) 8,263 12 0
II.—Pay of Establishment—	
(a) Subordinate Forest and depot Establishment plus special and personal pay	.....
(b) Office Establishment plus special and personal pay	..... 9,033 14 0
(a) Office Establishment	.....
(c) Proficiency allowance	.....
(b)	.....
(d) Temporary Establishment plus special pay	..... (c) 235 12 0
(c)	..... 3,106 8 0
(e) Leave Salary	..... (c) 1,725 15 0
(d)	..... 904 2 0
Total II	..... (c) 2,022 12 0
	..... 13,044 8 0

of the different Divisions for the financial year 1946-47—contd.

Silvicultural Division	Total of Circle	Additional Director of Civil Supplies	Total for 1946-47 Bombay Province
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	80,052 4 9	.....	80,052 4 9
.....	982 0 0	.....	982 0 0
72 15 0	47,458 5 8	.....	47,531 4 8
6,445 5 0	40 2 6	.....	40 2 6
	25,365 2 5	.....	33,990 7 8
8,518 4 0	1,53,897 15 7	.....	1,62,596 3 7
.....	-64 6 0	.....	-64 6 0
.....	-64 6 0	.....	-64 6 0
.....	568 6 0	.....	568 6 0
.....	-90 0 0	.....	-90 0 0
3,735 2 0	68,50,291 6 11	.....	68,99,956 8 11
.....	99,108 15 0	.....	1,59,826 10 0
.....	16,150 15 0	.....	16,169 15 0
.....	33,816 13 0	.....	33,816 13 0
13,220 5 0	1,62,005 14 0	.....	1,67,569 0 0
.....
.....	239 5 0	.....	4,150 15 0
.....	6,637 19 0	.....	10,114 9 0
.....	1,33,163 4 0	.....	1,67,794 6 0
13,220 5 0	1,84,995 7 0	.....	2,19,543 8 0
3,464 11 0	9,67,005 5 0	.....	9,60,460 3 0
3,357 7 0	2,25,095 11 0	2,174 15 0	2,54,641 15 0
.....
1,783 11 0	1,35,515 8 0	.....	1,40,701 3 0
325 7 0	78,801 10 0	.....	81,761 2 0
8,991 4 0	13,96,421 5 0	2,174 15 0	14,23,594 7 0

* Includes Rs. 1,42,462-10-6 of the Working Plans, L. S. C. which is transferable to "E Post War Reconstruction and Development Programme".

FORM No. 68.—Summary of Revenue and Expenditure

Budget Head		General Direction Division
		Rs. a. p.
EXPENDITURE -10, FOREST—contd.		
III—Allowances, Honoraria, etc.—		
(a) Compensatory allowances.	{ Charged ... Voted ...	1,675 0 0
(b) Travelling allowance	{ Charged ... Voted ...	(c) 636 1 0 (c) 3,368 15 0 1,338 14 0
(c) Plague allowance	Voted ...	.....
(d) House-rent allowance.	.....	.....
(e) .....	.....	.....
(f) Forest training	.....	59,265 8 0
(g) Grain compensation	.....	.....
(h) Cost of passages granted under the Superior Service Rules, 1924	.....	(c) 4,493 6 0
(i) (Charged).	.....	2,646 0 0
(j) Payments on account of Medical treatment of British Officers of the	.....	.....
(k) "Superior Civil Service".	.....	(c) 522 14 0
(l) Dearness allowance	.....	6,283 9 0
(m) Cost of lying allowance	{ Charged ... Voted ...	..... (c) 2,052 0 0
(n) Condensed Milk	.....	1,639 8 0
Total III		{ Charged ... (c) 5,120 0 0 Voted ... (c) 5,743 13 0 1,00,201 1 6
IV—Contingencies—		
(a) Stationery	.....	.....
(b) Carriage of tents and records	.....	1,472 5 6
Other Non-contract contingencies		.....
(c) Rents, rates and taxes	.....	.....
(d) Service postage and telegram charges	.....	1,857 13 5
(e) Sundries	.....	.....
Total IV		3,330 8 0
V.—Establishment charges recoverable from other Governments, Departments, etc.—		3,800 0 0
(a) { Deduct amount recoverable from Raisingpur Estate on account of pay of Rangers, etc.	.....	.....
{ Establishment charges payable to Central Government	.....	.....
Deduct establishment charges recoverable from contractors, etc. on account of pay of guards, etc.		.....
Total V		3,800 0 0
Total... C. Establishment	.....	1,55,231 8 6
A. General Direction	.....	.....
D—SPECIAL DEVELOPMENT PROGRAMME		.....

(c)—Chargeable to "C" Establishment.

of the different Divisions for the financial year 1946-47—contd.

Subsidiary Division	Total of Circles	Additional Director of Civil Supplies	Total for 1946-47 Bombay Province
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
835 0 0	1,95,947 13 0	430 0 0	1,98,877 13 0
.....	92,327 8 0	.....	29,621 10 0
8,073 3 0	3,57,543 4 0	79 9 0	3,77,405 2 0
.....	6 8 0	.....	6 8 0
121 7 0	41,460 1 0	.....	41,581 8 0
.....	8,190 2 0	.....	97,455 10 6
.....
.....	.....	.....	7,139 2 0
.....
4,135 15 0	9,38,368 2 0	.....	9,40,604 0 0
.....	19,965 5 0	.....	19,965 8 0
3,083 11 0	42,626 10 0	.....	42,626 13 0
.....	(k) 1,339 15 0	.....	(k) 1,339 15 0
.....	42,293 0 0	.....	42,293 10 0
16,254 7 0	15,87,381 13 0	1,184 6 0	17,87,465 5 8
10 5 0	2,620 10 8	.....	2,100 15 5
131 4 0	9,031 14 0	.....	1,635 7 6
.....	11,658 6 6	.....	11,658 6 6
300 7 6	53,933 8 6	.....	50,293 13 5
294 1 0	15,459 11 7	.....	15,752 12 7
935 1 6	96,177 3 0	.....	1,07,312 7 9
.....	1,048 0 0	.....	5,095 0 0
.....	1,539 12 6	.....	1,539 12 0
.....	500 0 0	.....	500 0 0
.....	11,900 0 0	.....	11,900 0 0
.....	15,357 13 0	.....	13,107 12 0
37,341 1 5	34,24,127 1 2	2,373 0 0	34,41,650 0 5
.....	27,692 10 10	.....	27,692 10 10

(c) = Chargeable to "C" Establishment.

FORM NO. 68.—*Summary of Revenue and Expenditure*

Budget Head.	General Direction Division
EXPENDITURE—10, FOREST—contd.	
" E " POST WAR RECONSTRUCTION AND DEVELOPMENT.	
I—CONSERVANCY AND WORKS,	
<i>I.—Organization, improvement and extension of Forests—</i>	
(a) Demarcation	Rs. p.
(b) Forest Settlement	
(c) Surveys	
(d) Working Plans	
(e) Plantations	
(f) Reproduction	
(g) Fire protection	
(h) Other works	
Total I ...	
<i>II.—Communications and Buildings—</i>	
(a) Railways and Tramways	
(b) Roads and bridges	
(c) Buildings ¹	
(d) Other works	
Total II ...	
<i>III.—Live-stock Stores, tools and plant—</i>	
(a) Purchase of cattle	
(b) Feed and upkeep of cattle	
(c) Purchase of stores, tools and plant	
(d) Customs duty	
Total III ...	
<i>IV.—Miscellaneous—</i>	
(a) Rent of leased forests and payments to shareholders in forests managed by Government	
(b) Law charges	
(c) Grain Compensation allowance	
(d) Clothing	
(e) Famine Fodder charges	
(f) Other charges	
Total IV ...	
TOTAL " E " (I)—CONSERVANCY AND WORK ...	

of the different Divisions for the financial year 1946-47—contd.

Silvicultural Division	Total of Circles	Additional Director of Civil Supplies	Total for 1946-47 Bombay Province
Rs. p. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
.....
.....
.....	2,685 8 3	.....	2,685 8 3
.....	6,155 6 0	.....	6,155 6 0
.....	1,734 14 9	.....	1,734 14 9
.....
.....	12,705 13 6	.....	12,705 13 6
.....	23,281 10 6	.....	23,281 10 6
.....
.....	6,596 10 0	.....	6,596 10 0
.....
.....
.....	6,596 10 0	.....	6,596 10 0
.....
.....
.....	1,233 10 0	.....	1,233 10 0
.....
.....	1,233 10 0	.....	1,233 10 0
.....
.....
.....
.....	45 9 0	.....	45 9 0
.....
.....
.....	45 9 0	.....	45 9 0
.....
.....	31,157 7 6	.....	31,157 7 6

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head	General Direction Division
EXPENDITURE—10, FOREST— <i>contd.</i>	Re. a. p.
II—ESTABLISHMENT	
<i>I.—Pay of Officers—</i>	
(a) Conservators { Charged Voted
(b) Superior Officers plus Personal and special pay Voted
(c) Leave salary Voted
Total I { Charged Voted
<i>II.—Pay of Establishment—</i>	
(a) Subordinate Forest and Depot Establishment plus special and personal pay.
(b) Office Establishment plus special and personal pay
(c) Proficiency allowance
(d) Temporary Establishment plus special pay
(e) Leave salary
Total II
<i>III.—Allowances, Honoraria, etc.—</i>	
(a) Compensatory allowance { Charged Voted
(b) Travelling allowance { Charged Voted
(c) House rent allowance Voted
(e) Forest training
(f) Grain compensation
(i) Dearness allowance
(j) Cost of living { Charged Voted
Total III { Charged Voted
<i>IV.—Contingencies—</i>	
(a) Stationery
(b) Carriage of tents and records
(c) Rents, rates and taxes
(d) Service postage and telegram charges
(e) Sundries
Total IV
TOTAL II ESTABLISHMENT { Charged Voted
TOTAL "E" POST WAR RECONSTRUCTION AND DEVELOPMENT

the different Divisions for the financial year 1946-47—contd.

Stivicultural Division	Total of Circles	Additional Director of Civil Supplies	Total for 1946-47 Bombay Province
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	4,250 0 0	.....	4,250 0 0
.....	4,562 4 0	.....	4,562 4 0
.....	10,639 8 0	.....	10,639 8 0
.....	1,181 13 0	.....	1,181 13 0
.....	4,250 0 0	.....	4,250 0 0
.....	16,688 9 0	.....	16,688 9 0
.....	15,491 8 0	.....	15,491 8 0
.....	6,305 1 0	.....	6,305 1 0
.....
.....	11,913 14 0	.....	11,913 14 0
.....	920 9 0	.....	920 9 0
.....	33,651 0 0	.....	33,651 0 0
.....
.....	1,964 12 0	.....	1,964 12 0
.....	628 5 0	.....	628 5 0
.....	21,772 10 0	.....	21,772 10 0
.....	160 15 0	.....	160 15 0
.....
.....
.....	12,030 11 0	.....	12,030 11 0
.....
.....	8,130 10 0	.....	8,130 10 0
.....	628 5 0	.....	628 5 0
.....	44,059 10 0	.....	44,059 10 0
.....	146 14 0	.....	146 14 0
.....	588 0 0	.....	588 0 0
.....	299 0 0	.....	299 0 0
.....	502 0 0	.....	502 0 0
.....	135 6 6	.....	135 6 6
.....	1,671 4 6	.....	1,671 4 6
.....	5,078 5 0	.....	5,078 5 0
.....	96,065 7 6	.....	96,065 7 6
.....	1,32,301 4 0	.....	1,32,301 4 0

FORM No. 68.—*Summary of Revenue and Expenditure*

Budget Head.	General Direction Division
	Rs. a. p.
EXPENDITURE—10, FOREST—contd.	
F—Interest on Capital Charged ...	33,338 0 0
Total F ...	33,338 0 0
G—Charges in England—	
(a) Leave salaries and Deputation pay—	
(i) Expenditure of the Secretary of State ... ..	.....
(ii) Expenditure of the High Commissioner for India ...	{ Charged ... 20,016 0 0 Voted ... 13,177 0 0
(b) Sterling Overseas Pay—	
(i) Expenditure of the Secretary of State .. ...	.....
(ii) Expenditure of the High Commissioner for India ... Charged ...	18,799 5 0
(c) Stores for India—	
(i) Expenditure of the Secretary of State... ..	.....
(ii) Expenditure of the High Commissioner for India ... ..	.....
(d) Other Charges—	
(i) Government Scholarship Voted ...	13,527 14 0
(ii) Cost of publication... .. Voted ...	41 5 0
Total, G ...	{ Charged ... 31,816 14 0 Voted ... 25,746 0 0
GRAND TOTAL OF ALL EXPENDITURE ...	2,86,061 2 6
Surplus or deficit ...	-2,73,139 6 6

of the different Divisions for the financial year 1946-47—contd.

Silvicultural Division.	Total of Circles	Additional Director of Civil Supplies	Total for 1946-47 Bombay Province
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	33,338 0 0
.....	33,338 0 0
.....
.....	20,016 9 0
.....	13,177 0 0
.....
.....	18,799 5 0
.....
.....
.....	19,527 14 0
.....	41 5 0
.....
.....	38,515 14 0
.....	26,746 3 0
48,076 3 6	1,04,72,402 7 0	3,359 5 0	1,08,09,829 9 0
-47,979 10 6	+1,55,51,822 3 6	+9,08,430 11 0	+1,51,33,933 13 6

FORM No. 69.—Revenue received and

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other Revenue during year.
1	2	3	4
		Rs. a. p.	Rs. a. p.
NORTH EASTERN CIRCLE.			
East Nasik ...	Timber and other forest produce and revenue from other various sources.	14,808 14 0	2,57,141 2 2
West Nasik ...	Do. ...	59,859 4 0	8,86,768 14 9
East Khandesh ...	Do. ...	44,484 12 9	4,45,524 6 9
West Khandesh ...	Do. ...	1,928 1 0	12,55,792 9 6
West Khandesh Sub-Division.	Do. ...	8,443 15 0	3,91,923 3 6
Direction ...	Do. ...	.....	2,281 0 0
Total, North Eastern Circle		1,09,554 14 9	33,40,926 4 9
NORTH WESTERN CIRCLE.			
Panch Mahals ...	Timber and other forest produce and revenue from other sources.	6,318 9 10	13,33,810 4 4
North Thana ...	Do. ...	1,14,094 6 0	42,47,507 5 3
East Thana ...	Do. ...	2,25,376 13 3	16,37,460 14 7
West Thana ...	Do. ...	1,47,263 13 6	25,27,696 1 9
Surat Sub-Division ...	Do. ...	24,397 0 0	9,77,539 14 8
Direction ...	Do. ...	.....	150 10 0
Total North Western Circle.		5,17,944 10 7	1,09,24,355 2 7
CENTRAL CIRCLE.			
Belgaum ...	Timber and other forest produce and revenue from other various sources.	46,931 5 10	17,94,624 11 8
Kolaba ...	Do. ...	1,21,481 11 11	17,89,092 8 3
Poona ...	Do. ...	4,293 8 0	2,70,203 11 11
Satara ...	Do. ...	23,769 3 0	3,11,031 0 9
Working Plans, Central Circle.	Do. ...	.....	2 0 0
Direction ...	Do. ...	.....	3,553 14 0
Total, Central Circle		1,36,475 12 9	41,85,512 14 7

Outstandings on account of Revenue during 1946-47.

Total.	Amount realized during year.	Balance due to the Department at end of year.	Remarks
5	6	7	8
Rs. a. p.	Rs. a. p.	Rs. a. p.	
2,71,950 0 3	{ 2,58,414 1 3 (a) 599 15 0 }	12,936 0 0	
10,25,633 2 9	{ 9,65,718 7 9 (a) 752 0 0 4,41,320 11 3	59,163 11 0	
4,91,009 3 6	{ (a) 236 0 0 (b) 8 0 0 (c) 10 0 0 (d) 7,063 8 0 }	42,371 0 3	
12,58,720 10 6	{ 12,57,563 13 6 (a) 731 13 0 }	480 0 0	
3,99,767 2 6	{ 3,93,853 6 6 (a) 66 8 0 }	5,947 4 0	
2,281 0 0	2,281 0 0	.....
34,50,361 3 0	{ 33,20,156 3 3 (a) 2,375 4 2 (b) 8 0 0 (c) 10 0 0 (d) 7,023 8 0 }	1,20,746 15 3	
13,40,123 14 2	{ 11,12,866 0 1 (a) 2,17,374 10 9 }	9,888 3 4	
45,61,511 11 3	{ 44,23,351 9 6 (a) 1,269 12 0 16,24,985 0 1	1,36,860 5 9	
18,63,431 11 10	{ (a) 3,912 7 0 23,56,089 11 9	2,35,427 4 9	
26,75,199 15 3	{ (a) 5,023 5 6 23,55,761 0 3	3,14,026 14 0	
10,01,936 14 8	{ (a) 35 0 0 }	75,140 14 0	
120 10 0	150 10 0	.....
14,42,299 13 2	{ 1,04,43,224 0 1 (a) 2,26,722 3 3 }	7,72,343 9 10	
28,41,23 1 6	{ 17,52,59 4 4 (a) 12,759 3 4 }	68,837 1 10	
19,10,574 4 2	{ 12,19,194 6 11 (a) 85,574 2 0 9,52,336 4 11	6,35,805 11 3	
2,74,5 2 3 11	{ (a) 255 13 0 3,17,010 5 9	1,250 4 0	
3,24,503 3 9	{ (a) 6 8 0 }	17,583 6 0	
2 0 0	2 0 0	.....
3,533 14 0	{ (a) 3,503 14 0 60 0 0 }	.....
11,94,918 11 4	{ (a) 55,72,056 1 11 69,243 15 4 }	7,93,695 10 1	

FORM No. 69—Revenue received and

Division. 1	Particulars. 2	Outstandings at commencement of year. 3	Value of sales and other Revenue during year. 4
		Rs. a. p.	Rs. a. p.
SOUTHERN CIRCLE.			
Kanara N. D. ...	Timber and other forest produce and Revenue from other sources.	3,88,974 3	37,44,853 6 1
Kanara E. D. ...	Do. ...	2,03,873 6 3	22,69,423 11 7
Kanara W. D. ...	Do. ...	1,07,443 12 8	10,47,513 2 10
Dharwar-Bijapur ...	Do. ...	73,682 5 3	19,93,077 12 7
Working Plans, Southern Circle.	Do. ...	.....	4,795 1 0
Direction ...	Do. ...	.....	2,273 4 0
Total, Southern Circle ...		7,73,973 11 5	90,62,034 7 1
UTILIZATION CIRCLE.			
Direction ...	.....	.....	85 9 0
FOREST ENGINEERING CIRCLE.			
Direction Division ...	.....	.....	38,815 0 2
General Direction Division.	.....	.....	12,922 5 0
Silviculturist ...	.....	.....	96 9 0
Additional Director of Civil Supplies	.....	.....	9,96,590 0 0
Grand Total, Province of Bombay.		15,07,983 1 5	2,84,54,189 2 2

Outstandings on account of Revenue during 1946-47—contd.

Total.	Amount realised during year.	Balance due to the Department at end of year.	Remarks.
5	6	7	8
Rs. a. p.	Rs. a. p.	Rs. a. p.	
41,33,824 8 4	36,11,524 11 3 (a) 5,273 9 10 (b) 50 0 0 (c) 6 0 0 (d) 3,969 8 8	5,12,353 11 7	
24,73,897 1 10	21,50,057 4 10 (a) 894 11 0 (b) 100 0 0 (c) 6,105 12 0	3,4 139 6 0	
11,55,056 15 6	10,42,233 6 0 (a) 1,371 3 4 (b) 174 4 6 (c) 962 0 0 (d) 10,513 14 2	79,259 8 6	
2 10	18,91,359 0 7 (a) 36,240 12 6 (b) 54 0 0	3,09,096 4 9	
4,798 1 0	4,798 1 0	.....
2,273 4 0	2,273 4 0	.....
58,36,008 9 6	56,22,213 11 8 (a) 44,855 5 8 (b) 1,090 0 0 (c) 20,519 2 10 (d) 268 4 6	11,44,801 2 10	
96 9 0	36 9 0	.....
38,815 0 9	38,815 0 9	.....
12,922 3 0	12,922 3 0	.....
96 9 0	96 9 0	.....
9,04,590 0 0	9,04,590 0 0	.....
3,00,52,118 4 3	2,52,16,150 11 8 (a) 3,43,230 12 5 (b) 8 0 0 (c) 1,1 0 0 (d) 27,622 10 12 (e) 268 4 6	27,63,477 13 0	

(a) Refund.

(b) Written off.

(c) Deleted.

(d) Transfer from the Deposit amount of Special Development Fund

(e) Errors corrected.

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FOREST ADMINISTRATION REPORT OF THE PROVINCE OF BOMBAY FOR THE YEAR 1947-48.

CHAPTER 1

Constitution of State Forests.

(1) ALTERATION IN AREAS.

The changes in the forest area were as follows :—

Class of Forest.	Area on 1st April 1947 Sq. m. 2	Added during the year. Sq. m. 3	Excluded during the year. Sq. m. 4	Area on 31st March 1948. Sq. m. 5	
1	2	3	4	5	
Reserved	In charge of the Forest Department.	10,599	2	4	10,557
	In charge of the Revenue Department.	1,558	..	..	1,558
Protected	In charge of the Forest Department.	160	..	..	160
	In charge of the Revenue Department.	595	..	..	595
Total ..	12,872	2	4	12,870	

2. The areas added and excluded comprise :—

	<i>Square miles.</i>	
	Gain	Loss
Afforestations and disforestation	...	2
Correction of errors	...	2
	2	4

— Nett loss 2 square miles.

(2) FOREST SETTLEMENT.

3. The total area of reserved forests pending settlement at the commencement of the year was 6 square miles, 457 acres to which square mile and 612 acres were added during the year.

The area finally settled during the year was 3 square miles, 17 acres of which 2 square miles 578 acres were settled actually in the previous year but not accounted for during that year. 49 acres out of the

area in hand at the commencement of the year were dropped as the proposal for 47 acres was abandoned and 2 acres were deleted for correcting the error of the past. The cost on forest settlements was Rs. 7,717.

4. Regarding the acquisition of I class demarcation survey numbers in the Satara and Poona Divisions, an area of 231 acres 26½ gunthas was acquired in the former Division at a cost of Rs. 7,47 while in Poona Division, no area came up for final acquisition. The acquired lands have yet to be notified under the Indian Forest Act. With a view to accelerating the acquisition proceedings in the Satara and Poona Divisions, Government have sanctioned the appointment of a Special Land Acquisition Officer. Rs. 569 were spent on account of compensation paid for acquisition of lands for the Game Sanctuary in the Northern Division Kanara.

(3) DEMARCATION.

5. No new boundaries were demarcated during the year. Existing boundaries (including those between the Indian Union territory and Goa and the Indian States) were repaired at a cost of Rs. 8,442. The total length of the forest boundaries at the close of the year remained unchanged at 37,110 miles.

(4) FOREST SURVEYS.

6. No survey work was carried out during the year under report.

7. The expenditure on the constitution of State Forests was Rs. 16,158 as against Rs. 16,361 of the previous year.

CHAPTER II.

Management of State Forests.

(1) REGULATION OF MANAGEMENT.

(a) Preparation of Working Plans.

8. No new Working Plans were sanctioned during the year.

9. Writing of the " Revised Working Plan for the East Khandesh Babul Forests " was completed. This combines the existing two Working Plans, namely the (i) Working Plan for the Transpurna Babul Forests of Edlabad Range, and (ii) Working Plan for the Babul Forests of Jamner, Bhusawal and Edlabad Ranges of the East Khandesh Division. Similarly, the drafting of the " Working Plan for the East Khandesh Scrub and Jamner Teak Reserves " and the " Working Plan for the Anjan and Scrub Forests of the Edlabad Range " of the East Khandesh Division has been completed.

10. Two Preliminary Reports based on the enumeration data collected were drawn up, one for the Mandvi Forest Working Plan and the other for the Panch Mahals forests.

11. Enumeration surveys were in progress in the following cases :—

- (i) Thana Working Plan.
- (ii) Kolaba Working Plan.
- (iii) Working Plan for the Nagargali, Series XIX.
- (iv) Working Plan for N. D. Kanara, High Forest Series I to VII.

In addition, 373 square miles of the unorganized forests, and 90 square miles of organized forests under (i) Gund Working Plan, (ii) Kalinadi Slopes Working Plan, (iii) Nersol Slopes Working Plan and (iv) Bhagwati Blocks Working Plan were also enumerated during the year.

12. Other works carried out by the Working Plans Divisions consisted of preparing stock maps of the areas enumerated, compilation of the data collected, and showing statistics of bamboo yield and softwood and hardwood species, and preparing stock maps of the bamboo areas.

13. In the organized forests the enumeration done was limited to 10 per cent. of the areas, while in the unorganized forests the work was over 5 per cent. of the areas.

14. A scheme for the exploitation of Teak and Tiwas from the Protected Forests of the five Dang villages in Kalwan Range of the East Nasik Division, namely Shribhuwan, Malgawhan, Amodgawhan, Loggaon and Surgane, was prepared according to which all Teak trees 36" and up in girth are to be marked for felling and trees below the girth are to be marked under the Improvement system. The total area involved consists of 2,628 acres 31 gunthas out of which the markings in an area of 150 acres 20 gunthas of survey number 148 in Shribhuwan village were disposed of for Rs. 49,792 under the scheme.

15. The enforcement of a rotational grazing scheme for the Igatpuri Forests was under consideration, and the Divisional Forest Officer, Working Plans, Northern Circle, submitted a report in this connection to the Conservator of Forests, Research and Working Plans Circle.

(b) Control of Working Plans.

16. The prescriptions of the sanctioned Working Plans were adhered to as far as possible, the deviations found necessary being regularized under proper sanction. Advance workings of coupes had to be resorted to also the working of some of the arrear coupes especially to meet the requirement of firewood and charcoal for local consumption as well as in Bombay and its suburbs.

17. In North Western Circle 237 advance and 70 arrear coupes were put up for sale with the 225 current coupes. Of these 184 current, 229 advance and 27 arrear coupes were sold, 92 coupes remaining unsold.

18. No casuarina coupes could be made available for sale as per prescriptions of the Working Plan as almost all Casuarina trees were blown down by the cyclone of 1940.

19. Out of 6 kurans of the Kuran Working Circle, the area of which is distributed in the villages of the Palghar Range in the North Thana Division, three kurans have been leased out to the Adarsha Dugdhalaya for a period of six years from 1943-44. Two more kurans were leased out to the Cattle Owners Union, Bombay, under Government orders in February 1948; for which Rs. 5,450 were realized through the Milk Commissioner, Bombay, for these two kurans. The remaining one kuran was leased to one Mr. Killedar of Bombay.

20. Most of the area under the Babul Working Circle in the West Thana Division has been disforested and hence no coupe was due for working under the plan during the year. A small area was, however, farmed out as usual for 'Datan' sticks.

21. Compartment 'A' due for working during the year in the Bamboo Working Circle, was thrown open and permits for extraction of bamboos and bundhis at the sanctioned rates were issued in all the three Thana Divisions.

22. Under the Thana Woodlands Working Plan, 81 normal and 19 arrear coupes were put up for sale, of which 74 and 15 were sold out respectively, the remaining 11 remaining unsold. Out of the 117 normal coupes only 81 were advertised as the remaining 36 contained poor and sparse tree growth.

23. Coupes under the Thana Malki Teak Working Plan were not sold as the advance working of several of the fuel coupes absorbed most of the labour available.

24. No working was done in the catchment areas of the Tulsi and Vihar lakes, which belong to the Bombay Municipality, due to sparse tree growth as well as for shortage of labour.

25. Two coupes of the Teak Working Circle of the Igatpuri Forest were sold out of the 4 coupes advertised. The Pasture Working Circle has been substituted by rotational grazing scheme plus formation of grass cutting kurans. An area of 1768 acres 10 gunthas out of the grass cutting kurans has been declared as permanently closed for grazing. The remaining area of three kurans was advertised for sale but was not sold.

26. In Panch Mahals 59 coupes were sold, the remaining 4 coupes being unsold. One coupe was not advertised for sale as it contained sparse tree growth. No matchwoods were exploited in the Matchwood Working Circle, as most of the trees were exploited during the War period.

27. In Surat Sub-Division 24 coupes were sold for clear-felling and 21 for first thinning. One thinning coupe in Mandvi Range remained unsold as it was not put up for sale due to sparse growth. All the normal coupes in the Baragaon Dangs forests were also sold during the year.

28. Similarly, in the North Eastern Circle 266 current and 26 advance coupes were sold, out of the 322 current and 53 advance coupes advertised for sale. In addition 4 Malki survey numbers in West Nasik Division, one fuel coupe of Ladachi in Nasik Range and two coupes from Peint Mahal were sold for the increased production of charcoal. Two more coupes in Peint Mahal were worked departmentally for charcoal production. Coupe No. 16-F. S. II of the Protection Working Circle of the Working Plan for the Poona Forest Division, which had remained unsold was worked departmentally for the benefit of the villagers. Here the manufacture of charcoal was carried out on piece-work system.

29. Compartment 18 of Nagargali Series XIX which was not worked in 1944 owing to irregular war fellings resorted to in whole of the series, was worked during the year under report. Also an area of 20 acres unfelled by the contractor during the previous year in Regeneration Area 20 of the series was worked departmentally. 19 arrear coupes, out of Revised Working Plan for Teak Pole Fuel and Sandalwood Forests of Nagargalli and Khanapur Ranges were sold during the year, in addition to two coupes worked departmentally. In Kolaba 49 advance and 3 arrear coupes were sold along with 7 current coupes out of 14 taken out for sale. Two casuarina coupes were worked for supply of firewood to Alibag town. Coupe 21 of Matheran Plateau Felling Series I was worked for feeding the Matheran Forest Depot; while in coupes Nos. 14 onwards in the Terrace Felling Series, II working has been stopped owing to prohibitive costs involved.

30. Sub-block 2 of Block III—Mahableshwar Range, sub-blocks 13 and 20 of Block X and 1 of Block XI—Patan Range, of Harda-Shigekai Working Circle of Satara Division were worked under Improvement Felling system for the manufacture of charcoal for Depot and Civil Supply.

31. In Poona Division sub-block 'F' of Pasture Working Circle, which was due during the year, was not worked as there were no trees in the area available for extraction. The working of coupes in the Protection Working Circle was also held in abeyance. An area of 26 acres, 39 gunthas of the I class Demarcation Survey numbers was however worked during the year according to the five year programme drawn up. Some Babul coupes in Poona Division were sold on the condition that Babul logs 36" to under 40" in mid-girth and 4½' and up in length suitable for pestals of "Oil Ghanis" should be sold to the Village Oil Industries Experimental Workshop at Poona at Rs. 5 per log.

32. As usual the coupes in Block VI of the Karwar Fuel Reserves Working Plan due for felling from 1935-36 onwards were withheld from sale until it could be seen if the coupes already cut had recovered. Coupes of block XIII thrown open for the exercise of privileges as per Government orders and those in Block XXIV were not worked being inaccessible. For meeting the fuel requirements of the civil population in Bijapur District, some pasture areas were taken up for working in

lieu of the coupes due for felling which contained but poor growth. To avoid payment of subsidy an advance coupe was worked for running the Honawar Firewood Depot.

33. In almost all the Circles some of the advertised coupes remained unsold and hence unworked owing to different causes, e.g. lack of demand in the locality, poor stock, inaccessibility of the area, paucity of labour, abnormally long lead etc.

(2) COMMUNICATIONS AND BUILDINGS.

(a) Roads and Bridges.

34. The total amount spent on roads and bridges was Rs. 2,69,096, of which Rs. 35,736 was spent on new works and Rs. 2,33,354 on repairs to existing roads and paths.

35. In North Western Circle ordinary and special repairs to the existing roads were carried out on 171 miles at a cost of Rs 9,139 as against Rs. 7,518 in the previous year. The increase is due to greater length and increased cost of labour etc.

The Municipal Commissioner, Bombay, has not yet taken back the Tansa-Atgaon road for maintenance as proposed.

36. The cost incurred in North Eastern Circle on ordinary and special repairs, was Rs. 25,190 for 727 miles 5 furlongs, the cost of the last year on such work being Rs. 26,388. In addition special repairs to roads were carried out, under the Post-War Reconstruction Scheme No. 55 to the following roads to the extent of Rs. 8,840 :—

West Nasik Division.

	Rs.
(i) Satighat-Harsul Road (3 miles)	2,000
(ii) Golshi-Haste (7½ furlongs)	1,759
(iii) Vaijapur-Borajanti (5 Miles—3 furlongs)	3,060
(iv) Deogiri-Satrasen (11 Miles—2 furlongs)	2,021
Total	8,840

37. Government have ordered that the Vani-Hatgad road should be transferred to the District Local Board, Nasik, for maintenance. The District Local Board has however not taken over the road and has represented that the grant of Rs. 500 sanctioned for the purpose is inadequate and that it should be increased from Rs. 8,000 to 9,000.

38. In the Central Circle, annual repairs to over 27 miles 3 furlongs of cart roads, bridle-paths and approach roads were carried out at a cost of Rs. 4,004. Of this Rs. 2,607 was spent on resurfacing 16 furlongs of Gunji-Shiroli road. Estimates for remetalling Nagargali-Nana-Kesarodga road and Tavargatti-Nana-Kesarodga road were prepared and were awaiting sanction at the close of the year.

39. An amount of Rs. 35,736 was spent in the Southern Circle on new works, namely :—

- (i) Resurfacing and metalling 4 furlongs of the Dandeli Depot roads.
- (ii) Construction of a suspension bridge over Kaneri river, and
- (iii) Compensation for the acquisition of land for forest road in Virnoli Range in N. D. Kanara.

40. The expenditure on new works last year was Rs. 14,635.

41. 404 miles of roads were repaired at a cost of Rs. 1,85,986, against Rs. 1,05,589 of the previous year. The increase in the cost of the year is due to the advance collection of metal for remetalling roads badly cut up by heavy war time traffic.

42. The Alnavar-Dandeli Railway was maintained at a cost of Rs. 1,47,322 which was paid to the M. & S. M. Railway Company against Rs. 1,44,388 paid in the preceding year.

(b) *Buildings.*

43. The total expenditure on special repairs and on construction of new buildings was Rs. 28,336 including Rs. 5,855 allotted from Special Development Fund, as against Rs. 57,351 of the previous year. The expenditure on ordinary repairs to existing buildings for the two years was Rs. 59,435 and 51,088 respectively. The new buildings and the buildings subjected to special repairs were as follows :—

- (i) Third bungalow at Dandeli.
- (ii) Quarters for guards at Shingatgeri.
- (iii) Quarters at Hunsbettikop.
- (iv) Quarters at Kolikeri.
- (v) Quarters at Haytuga.
- (vi) Verandah to Dandeli Dispensary.
- (vii) Additions and alterations to the Range Forest Officer's quarters and office at Virnoli.
- (viii) Electric installation in the Divisional Forest Officer, Dharwar-Bijapur's bungalow at Dharwar.
- (ix) Advertisement charges for the construction of new buildings to be constructed in the Dharwar-Bijapur Division under Post-War Reconstruction Scheme 56.

(c) *Other works.*

44. An amount of Rs. 74 was paid to the Public Works Department as percentage charges for scrutinizing the estimates for the Barchi well to be constructed under Post-War Reconstruction Scheme 56. Rs. 2,221 was spent on repairs to existing wells, compounds, and payment of rent for the maintenance of the telephone line in N. D. Kanara. The costs on new works and on repairs during the preceding year were Rs. 310 and Rs. 13,091 respectively.

45. The following wells were constructed under Village Water Supply Scheme from funds granted by the Commissioner, Central Division, under 39-Public Health :—

Name of the well.	Division.	Cost of the well.		
		Rs.	a.	p.
(i) Well at Birola ...	East Nasik ...	2,349	1	3
(ii) Well at Rankheda ...	Do. ...	2,192	10	0
(iii) Well at Lakdya Hanuman	West Khandesh Sub-Division ...	1,364	3	0
(iv) Well at Shahana ...		1,413	11	0
(v) Well at New Aslod		1,414	13	0
Total ...		8,734	6	3

46. Besides the construction of the 5 wells, repairs to the Borpani well in West Khandesh Sub-Division were carried out to the extent of Rs. 452, the amount remaining unpaid at the close of the year.

(3) PROTECTION OF FORESTS.

(a) General Protection.

47. The following table compares the number of forest offences during the year with those of the previous year and the average of the past three years :—

Class of offences	1947-48					Total for 1946-47	Average for 1944-45 to 1946-47
	North Western Circle	North Eastern Circle	Central Circle	Southern Circle	Total 1947-48		
1	2	3	4	5	6	7	8
I. Injury to Forest by fire.	561	486	351	146	1,544	1,261	1,870
II. Unauthorised felling or removal of Forest produce.	4,677	6,873	4,135	2,241	17,926	16,316	16,180
III. Unauthorised grazing.	1,307	1,681	1,283	296	4,567	4,930	4,756
IV. Other offences. ...	800	1,376	714	401	3,791	3,538	3,250
Total 1947-48 ...	7,345	10,916	6,483	3,084	27,828	..	..
Total for 1946-47 ...	7,253	10,069	6,269	2,502	..	20,093	..
Average for 1944-45 to 1946-47.	7,087	10,588	5,766	2,530	..	..	26,111

48. The total number of offences detected during the year shows an increase of 1,735 offences over the number of the previous year and of 1939 over the average of the past three years. The increase of 1,735 is made up as follows :—

(i) North Western Circle ...	...	...	92
(ii) North Eastern Circle ...	...	...	847
(iii) Central Circle ...	...	...	214
(iv) Southern Circle ...	...	...	582
Total ...			1,735

49. *I. Injury by fire and fire-protection.*—The fire incidences showed an increase of 283 during the year. The North Western Circle contributed 39 cases towards the increase, the area burnt by fire in the Circle being 28 square miles more than that of the previous year. The total area burnt was 97 square miles. In the North Eastern Circle there was an increase of 100 offences, though the total area burnt in the Circle was 21 square miles less than that of the previous year. This decrease is due to the best results achieved on account of the employment of fire-watchers, *etc.*, in West Khandesh Division. The Central Circle showed an increase of 86 cases, all the Divisions except Satara Division contributing towards the increase.

The reduction of the fire incidences in Satara are attributed to the removal of grass from forests by the villagers owing to scarcity of fodder for cattle. The Southern Circle also contributed 58 cases towards the increase for which all the Divisions except Eastern Division Kanara were responsible.

50. In East and West Khandesh Districts most of the forest fires were caused by the villagers engaged in shikar and in the collection of mhowra flowers, gum and honey, *etc.* These facts were brought to the notice of the Commissioner, Central Division, who has instructed the Collectors of the two districts to issue warning to the villagers and to inflict communal punishment like stopping the privilege of collection of mhowra flowers, *etc.*, if the warning has not the desired effect.

51. The following measures were proposed to reduce the fires in Satpudas :—

- (i) Early controlled burning up to 15th November.
- (ii) Reduction to five years in the closure period of the coupes which are in the interior in the Satpudas.
- (iii) Prescription of short period from October to end of February only for bamboo extraction from the forests in Satpudas.

Special precautionary measures were also taken in parts of N. D. Kanara and E. D. Kanara in the Southern Circle.

52. The area of plantation burnt by accidental fire during the year in E. D. Kanara was 307 acres as against 637 of last year.

53. *II. Unauthorized Felling and Removal of Forest Produce.*—There was also an increase of 1,610 cases under this class, all the Circles contributing towards the increase.

54. The increase in North Western Circle was 210. West Thana, Panch Mahals and Surat Sub-Division shared the increase, while the North and East Thana Divisions showed decreases.

Similarly the North Eastern Circle showed an increase of 506 cases over the previous year's figure, the East and West Khandesh Divisions and Sub-Division being responsible for the increase, the remaining two Divisions, *viz.*, the East and West Nasik Divisions showing decreases. In the Central Circle there was an increase of 421 cases. Here the Belgaum, Kolaba and Poona Divisions showed increases but the offences in Satara Division were less than in the preceding year. In the Southern Circle there was an increase of 473 cases for which all the Divisions were responsible.

55. The increase of cases under this head is mainly due to the prevailing high prices for fuel as also to its scarcity. In Kolaba Division, the forests are exposed to heavy illicit cuttings by the villagers, there being an easy outlet for transporting the illicit material by sea. Measures for the purchase of a motor boat for patrolling the coast intensively have already been taken. Though there was a reduction in the number of illicit fellings in Satara Division, there were a number of illicit fellings in the evergreen areas of the Division with the intention of getting land for cultivation. Illicit cuttings were again resorted to during the year by the people of Shimola, Navali, Yerandal, Kumathe, Mukawali and Zanzawadi. Proper action is being taken against the offenders under Government orders. The case in connection with the heavy illicit cuttings in Taloda Range by malki teak contractors and forest coupe contractors was handed over to the Police for further investigations.

56. *III. Unauthorized Grazing and Protection from cattle.*—The number of offences under this category decreased by 363 cases. All the Circles except the Southern Circle showed a decrease under this head. The Dharwar-Bijapur Division was chiefly responsible for the increase, where owing to the scarcity of fodder illicit grazing in closed areas was resorted to.

57. The areas open and closed to grazing were :—

	Square miles.	Percentage.
Closed to all animals for the whole year ...	968	7.5
Closed to all animals for part of the year ...	92	0.7
Open to all animals for the whole year ...	4,499	34.9
Open to all animals except browsers for the whole year	7,068	54.9
Open to all animals except browsers for part of the year	241	2.0
Total ...	12,868*	100.0

*Excluding two square miles submerged in Bhandardara lake.

58. The area open to grazing by horned cattle throughout the year was 11,567 square miles or 89·8 per cent.

59. The total number of animals admitted to graze was 22,27,073 against 20,60,107 of the previous year. The figures are, however, hypothetical as the cattle admitted to graze in the forests could not be correctly recorded in the Kolaba and Satara Divisions of the Central Circle, as it is understood that no passes have been issued by the Talatis in some cases. Of the cattle admitted, 18,61,362 were horned cattle, 1,03,061 were 'sheep' and goats, and 59,650 others.

60. The increase in the number of cattle has occurred mainly in the North Eastern and Central Circles.

61. *IV. Other offences.*—There was an increase of 205 cases under the head. The North Eastern and the Southern Circles are responsible for the increase, the increase in each of these being 303 and 10 respectively. In the North Western Circle the cases decreased by 96 and in the Central Circle by 12.

62. During the year 124 new cases were taken to court. Out of the 561 total cases (124 new and 437 old) 221 cases were decided by the court—211 in favour of and 10 against the Department. The percentage of successful cases was 95·5. 22,893 cases were disposed of under section 68 of the Indian Forest Act of which 363 cases were let off with warnings. The amount of compensation recovered during the year was Rs. 2,25,852 or Rs. 10·02 per case against Rs. 7·9 per case in the preceding year.

(b) Protection against injuries from natural causes.

63. *Vegetable Pests.*—Creepers, climbers and bamboos were cut as usual by subordinates or through contractors and through paid labour.

64. *Lorenthus* has been a pest in most of the plantations in Kanara and Belgaum. The usual method of cutting off the affected branches and burning them was adhered to. Small experimental plots of an acre each were laid down in the heavily affected teak plantations in W. D. Kanara to watch the results of the experimental cutting and burning of the affected branches.

65. *Prickly-pear* which had made its appearance in some places of Dharwar-Bijapur has not caused mentionable damage.

66. The growth of *lantana* continued to increase in the forests of all the Divisions in the Central Circle. It is assuming serious proportions in the Belgaum Forest Division in the Sandalwood and teak plantations. In the Satara Division the experiment in connection with the eradication of *lantana* by the use of chemicals, such as Sodium Fluoride, Sodium silico Fluoride and Costic Soda was continued by

spraying the solution in four plots selected at (1) Kodoli, (2) Dare Khurd, (3) Gavadi and (4) Chinchani. The experiment was, however, reported to be not successful. In Poona Division lantana was sold on permits.

67. *Animal Pest.*—Elephant, bison, monkeys, cheetal, barking deer wild pigs, porcupines, rats and hare caused damage as usual to the plantations in almost all Divisions in Kanara and Belgaum. The 1947 plantations in the Virnoli Range in N. D. Kanara, were seriously damaged by bison. In W. D. Kanara a reward of Rs. 45 was paid for killing eight porcupines in Ankola and one in Ramangali Range plantations.

68. *Insect Pest.*—A bark-eating insect was found damaging the teak plants in Amgaon 1936 plantation as also in the Sample plot in Kulgi Range.

Some damage by defoliators to teak plants was noticed on the Nagzari slopes. Defoliators of teak was early and heavy in W. D. Kanara. So also the damage caused by Ravlook Cricket (*Brachytrypes achatinus*) was extensive in the Casuarina plantations and nurseries in Karwar and Honavar Ranges. Investigations regarding this pest are being done by the Entomologist, Dehra Dun, whose party is camping in Karwar since December 1947. Defoliators also made their appearance in Kolaba and Thana Divisions and in Point, Harsul and Barhe Ranges of West Nasik Division. In Kolaba the attack was short-lived.

69. Defoliation of teak trees by caterpillars is common in the Belgaum Division with the appearance of new leaves soon after the monsoon, but no serious damage was noticed to any of the forest growth this year.

70. *Frost and Erosion.*—There was no damage by frost or cyclone during the year under report.

71. Extensive anti-erosion measures are contemplated to be undertaken in all the eroded forest areas in the Province. Post-war Reconstruction Scheme 57 provides for the improvement and afforestation of such areas and a start has already been made in this connection. Other measures such as discontinuance of the exploitation of coupes with sparse tree growth or of the forests on steep slopes, etc., were also introduced to prevent soil erosion.

72. The casuarina Reserved Forest in the Kolaba Division continued to be eroded by the sea. Experimental planting of the coastal area with Rui, Ketki and Agava (*Calotropis*, *Gigantea*, *Pandanus fascicularis*) was tried to reclaim such areas. Sea creepers were also introduced. The result was successful at Nagaon and Revadanda as the land is substantially stabilised and silting up of the frontal area has started.

CHAPTER III

Silviculture

(1) SYSTEM OF MANAGEMENT.

73. The area in charge of the Forest Department aggregates 10,717 square miles of which 7,399 square miles or 69.00 per cent. are organized under various silvicultural systems as detailed below :—

Silvicultural system.	Area square miles.	Percentage.
1	2	3
1. Clearfelling	3,071	28.7
2. Improvement felling	386	3.6
3. Coppice with standards	1,294	12.1
4. Improvement cum felling	54	0.5
5. Selection cum Improvement	551	5.1
6. Selection	399	3.7
7. Uniform	331	3.1
8. Simple coppice	299	2.8
9. Others	1,014	9.4
Total under silvicultural system	7,399	69.0
Unorganized	3,318	31.0
Total	10,717	100.0

(2) GENERAL PROGRESS OF REGENERATION AND AFFORESTATION.

A. *Mainly Natural.*

74. The total area under natural regeneration both concentrated and not concentrated was 84,734 acres, of which 50,967 acres were under concentrated natural regeneration.

75. (i) *Concentrated.*—Natural regeneration was supplemented by artificial regeneration by planting teak stumps and dibbling seed of Ah, Khair, Haldu, Kalam, Sandal etc. In Haliyal Teak Pole forests about 2 acres were planted with teak stumps and seedlings along with other junglewood species. Sandalwood seed was also dibbled in burnt rabs. Similarly planting of teak and junglewoods was done in patches about 8 acres in Mundgood Teak Pole area and in 87 acres of Karwar Fuel Reserves, and 488 acres of the Ankola-Kumta-Honavar-Bhatkal Below ghat Inland Forests. Casuarina seedlings were put in about 6 acres and softwoods were introduced in about 109 acres in all the ranges in E. D. Kanara. In the Dharwar-Bijapur Division sandalwood was sown with *Cassia siamia* and other host plants in 11 acres while seed of Anjan, Tugli etc. was planted in 'rabs' and pits in an area of 59 acres.

76. In Block VII/14 in the Nagargali Range of the Belgaum Division an area of 4 acres and 20 gunthas was planted with Mahogany and 1 acre and 20 gunthas with Eucalyptus. The number of survivals of the former was 800 and of the latter 150. Teak regeneration was carried out in an area of 8 acres in 16 patches in the fuel coupe II-59 and IV-A/56 in Khanapur Range of the Belgaum Division. Out of 8886 stumps planted, 8764 are surviving. All the plants are vigorous and healthy with a height growth of 3' to 3½'.

77. (ii) *Not concentrated*.—Natural regeneration from coppice and self sown seedlings were satisfactory throughout.

B. Mainly artificial.

78. The area artificially regenerated during the year was 3,557 acres including 372 acres of newly afforested area. The area of plantations formed was as follows:—

Circle.	Division.	Locality.	Area artificially regenerated in acres.		Species planted.
1	2	3	4	5	
			A.	g.	
North Western.			1533	0	Teak and 7 to 10 percent injaili. A in, K h a i r, Babul, B i b i, Shisam, Sawar, Mhowra etc.
North Eastern.	East Nasik		403	22½	Teak & injaili.
	West Nasik.		130	30½	Do.
	East Khandesh		23	29	Do.
	West Khandesh		40	0	Do.
Central.	Poona.		20	33	
	Kolaba.	Coupes 4 and 5.	9	4	Casuarina.
Southern.	N. D. Kanara.	Bhagwati High Forest Old series I to VII. Gund Working Plan.	80	0	Teak 12' x 12'
			227	0	Do. 9' x 9' and 6' x 6'
			45	0	Do. 9' x 9'
	E. D. Kanara.	Yellapur-Mundgod Teak High Forest.	377	0	Do. 9 x 9'
		Nersol slopes Working Plan.	40	0	Do. 9' x 9'
	W. D. Kanara.	Ramanguli-Ankola High Forest Working Plan.	156	0	Do. 9' x 9'
		Kalinadi slopes.	19	0	Do. 9' x 9'
		Felling Series I, II & III.	64	0	Casuarina 12' x 12'
		Teak and injaili:—	3,185	34½	
		Casuarina:—	73	4	
		Grand total:—	3,258	38½	

79. Softwoods were introduced in an area of 3 acres at 9' x 9' in the Kalinadi slopes working plan in the Southern Circle.

80. Two varieties of Acacia seeds of Australian origin were tried in Block IV-a/56, with the result that against 663 seeds planted only 49 seedlings were surviving.

81. The area of 130 acres in Gujnal Range selected for rehabilitation purposes was sown with different junglewood species. The results were however very poor. In the Main working Circle in Poona Division, 'rabs' and 'rab' strips along contours were regenerated over a total area of 7 acres with stumps and seeds of teak and injaili with good results. The question of taking over the sea-coast areas for afforestation with casuarina seedlings has not yet reached the final conclusion. Softwood plantations were tried again in Pen Range but the germination of the seed was not good, except that of Sawar, which however was flourishing.

82. In North Thana Division attempts were made to replace the severely damaged casuarina trees damaged in the 1940 cyclone by regenerating the areas. Blanks formed by the extraction of original casuarina trees were also filled in and planted with casuarina seed.

83. The following areas were also planted under Agri-silvi system :—

			Acre	g.
North Western Circle	...	...	1,477	0
North Eastern Circle	...	...	6,042	0
Central Circle	...	...	5,416	0
Southern Circle	...	...	406	0
			<hr/>	
		Total	13,341	0
			<hr/>	

84. The total cost on plantations and reproduction during the year was Rs. 2,83,628.

C. Afforestation.

85. The afforestation schemes for denuded areas in Sangola and Pard talukas in Sholapur and Surat districts etc. were proceeded with. The works fall under Post-war Reconstruction Scheme 57 and have therefore been described in Chapter VIII of this Report.

86. No extension of the afforestation work on Gradoni system was carried out during the year in connection with the works commenced in the Poona and Satara Divisions in 1939. The works already carried out were however maintained. The plot at Kopar in the Kolaba Division continued to be well looked after. The height growth of the seedlings is markedly less due to poor quality of the soil.

87. The afforestation work in Hireholdhur S. Nos. 41, 42, 50 and 54 in Bagalkot Range was continued. Junglewood species such

as Neem, Hulgai, Tugli etc. were sown but the soil being too rocky the regeneration work has not come up to the mark. All the work was done by the local forest staff.

88. Two plots of 25 acres started in Badami and Bagalkot Ranges for rehabilitating denuded areas by contour trenching and bunding have now 10 to 15 feet high jinglewood trees.

89. Afforestation of Yettingudda hill near the Agricultural College, Dharwar, was undertaken in 65 acres in May 1947. In consultation with the Principal, Agricultural College, Dharwar, fast growing ornamental trees like Gul-mohor, Pithacolum, Cassia, Pongamia and Cashew were grown along contour trenches, while good variety Mango, Guava, Chikoo grafts and budded plants were tried in pits on the lower flats. The grafts have responded well. The total area was fenced. On either side of the hill jack avenue has been provided at a spacing of 40' x 40' all through. Some valuable species like teak, sissum, dindal, and casuarina were introduced as a trial. A number of these trees seem to have well established.

(3) TENDING OF THE GROWING STOCK IN AREAS NOT UNDER CONCENTRATED REGENERATION.

90. Cultural operations such as weeding, mulching, cleaning, cutting of climbers and thinnings were generally carried out in accordance with the prescriptions of the Working Plans, by forest subordinates where practicable and by paid labour in other places. Special cultural operations on an intensive scale were carried out in the old plantations of the Kanara Northern Division and the Kanara Eastern Division and in five coupes in Nawapur Range in North Eastern Circle.

91. Thinnings were carried out in all plantations due. Some of the thinnings brought substantial amount of revenue to the Department. For instance in the Southern Circle some thinning coupes were sold standing for Rs. 21,714. In others thinning was done departmentally at a cost of Rs. 32,612 while the revenue realised from the sale of stems was Rs. 39,092. A good many poles remained unsold at the end of the year. In East Khandesh Division thinning operations were carried out in 18 coupes in Chopda and Yawal Ranges at a cost of Rs. 781 the resulting material being sold for Rs. 2578. Similarly in Nagargali Range of the Belgaum Division in the Central Circle, departmental thinnings were carried out in S. XIX/23 and 15 and also in 12 coupes of teak pole blocks of the same range at the total cost of Rs. 732. A part of the resultant material was disposed of for Rs. 1217. The remaining material is yet to be sold. The cost of thinnings in the 26 coupes of the Main Working Circle in Poona Division was Rs. 1728 while the material was sold for Rs. 16,646. Likewise in coupes 6 and 13 of the fuel working circle of the Division the first and second thinnings were carried out at a cost of Rs. 570 and the revenue realized

from the material was Rs. 7,234. Rs. 1,186 were spent on 'watpad' operations in Babul areas which brought in a revenue of Rs. 13,625. In Satara Division thinnings in 10 coupes were sold standing for Rs. 10,647.

92. The total cost on cultural and tending operations etc., was Rs. 69,364.

93. The four plots granted in Sirsi-Siddapur Range have now good fruit trees in them. In addition to 37 acres granted to 27 persons in the coastal ranges of W. D. Kanara, 31 acres of land was granted to 13 persons during the year for growing fruit trees. Two areas to the extent of 32½ acres were also given out in the Khanapur Range of the Belgaum Division for planting fruit trees. Seeds and seedlings of various species were supplied to the public who showed interest or requested for the same with necessary advice in respect of planting operations.

CHAPTER IV.

Exploitation

(1) SYSTEM OF MANAGEMENT.

94. The various systems of management and the areas under each are given in Chapter III under the caption "System of management."

(i) Major Forest Produce.

95. *Timber, fuel and sandalwood.*—In all the Circles, except the Southern Circle, timber and firewood were extracted mostly through the agency of the contractors. Bombax was however extracted departmentally in North and West Thana, West Nasik Divisions and West Bhandesh Sub-Division and supplied to WIMCO. In the Central Circle also sawar was extracted departmentally for supply to (1) WIMCO, (2) New Era Match Company, and (3) Thana Match Works. Teak, aldu and Kalam logs were pre-empted in the Kolaba and Belgaum Divisions.

96. Departmental extraction of firewood and charcoal for supply to the military as well as to the civil population respectively was undertaken during the year in West Nasik Division. Departmental production of charcoal was carried out in 4 coupes of the Belgaum Division to meet civil demands from the Railway Grain Shop and the supply to places like Poona, Satara, Sholapur etc., and also for the military requirements.

97. In the Southern Circle timber from high forest areas was brought to depots through the agency of contractors to meet demands of the Railways, Public Works Department and other Government Departments. Sale to the public being restricted mostly to junglewoods. Pole coupes were sold standing with the condition of delivering firewood and kiln sites for manufacture into charcoal departmentally on rate basis.

Later on the idea of charcoal manufacture was dropped owing to the decontrol of firewood and charcoal and the firewood brought to kiln sites was sold to the coupe purchasers on royalty basis.

Most of the rejected wood compartments sold last year in Northern Division Kanara were worked during the year. Most of the coupes of the Bijapur Scrub Forests, normally due for exploitation during the year, being poor in vegetation, some advance coupes and pasture areas were worked to meet the demand for firewood in the District. For matchwoods some of the areas outside the prescriptions of the sanctioned Working Plans were tapped in all the Divisions. It is since ruled that tapping of matchwoods should be restricted to trees 72" girth and over. In Kanara Khair (*Acacia catechu*) trees in malki lands have been declared as reserved trees with a view to encourage the Kath industry and to make such trees available for the industry. Matchwoods were also extracted from localities outside the areas due under the Working Plans.

98. Part of the unorganized forests of Supa Range in Belgaum Division was worked for the production of junglewood sleepers for the Railways.

99. During the year some of the coupes were given to co-operative Societies for working at upset prices. In the Central Circle 9 coupes were so worked by the Co-operative Societies—7 in Kolaba Division and 1 each in Satara and Belgaum Divisions—while in the North Eastern Circle 2 coupes in the East Nasik Division were sold to Co-operative Societies. Likewise three coupes—2 in East Nasik and 1 in West Nasik—were given to the Dang Sewa Mandal, Satana for working on Co-operative basis.

100. Pre-emption of teak, haldu and kalam was done in the North Western Circle, North Eastern Circle and Central Circle to meet the increased demand for timber by the Housing Commissioner, for Railway and other departments as also for Textile requirements.

In all 2967 tons teak logs (36" and up in girth and 6' and up length) and 1837 tons haldu and kalam logs (30" and up girth and over 3' length) were pre-empted as follows :—

	Teak Tons.	Haldu and Kalam tons.
North Western Circle	1,848	1,707
North Eastern Circle	949	91
Central Circle	170	39
	<hr/> 2,967	<hr/> 1,837

101. According to the allocation made by the Textile Commissioner Bombay, 2,033 tons haldu and kalam were supplied for bobbin manufacture at schedule rates.

During the year, 3,021 tons teak logs and 2,642 tons hardwoods logs were supplied to Railways. The Housing Commissioner, Bombay, placed indents for 2,730 tons sawn teak and 400 tons teak logs of which a quantity of 761 tons sawn and 13 tons logs was supplied to the end of the year.

102. A supply of 82,903 sleepers in teak, matti and kindal was undertaken. Also a supply of 7,500 sleepers in hardwoods other than matti and kindal was undertaken. Against the latter 3,000 M. G. sleepers of Karnal (*Dillenia pentagyna*) and Nana (*Lagerstroemia lanceolata*) have to be supplied treated with creosote and fuel oil. In all 57,757 untreated sleepers, both teak and hardwoods, were supplied during the year.

103. A quantity of 2,672 tons of unserviceable timber taken over by the Department for disposal on behalf of the Central Government without making any charge, 2,285 tons were disposed of by auction for Rs. 2,69,817. The remaining quantity of 387 tons could not be disposed of on account of low offers received.

104. To meet the urgent civil requirements of charcoal in Nasik City and Deolali etc., some special areas in Peint Mahal of the West Nasik Division with good injaili growth were sold on condition of producing charcoal and selling at prescribed rate and at specified depots. In addition departmental production of charcoal was also undertaken in the Division.

The quantities of charcoal departmentally produced, were sold by open auction on a rate per ton of 100 cft. treating every range as unit. The total quantity of charcoal produced was 1366.18 tons for which a value of Rs. 1,09,559 was realized against an expenditure of Rs. 52,012 leaving a surplus of about Rs. 42 per ton.

105. Due to decontrol the contractors in the Satara Division were allowed to dispose of their firewood which according to the contract conditions they were required to deliver at specified depots. Contractors were also given the option to purchase charcoal prepared departmentally in Patan Range for civil supply purposes on payment of a royalty of Rs. 10 per ton. In Kolaba and Poona the contract terms relating to production and sale of the material were not enforced. In Belgaum however both firewood and charcoal under pre-emption was accepted and retained by the department for further disposal.

106. Sandalwood was extracted departmentally to the sale depots at Dharwar, Belgaum and Khanapur in the Kanara Northern, Eastern, Dharwar-Bijapur and Belgaum Divisions for final disposal.

(ii) *Minor Forest Produce.*

107. Minor Forest Produce was farmed out, on permits or disposed of by sale as usual. Mowra flowers were collected by the Excise Department. Tad palm leaves in West Thana Division were allowed to

be taken by the villagers free according to the Government orders. So also the right to collect Harda in the forests of Rajur Range of the West Nasik Division was sold to the village *panchayat*.

108. The 27 military kurans in Poona Division leased to the military in 1946-47 measuring 4579 acres, were relinquished by the military Grass Farms Department. The area left with the military was therefore only 3484 acres.

109. The concession of free distribution of tali-palms (*Corypha umbraulifera*) to deserving people in certain coastal talukas of Kanara was continued. Cane was also allowed free for domestic use and for cottage industries in the Southern Circle.

110. Grass and grazing fetched Rs. 3,05,988 for the Department, as against Rs. 3,16,077 in the previous year.

(2) AGENCY OF EXPLOITATION.

(i) Departmental Agency.

111. The following is a comparative statement of major and minor Forest Produce extracted departmentally during the years 1947-48 and 1946-47 :--

Circle.	Year.	Major Forest Produce.			
		Timber in cft. in thousands.	Fuel in cft. in thousands.	Total cft. in thousands.	Sand- wood value Rs.
1	2	3	4	5	6
North Western Circle. }	1947-48	273	179	452	...
	1946-47	206	344	550	...
North Eastern Circle. }	1947-48	20	477	497	195
	1946-47	142	586	728	1,379
Central Circle. }	1947-48	131	2,924	3,055	80,368
	1946-47	353	3,813	4,166	85,184
Southern Circle. }	1947-48	1,307	679	1,986	2,34,416
	1946-47	2,522	1,938	4,450	5,92,522
Research and Work- ing Plan Circle. }	1947-48	.....	.....	.....	.....
	1946-47	.....	.....	.....	.....
Total B. P.	1947-48	1,731	4,259	5,990	3,14,862
	1946-47	3,223	6,671	9,894	6,79,007
Difference.		-1,492	-2,412	-3,904	-3,64,245
Percentage of Departmental to Total outturn.		19.1	9.3	10.9	109.1

Circle.	Year.	Minor Forest Produce.				Remark.
		Bam- boos values	Grass and grazing value	Other forest produce value	Total value	
		Rs.	Rs.	Rs.	Rs.	
1	2	7	8	9	10	11
North Western Circle. ... } Circle. ... }	1947-48	.....	...	64	64	*Estimated value of the material extra- cted and not the sale proceeds of the material disposed of during the year.
	1946-47	4	...	...	4	
North Eastern Circle. } Circle. }	1947-48	125	.....	222	347	
	1946-47	62	...	6,040	6,102	
Central Circle. } Circle. }	1947-48	.....	.....	247	247	
	1946-47	.....	.....	430	430	
Southern Circle. } Circle. }	1947-48	3	.....	80	83	
	1946-47	4	.....	50	64	
Research and Working Plan Circle. } Circle. }	1947-48	.....	.....	592	592	
	1946-47	.....	.....	.....	.....
Total B. P. } B. P. }	1947-48	128	.....	1,205	1,333	
	1946-47	70	.....	6,520	6,590	
Difference	...	+58	.....	-5,315	-5,257	

Percentage of
Departmental
to total pro-
duction.

112. The decrease under timber is due to stoppage of advance work-
ings as were undertaken during the war period and resorting to normal
workings. In North Western Circle, however, there was some increase
due to the working of more thinning coupes which had remained unsold
in the past. The same reasons apply to fuel, except for the Central
Circle, where the figure of the year shows an increase due to large
quantities of firewood and charcoal pre-empted in the Belgaum Division.
Owing to lesser quantity of sandalwood extracted—in Southern Circle
particularly of classes I to XIV—and to the fall in the prices by about
50 per cent. the value of sandalwood has gone down.

113. Departmental extraction of bamboos depends on special circumstances necessitating the Department to undertake such extractions. The revenue on bamboos realized in the North Eastern Circle represents the value of the bamboo sticks supplied to the District Superintendent of Police, Nasik, from the West Nasik Division.

114. The value of other Forest Produce depends on the amount of such produce actually extracted departmentally. In North Eastern Circle, Karanj fruits were not extracted departmentally this year and supply of tent pins from small branch wood was not made to the Military as in the previous year.

(a) *Timber Depots.*

115. The following table compares average prices obtained for timber during 1947-48 and 1946-47 at Dandeli, which is the principal timber depot in the Province.

Kind of timber.	Average rate.	
	1947-48	1946-47
1	2	3
	Rs.	Rs.
<i>Logs.</i>	<i>Per khandy of 12.50 cft.</i>	
Teak. (<i>Tactona grandis</i>)	Not sold	150 8 0
Sissum (<i>Dalbergia latifolia</i>)	Do.	69 1 7
Matti (<i>Terminalia tomentosa</i>)	30 10 2	53 3 4
Nama (<i>Lagerstroemia lanceolata</i>)	32 0 2	58 11 9
Homa (<i>Pterocarpus marsupium</i>)	34 7 9	53 4 13
Other Junglwoods.	23 0 0	46 11 0
<i>Sawn Timber</i>	<i>Rate per cft.</i>	
Teak planks	Not sold	16 1 0
Teak scantlings.	Do.	10 8 0
Teak Battens.	Do.	7 15 0
Sissum Planks	3 4 4	15 7 0
Sissum scantlings	Not sold	9 6 0
Sissum battens.	6 8 1	8 12 0
Jungl wood planks	8 10 7	6 6 0
Junglwood scantlings.	4 8 10	5 10 0
Junglwood battens.	3 3 11	3 12 0
Teak rejected sleepers M. G. each.	9 3 6	8 15 0

116. No teak—either log or sawnwood—was sold from the depot in December 1947. A small quantity of teak logs sold in Almavar depot fetched Rs. 114-3-5 per khandy as against Rs. 102-10-4 in the preceding year. Due to (i) non-availability of railway wagons and (ii) acute shortage

of petrol, large quantities of timber stocks have been lying undisposed of with the timber merchants. This has directly affected the timber prices which showed a downward trend during the year.

117. The temporary depot at Divgi has since been closed.

(b) *Firewood.*

118. All the 6 firewood depots in Kanara Western Division were run through the contractors, the selling rates fixed per maund of 82.28 lbs. being Rs. 0-7-0 per Karwar and Rs. 0-8-0 for Gokarn and Gangavali and Rs. 0-7-6 for Kumta, Honavar and Bhatkal depots.

Various departmental rail and roadside depots opened in the previous years for stacking firewood continued during the year. At the close of the year firewood in all the depots, except at Alnawar, was sold by auction. The Bombay Firewood and Charcoal Trade Licensing Order, 1944, remained in force during the year, the ceiling rates fixed in 1945-46 being continued.

119. Firewood and charcoal were supplied departmentally to the Government depots at Mahabaleshwar and Panchagani in Satara Division, which were run through the contractors. The contracts at these depots were given out for the period of one year from 1-1-1948 to 31-12-1948. The total sale of firewood and charcoal at these depots during the year was as follows :—

				Firewood	Charcoal
				Cft.	T. M. lbs.
Malcompeth	...	...	...	43,200	65—24— 4
Panchgani	...	...	...	93,600	205—25— 3

120. In the Matheran depot which was worked departmentally 7,720 maunds of firewood was sold off in the year resulting in a net profit of Rs. 5,904 to Department. The revenue realized was Rs. 15,612 and the expenditure was Rs. 9,708.

121. The firewood depot at Gokak was started in 1944, mainly to supply firewood to the inhabitants of Gokak in order to put a stop to the illicit traffic in firewood. The concern resulted in a loss to Government. During the year it was run by the Department from 1-4-1947 to 7-7-1947 as no contractor was forthcoming to undertake the contract. During this period 225 tons and 60 lbs. were sold at this depot at the sanctioned rate of Rs. 0-6-0 per maund of 28 lbs. The net result was a loss of Rs. 884. From 18-7-1947 to 31-3-1948 the depot was run through a contractor. The firewood sold by him was 199 tons, 1 quarter, with a net loss of Rs. 2,784 during the period.

122. The firewood depot at Castle Rock in the Belgaum Division was also run departmentally. 3,579 maunds of firewood was sold during the year. This depot also brought in a net loss of Rs. 1,501 to the Department. The original rate of sale, which was Rs. 0-9-0 per maund was raised to Rs. 0-14-0 per maund to avoid any further loss.

(c) PURCHASERS.

123. The following table compares the outturn of major and minor forest produce removed by consumers and purchasers during the years 1947-48 and 1946-47 :—

Circle	Year	Major Forest Produce			
		Timber		Fuel.	
		Cubic feet in thousands.	Value Rs.	Cubic feet in thousands.	Value Rs.
1	2	3	4	5	6
North Western Circle	1947-48	1,921	81,92,383	10,270	17,889
	1946-47	2,643	96,67,513	11,136	16,743
North Eastern Circle	1947-48	3,265	20,83,266	3,983	3,11,711
	1946-47	1,474	20,84,848	5,467	2,77,870
Central Circle	1947-48	701	13,64,757	5,961	5,92,756
	1946-47	485	12,56,294	3,649	2,96,406
Southern Circle	1947-48	1,271	9,21,699	5,201	6,29,121
	1946-47	910	4,25,551	1,945	4,61,394
Total	1947-48	7,158	125,62,105	25,415	15,51,479
	1946-47	5,512	134,34,206	22,197	10,52,407
Difference between 1947-48 and 1946-47		+1,646	-8,72,101	+3,218	+4,99,072

Circle	Year	Minor Forest Produce				Remarks.
		Bamboos value Rs.	Grass & grazing value Rs.	Other produce Value Rs.	Total value Rs.	
		7	8	9	10	
North Western Circle	1947-48	27,415	30,107	49,598	1,07,120	
	1946-47	57,117	27,218	47,681	1,32,016	
North Eastern Circle	1947-48	31,392	2,17,344	1,02,809	3,51,545	
	1946-47	36,656	2,27,255	1,32,917	3,96,828	
Central Circle	1947-48	31,394	58,363	76,291	1,66,048	
	1946-47	28,116	61,219	54,032	1,43,367	
Southern Circle	1947-48	94,817	174	75,195	1,70,186	
	1946-47	94,366	386	61,345	1,56,097	
Total	1947-48	1,85,018	3,05,988	3,03,893	7,94,899	
	1946-47	2,16,255	3,16,078	2,95,975	8,28,308	
Difference between 1947-48 & 1946-47		-31,237	-10,090	+7,918	-33,409	

124. There was increase in the production of timber in all the Circles except the North Western Circle. In North Western Circle the decrease was due to withholding the sale of malki teak coupes. The

increase in the other Circles is accounted for by the sale of a greater number of coupes, which included sale of some of the arrear coupes left unsold in previous years. The increase in the production of firewood is attributed to the same reasons. In the North Eastern Circle the figures of timber and fuel taken together show an increase over the figures of the previous year.

125. The value of bamboos represents the fees realized by the department on bamboo permits. In Southern Circle and Central Circle more bamboos were removed on permits which accounts for the increase in the revenue under the head. In the other two circles the number of bamboos removed were less than in the previous year.

126. The increase in the revenue under grass and grazing in the North Western Circle was shared by the North Thana Division and the Surat Sub-Division. In Surat Sub-Division grass from the areas under afforestation scheme 57 was sold by auction in addition to the annual grass sales from the closed coupes. The decrease in the grass revenue in other Circles was due to less demand for grass in the North Eastern Circle, and with-holding of Goliskop kuran from sale of grass. In the Central Circle the kurans were sold locally on average price basis.

127. Better prices realized for the Minor Forest Produce farms and recovery of royalty for manganese ore in the Southern Circle account for the increase under "Other Produce".

(4) RIGHTS, PRIVILEGES AND FREE GRANTS.

128. The following table compares the quantity and value of forest produce removed by right and privilege holders and free grantees during the years 1947-48 and 1946-47 :--

Circle.	C=Concessionists.	Major Forest Produce.			
		Timber.		Fuel.	
		F=Free grantees.	Cft. in Thousands.	Value Rs.	Cft. in Thousands.	Value Rs.
1	2	3	4	5	6
North Western Circle.	{ C	..	..	4,926	1,04,920
	{ F	21	65,566	..	..
North Eastern Circle.	{ C	..	..	6,595	1,56,043
	{ F	7	2,969	..	..
Central Circle.	{ C	13	23,394	2,341	73,884
	{ F	8	11,000	..	..
Southern Circle.	{ C	54	11,322	2,183	21,094
	{ F	54	14,254	..	..
Total for 1947-48	{ C	67	34,716	16,045	3,55,941
	{ F	90	93,789	..	..
Total for 1946-47.	{ C	134	29,687	34,059	6,73,430
	{ F	53	29,387	3	297

Circle.	C=Concessionists. F=Free grantees.	Minor Forest Produce.			
		Bamboos value	Grass & grazing value	Other produce value	Total value
		Rs.	Rs.	Rs.	Rs.
1	2	7	8	9	10
North Western Circle.	{ C	70,187	6,07,035	79,040	7,56,262
	{ F	831	..	..	831
North Eastern Circle.	{ C	..	5,87,493	83,917	6,71,410
	{ F	312	..	4,378	4,690
Central Circle.	{ C	831	4,29,851	63,381	4,94,063
	{ F	42	421	3,094	3,557
Southern Circle.	{ C	4,235	3,55,741	18,699	3,78,675
	{ F	222	22	2,212	2,456
Total for 1947-48.	{ C	75,253	19,80,120	2,45,037	23,00,410
	{ F	1,407	443	9,684	11,534
Total for 1946-47.	{ C	11,738	23,17,681	2,37,484	25,66,903
	{ F	1,284	459	25,657	27,400

129. The quantity of forest produce removed by concessionists and free grantees depends on their needs and the durability of the material removed. In the Southern Circle lesser quantity of firewood was removed by the privilege holders for the manufacture of jaggary. The decrease in the value of grazing is mainly due to calculation of the value of grazing of sheep and goats at 4 annas per head instead of at Re. 1 per head as in the past.

130. There are no rights other than those of way. Privileges allowed under re-settlements and other rules and orders were freely enjoyed by the public as usual.

131. Free grants of timber and other forest produce were made for reconstruction of houses damaged by fire and for repairs to buildings. The free grants sanctioned during the year to the sufferers of the communal disturbances in the Kolaba District alone amounted to Rs. 60,256, which the free-grantees availed of only to the extent of Rs. 7,373. The extra staff engaged specially for the purpose of making these free grants was discontinued after completion of the work.

132. The increase under other produce is due to some extent to the greater quantity of minerals removed by the Public Works Department for road works.

(5) *Outturn and Sources of Forest Produce.*

133. The following table compares the outturn from all sources of forest produce for the years 1947-48 and 1946-47:—

Circle.	Year.	Major Forest Produce.		
		Timber cft. in thousands.	Fuel cft. in thousands.	Sandalwood value Rs.
1	2	3	4	5
North Western Circle	1947-48	2,215	15,375	.....
	1946-47	2,877	20,215	.....
North Eastern Circle	1947-48	3,292	11,055	108
	1946-47	1,623	23,015	1,390
Central Circle	1947-48	853	11,226	80,360
	1946-47	897	11,258	85,184
Southern Circle	1947-48	2,686	8,063	2,34,414
	1946-47	3,549	8,442	5,92,522
Research and Working Plans C.	1947-48	.....	.....	.....
	1946-47	.....	.....	.....
Total	1947-48	9,046	45,719	3,14,882
	1946-47	8,946	62,939	6,79,096
Difference between 1947-48 and 1946-47		+100	-17,211	-3,64,214

Circle.	Year.	Minor Forest Produce.		
		Bamboos value Rs.	Grass and grazing value Rs.	Other pro- duce value Rs.
1	2	6	7	8
North Western Circle	1947-48	98,433	6,37,142	1,28,702
	1946-47	1,27,626	6,34,253	1,26,721
North Eastern Circle	1947-48	31,829	8,04,837	1,91,326
	1946-47	36,869	10,79,445	2,31,522
Central Circle	1947-48	32,267	4,88,635	1,43,013
	1946-47	29,182	5,19,979	1,32,104
Southern Circle	1947-48	99,277	3,55,937	96,186
	1946-47	98,670	4,00,541	75,289
Research and Working Plans C.	1947-48	.....	.....	592
	1946-47	.....	.....	.....
Total	1947-48	2,61,806	22,86,551	5,59,819
	1946-47	2,92,347	26,34,218	5,65,636
Difference between 1947-48 and 1946-47		-30,541	-3,47,667	-5,817

(6) FOREST LABOUR AND WAGES.

134. The annual forest operations such as exploitation of forests, construction of buildings, roads, etc. provide employment for a considerable number of people. The following table gives an estimate of the labour employed on forest works and remuneration paid to them during the year. For comparison the rates for 1946-47 and the prewar rates for 1938-39 are given :—

Circle.	Agency of employment.	No. of labour units.	Aggregate amount earned. Rs.	Remarks.
North Western Circle.	Departmental ...	1,63,691	1,88,974	
	Contractors ...	24,11,142	45,28,952	
North Eastern Circle	Departmental ...	99,933	1,11,297	
	Contractors ...	8,34,138	10,30,839	
Central Circle.	Departmental ...	82,580	99,195	
	Contractors ...	19,04,222	22,95,548	
Southern Circle	Departmental ...	2,50,082	3,21,511	
	Contractors ...	10,73,040	17,60,571	
Total for 1947-48.	Departmental ...	5,96,286	7,20,977	Rs. 1.21 a unit.
	Contractors ...	62,22,542	96,15,910	Rs. 1.54 a unit.
Total for 1946-47.	Departmental ...	9,22,841	9,94,915	Rs. 1.08 a unit.
	Contractors ...	63,27,883	96,58,040	Rs. 1.53 a unit.
Total for 1938-39.	Departmental ...	6,20,992	2,37,636	As. 6.04 a unit.
	Contractors ...	76,40,659	27,69,546	As. 5.8 a unit.

135. In the Southern Circle minimum wages have been fixed for each locality for departmental works.

136. The enforcement of the minimum wage conditions in respect of labour employed by the coupe contractors in the Thana, Kolaba and West Khandesh Districts and the Peint Mahal of the Nasik District were continued during the year. The inspecting officers of the Forest Department and the Special Officer for the protection of aboriginal and hill tribes and his assistants examined the account books of the contractors in the course of their tour, and made enquiries with the labourers about the wage rates paid to them.

137. The expenditure on the management of the State forests amounted to Rs. 54,41,320 as against Rs. 66,60,906 of the last year.

CHAPTER V.

(1) FOREST ENGINEERING BRANCH.

138. The Utilization Branch of the Research and Utilization Circle was transferred and added to the Forest Engineering Circle, and the Circle was redesignated as the "Utilization and Engineering Circle".

The Engineering Branch received many calls for plans and estimates for roads, culverts, bridges, buildings, wells etc. including those under Post War Reconstruction Schemes 55 and 56, but much of the work assigned to it under these schemes was left unattended to as sanction to the technical engineering staff proposed for the Circle was not received till the close of the year.

(2) MECHANICAL SKIDDING.

139. Timber was extracted from Block XI-A/19 with the Fordson Log Skidder from 12th December 1949. The output was 795.24 tons, the extraction costs, including the overhead charges, amounted to Rs. 30-7-7 per ton, with an average length of haul of 2070 feet, against Rs. 34-0-7 of the previous year. The decrease is due to accumulated difference of dearness allowance etc. in last year while during the year no such past arrears were paid.

(3) SAW MILLS.

140. A new Saw Mill and Wood Preservation Division was sanctioned by Government during the year and came into being with effect from 1st January 1948. The Division includes the full administrative charge of the Dandeli Sawmills including its mechanical upkeep, and works pertaining to wood preservation. This Division forms an independent accounting unit being fully responsible for the economic and efficient working of the sawmills.

141. The following table compares the output of 1947-48 and 1946-47 of the Government Sawmills at Dandeli and Londa.—

Description of outturn.	Year.	Dandeli Mills				Total outturn Cft.
		Robey Unit Cft.	Lancashire Unit Cft.	Londa Sawmill Cft.		
1	2	3	4	5	6	
Year M. G. Sleepers ..	1947-48	8,186	8,595	..	16,781	
Junewood M. G. Sleepers ..	Do.	1,734	88	..	1,822	
Year Sawn material ..	Do.	25,744	70,429	..	96,173	
Junewood Sawn material ..	Do.	5,601	21,096	37,675	64,462	
		41,355	1,00,208	37,675	1,79,238	
Year M. G. Sleepers ..	1946-47	17,509	34,284	..	51,793	
Year sawn material ..	Do.	53,863	85,135	381	1,39,379	
Junewood sawn material ..	Do.	161	7,125	66,880	74,166	
		71,533	1,26,544	67,261	2,65,338	
Difference between 1947-48 and 1946-47		-30,178	-26,336	-29,586	-86,100	

142. There is a drop in the Dandeli mill outturn by 56,514 cft. as compared to the previous years outturn. The reasons for the decrease are :—

- (i) Disposal of Fowler unit of the Dandeli mill which worked for only 8 months, during the year.
- (ii) Cutting of larger quantities of hardwoods into smaller sized material—resulting in greater wastage and lesser outturn as it takes more time to saw hardwoods than teak.

143. The decrease in the outturn of the Londa mill is due to the working of the mill only for a part of the year viz. for eight months upto 1st December 1947. The mill was permanently closed from that date as its working was found to be uneconomical resulting in loss to the Department.

144. *Private sawmills.*—Only three private sawmills operated during the year on Government work, two at Vincholi and Alnavar in Northern Division Kanara and one at Kirwatti in Eastern Division Kanara. The financial results of the mills are given below :—

Particulars.	Vincholi mill.	Kirwatti mill.	Alnavar mill.
(i) Teak M. G. Sleepers cft.	795	22,776	7,750
(ii) Teak sawn material cft.	655	22,116	25,555
(iii) Junglewood sawn material cft. ... ..	...	291	...
Total outturn cft.	1,450	45,183	33,305
(iv) Amount realized by sale of sawn material	12,051	2,93,827	2,88,970
(v) Expenditure to Government on raw material, establishment, sheds etc.	6,592	1,01,225	1,58,268
(vi) Sawing and handling charges	2,334	59,440	38,510
Total expenditure Rs.	8,926	1,60,665	1,96,778
Net profit	3,125	1,33,162	92,192

145. The services of these mills were utilized by the Department to supplement the sawn timber outturn and for the production of railway sleepers, which the Department had undertaken to supply to the Railways and other Departments and consumers.

146. The financial results of the Dandeli Sawmills are compared below :—

Item.	Dandeli Mills.		
	1947-48.	1946-47.	Difference.
	Rs.	Rs.	Rs.
Revenue ...	16,62,043	24,74,405	-8,12,362
Expenditure ...	14,91,561	16,46,479	-1,54,918
Nett profit ...	1,70,482	8,27,926	-6,57,444
Capital at charge ...	33,08,610	22,99,055	-10,09,555
Percentage of nett profit on capital ...	5.2	36.01	

147. The nett profit of the year was Rs. 1,70,482 against Rs. 8,27,926 of the previous year. The reasons for the lesser profits were :—

- (i) The stock of sawn material on 31st March 1947 was assessed at Rs. 8-1-2 per cft. which was the actual production cost, while the selling rate was Rs. 6-5-10 per cft.
- (ii) The average sale rate for sawn timber was Rs. 6-5-10 per cft. against Rs. 8-9-8 per cft. in the preceding year i. e. in 1946-47.
- (iii) The disposal of sawn timber was less by 40,215 cft. in 1947-48 than that in 1946-47, and
- (iv) Increase in the cost of production.

148. The financial result of the Londa Sawmill is compared below.

Item.	Londa Saw mill.		
	1947-48.	1946-47.	Difference.
Revenue ...	66,254	4,17,210	-3,50,956
Expenditure ...	1,55,987	4,61,887	-3,05,900
Nett profit (+) or loss (--) ...	(-) 89,733	(-) 44,677	-45,056
Capital at charge ...	2,45,790	2,52,891	-7,101
Percentage of nett profit (+) or loss (--) on capital.	-36.5	-17.6	

149. As the working of the Londa mill had been showing loss, the mill was closed down with the sanction of the Government with effect from 1st December 1947.

150. The total value of dead stock and stores supplied to the mills at Dandeli and Londa was as follows :—

Saw mill.	Value of dead stock.		Value of stores.	
	1947-48	1946-47	1947-48	1946-47
Dandeli ...	2,233	509	23,970	32,776
Londa ...	...	272	2,088	3,971
	2,233	781	26,058	36,747

(4) SEASONING KILN AT DANDELI.

151. The experimental seasoning kiln at Dandeli was transferred to the charge of the Utilization and Engineering Circle in July 1947 from N. D. Kanara. During the year a total quantity of 3628 cft. was seasoned. The average cost for seasoning per cft. came to Rs. 2-3-8 excluding overhead, depreciation and interest charges.

(5) WOOD PRESERVATION.

152. Experimental creosoting of electric transmission teak poles and M. G. sleepers of various junglewood species was carried out by the open tank hot dipping process. During the year the following timbers were treated with creosote and diesel oil mixture :—

Period.	Teak poles.	Junglewood sawn sleepers and material.
April to December 1947 ...	115	810 Nos. +140 cft.
January and February 1948 ...	...	134 Nos.
March 1948 ...	...	1110 Nos.

153. The average cost of creosoting per M. G. sleeper was Re. 0-10-0. It is designed to fabricate locally at Dandeli pressure cylinders for pressure creosoting of wood at Dandeli from old loco shells. This is likely to be finalised in 1948-49.

CHAPTER VI.

Financial Results.

154. The revenue and expenditure of the year compared with those of the past year and the average of the past quinquennium (1942-43 to 1946-47) are as follows :—

Circle.	Year.	Revenue.	Expenditure.		
			Conservancy and works.	Establishment.	Post-war Reconstruction and Development.
		Rs.	Rs.	Rs.	Rs.
North Western Circle.	1947-48	87,80,921	9,74,918	9,70,247	68,611
	1946-47	104,43,234	5,18,278	8,32,141	53,126
	Average ...	93,81,011	26,28,204	7,83,978	21,731
North Eastern Circle.	1947-48	30,96,131	2,11,721	7,83,624	8,840
	1946-47	33,27,220	2,54,309	7,35,789	6,596
	Average ...	25,99,491	5,54,919	5,67,532	1,319
Central Circle ...	1947-48	29,45,679	9,53,003	8,81,058	57,737
	1946-47	35,72,056	16,69,581	7,93,809	62,105
	Average ...	41,59,826	21,91,743	6,74,349	12,421
Southern Circle ...	1947-48	64,08,085	27,97,976	8,81,223	6,995
	1946-47	86,42,863	43,23,374	9,14,529	...
	Average ...	74,14,573	40,79,725	6,53,001	56,208
General Direction.	1947-48	11,656	33,584	3,71,709	32
	1946-47	12,992	35,268	2,50,794	...
	Average ...	3,232	34,042	1,87,985	...
Research and Working Plans.	1947-48	4,251	30,437	1,24,679	3,38,324
	1946-47	97	8,735	39,341	...
	Average*				
Utilization and Engineering.	1947-48	19,537	1,42,717	65,686	14,750
	1946-47	38,852	1,19,146	1,46,859	10,474
	Average*				
Additional Director of Civil Supplies.	1947-48	1,31,509	...	1,201	...
	1946-47	9,06,590	...	3,359	...
	Average(a)	4,53,295	...	2,620	...
Total. ...	1947-48	213,97,769	51,46,156	40,79,427	4,95,289
	1946-47	269,43,831	69,33,294	37,16,621	1,32,391
	Average ...	240,92,428	93,93,633	28,68,574	91,679
Difference between 1947-48 and 1946-47.		-55,46,074	-17,86,838	+3,62,806	+3,62,988

Circle.	Year.	Total. Rs.	Surplus or deficit.	Percentage of surplus to Revenue.
North Western Circle.	1947-48	20,13,776	+ 67,67,145	77.7
	1946-47	14,03,645	+ 90,39,589	86.6
	Average ...	34,33,913	+ 59,47,008	63.4
North Eastern Circle.	1947-48	10,07,185	+ 20,88,946	67.4
	1946-47	9,95,694	+ 23,31,526	70.1
	Average ...	11,23,770	+ 14,75,721	56.7
Central Circle ...	1947-48	18,91,798	+ 10,53,872	33.5
	1946-47	25,25,498	+ 10,46,558	28.7
	Average ...	27,88,513	+ 13,62,313	32.8
Southern Circle ...	1947-48	36,85,294	+ 27,22,791	42.5
	1946-47	32,43,403	+ 33,99,460	39.3
	Average ...	47,88,934	+ 26,25,639	35.4
General Direction.	1947-48	4,05,325	- 3,93,669	
	1946-47	2,86,062	- 2,73,140	
	Average ...	2,21,127	- 2,17,895	
Research and Work- ing Plans.	1947-48	4,93,440	- 4,89,189	
	1946-47	48,076	- 47,979	
	Average*			
Utilization and Engineering.	1947-48	2,23,153	- 2,03,616	
	1946-47	2,76,479	- 2,37,627	
	Average*			
Additional Director of Civil Supplies.	1947-48	1,201	+ 1,30,308	99.6
	1946-47	3,359	+ 9,03,231	99.6
	Average(a)	2,629	+ 4,50,666	99.4
Total ...	1947-48	97,21,172	+ 116,76,588	54.6
	1946-47	107,82,216	+ 161,61,618	59.9
	Average ...	123,58,886	+ 116,43,542	48.5
Difference between 1947-48 and 1946-47.		- 10,61,044	- 44,85,030	

*Newly created
Circles. Hence
averages not
given.

(a) Average for
two years only
as the office was
not in existence
before.

155. The revenue, expenditure and surplus of the year show a decrease of Rs. 55,46,074, 10,61,044 and 44,85,030 respectively over the figures of the last year.

156. The drop in the revenue is due to:—

- (i) less quantity of timber and firewood sold and supplied;
- (ii) decrease in the earnings of the Alnawar-Dandeli Railway;
- (iii) refund of Rs. 1,07,694 to the Central Government as a result of wrong adjustment during the war in the Central Circle;

CHAPTER VII.

Administration.

161. The post of the Chief Conservator of Forests was held by Mr. W. C. de C. Walsh from 1st April 1947 to 14th August 1947 and by Mr. E. T. C. Vas from 15th August 1947 onwards.

162. With effect from 1st January 1948 the Research and Utilization Circle and the Forest Engineering Circle were recast and designated as Research and Working Plans Circle and Utilization and Engineering Circle. The Utilization Branch of the Research and Utilization Circle was transferred to the Forest Engineering Circle and the Working Plans Divisions which were formerly under the control of the territorial Conservators were placed under the administrative control of the Conservator of Forests, Research and Working Plans Circle.

163. The Circle charges were held by the following officers :—

Circle.	Name of Officer.	From	To
North Western.	Mr. E. K. Kotwal ..	1-4-1947	30-9-1947
	Mr. S. P. Pandya ..	1-10-1947	31-3-1948
North Eastern.	Mr. E. T. C. Vas ..	1-4-1947	23-8-1947*
*Held charge of the post in addition to his duties as Chief Conservator of Forests from 15th August 1947 to 23rd August 1947.			
Central Circle.	Mr. Y. R. Divekar ..	24-8-1947	30-9-1947
	Mr. E. K. Kotwal ..	1-10-1947	31-3-1948
	Mr. E. S. B. Tavener ..	1-4-1947	30-9-1947
	Mr. Y. R. Divekar ..	1-10-1947	11-1-1948
Southern Circle.	Mr. S. N. Kesarcodi ..	12-1-1948	13-1-1948
	Mr. J. A. Singh ..	14-1-1948	31-3-1948
	Mr. J. Walker ..	1-4-1947	14-8-1947
Forest Engineering Circle (Later Utilization and Engineering Circle).	Mr. G. S. Singh ..	15-8-1947	31-3-1948
	Mr. T. K. Mirchandani, M. B. E.	1-4-1947	31-3-1948
Research and Utilization Circle (Later Research and Working Plans Circle).	Mr. S. N. Kesarcodi ..	1-4-1947	3-6-1947
	Mr. Y. R. Divekar ..	4-6-1947	6-8-1947
	Mr. S. N. Kesarcodi ..	7-8-1947	31-3-1948

164. The usual transfers of officers took place according to exigencies of administration.

165. The temporary post of Director of Forest Training was held in abeyance from 24th August 1947 when Mr. Y. R. Divekar assumed charge of the North Eastern Circle, and was not revived since then.

166. Mr. S. N. Kesarcodi, Conservator of Forests, Research and Utilization Circle was deputed to the United Kingdom for 2 months from 4th June 1947 to 6th August 1947 as one of the 2 delegates of India to attend the Empire Forestry Conference.

167. The temporary post of Divisional Forest Officer, Kanara Working Plans was abolished from 16th March 1948.

168. The temporary post of Divisional Forest Officer, Timber Supply, which came into being from 1st April 1947, was held in abeyance from 18th March 1948.

169. Mr. E. T. C. Vas was confirmed as Conservator of Forests with effect from 23rd May 1947 and Mr. C. J. Fernandes in Bombay Forest Service Class II from 15th April 1947.

170. Messrs. K. P. Karamchandani, B. S. Bhatena and G. R. Mavin-kurve successfully completed the Superior Forest Service Course and on their return from Dehra Dun in April 1948 were appointed as Assistant Conservators of Forests.

171. During the year, Messrs. G. S. Chandras, M. Y. Sowani, D. D. Yellurkar, P. D. Chapgar, and D. A. Marballi were selected for the 1948-50 Superior Forest Service Course at Dehra Dun.

172. As a result of the transfer of power, Mr. W. C. de C. Walsh, Chief Conservator of Forests, Messrs. H. C. Holmes and E. S. B. Tavener, Conservators of Forests, and Mr. J. Walker, Officiating Conservator of Forests proceeded on leave preparatory to retirement from 15th August 1947, 9th September 1947, 1st October 1947 and 15th August 1947 respectively. Messrs. R. J. Smith and R. F. Sandeman, who were already on leave, extended the leave and converted it into leave preparatory to retirement.

SUBORDINATE AND CLERICAL SERVICE.

Training of Rangers.

173. The seven students sent to the Rangers' Course for 1946-48 at Dehra Dun completed their training and all passed with Higher Standard Certificates.

174. Ten candidates were selected for the Rangers' Course 1948-50 for the Province. The candidates were originally to join at Dehra Dun in April 1948, but the Forest College at Coimbatore having been taken over by the Government of India, it was decided that the Bombay Ranger students should be trained at Coimbatore. Accordingly, 6 out of the 8 candidates selected for the Province and 1 of the 2 selected for Dangs joined at Coimbatore in August 1948.

Training of Foresters.

175. The Foresters Training Class at Mandvi was shifted to Bordi in the North Thana Division and was held for a continuous period of 6 months from 1st November 1947 and an independent Instructor was appointed to conduct the class. Of the 26 students (9 from the North

Eastern Circle, 8 from the North Western Circle, 5 from the Central Circle, 1 from Dangs, 1 from Surgana State, and 2 Backward Class candidates) only 12 passed the final examination and were awarded the necessary certificates.

176. The Foresters' Training Class at Haliyal was conducted this year by an independent Instructor instead of by the Range Forest Officer, Haliyal in addition to his own duties as in the past. Out of the 11 students including 1 from Sangli State, 10 passed the final examination.

Training of Surveyors.

177. The second term of the Surveyors' Training Class was held from 1st July 1947 to 30th September 1947, and 14 candidates were trained, out of whom 13 were declared as passed.

178. The staff, both protective and clerical, has again put in a very hard year's work in difficult circumstances.

179. The following table gives the casualties and punishments during the year :—

Description.	North Western Circle.	North Eastern Circle.	Central Circle.	Southern Circle.	Research & working plan Circle.	Utilization & Engineering Circle.	Total 1947--48.	Total 1946--47.
Retirements	12	12	17	17	2	4	68	56
Deaths.	6	9	7	10	..	1	33	27
Resignations.	10	5	4	9	2	2	32	28
Degradations.	3	4	1	5	...	...	13	21
Dismissals & Removals.	4	11	3	...	...	...	18	14
Prosecutions.	...	...	...	2	...	...	2	8
Total :	35	41	36	43	4	7	166	154

180. The health of the staff was fair except in places which are notorious for their bad climate. D. D. T. spraying was done in many places in the Southern Circle by the parties deputed by the public Health Department.

181. A camp dispensary was allotted to the Working plans Division during April and May 1947, and it was very helpful both to Working Plan staff and the surrounding villagers. This was however subsequently discontinued.

182. The Civil Surgeon, Thana, opened subsidised medical centres (Ayurvedic) in the Thana District. These will no doubt be helpful to the subordinates and the villagers in the adjoining places.

Measures to suppress corruption.

183. All applications against forest subordinates were promptly enquired into, and the subordinates found guilty were suitably dealt with. As usual strict control over expenditure and piece work rates was exercised by all Forest Officers.

184. One Officiating Forester in the Belgaum Division, who was suspended from 7th December 1946 as the result of allegations of taking bribe is under prosecution and the case is still being heard.

185. One Officiating Ranger, one Surveyor, two Round Officers and one beat-guard in the Kolaba Division were placed under suspension from 6th May 1947 as a result of allegations of taking bribe. The case was first dealt with by the Anti-Corruption Branch, on receipt of whose report Government ordered that Departmental enquiry should be held, as a result of which the two round officers and the beat-guard were dismissed. The Surveyor was given the benefit of doubt for want of adequate evidence, and the officiating Ranger was removed from service; but in view of his long service of 34 years he has been recommended for grant of compassionate pension.

186. One Round guard in the Kolaba Division is under suspension from 10th June 1947 for misappropriation of Government money of Dalhi assessment. The Police Department is investigating this case.

187. Two guards in the West Nasik Division, who were prosecuted last year by the Anti-Corruption Branch were acquitted during the year. The prosecution lodged against the two clerks in the West Khandesh Division is subjudice.

188. The case launched by the Anti-Corruption Branch against 1 Ranger in the North Western Circle was not decided during the year, while the case launched against one Forester in the same Circle is withdrawn and still under consideration.

189. One Ranger, 3 Foresters and 1 Guard who were involved in the Shahapur illicit cutting case in the East Thana Division were dismissed from Government service.

190. One Ranger, who was under suspension in connection with the East Vada charcoal case was reduced from Rs.175 to Rs.150.

191. The prosecution lodged against the Head Clerk in the Dharwar-Bijapur Division under section 406 I. P. C. is still pending in the court.

192. Two guards who were suspended on account of allegations of ribbery made against them by a medar of Kalghatgi through Anti-corruption Committee, were reinstated as they were acquitted by the trying Magistrate, Hubli.

Inspections and Tours.

193. His Excellency the Governor of Bombay visited Haliyal in October 1947 and Yellapur in April 1948.

194. The Honourable Minister for Forests and Agriculture inspected the casuarina forests near Dahanu and visited the Forest Training Class at Bordi in November 1947. He toured in the Southern Circle in May 1947 and February 1948.

195. The Honourable Ministers for Law and Civil Supply and for Home and Revenue toured in the Southern Circle in May 1947.

196. The Honourable Minister, Reconstruction and Local Self Government paid an unofficial visit to Poona Research Garden in August 1947.

197. The Principal, Indian Forest College, Dehra Dun, with his students, visited the Southern Circle in February 1948.

198. Mr. Banerji, I.F.S., from New Delhi, paid a visit to Dandeli Sawmills and Plywood Factory, skidding work in Nagzari and Karwar, in January 1948.

199. The Chief Conservator of Forests, Province of Bombay, the Conservator of Forests, Research and Working Plans Circle, the Silviculturist and Forest Utilization Officer toured in all the Circles. The Chief Conservator of Forests while on tour inspected the offices of the Conservator of Forests, North Eastern Circle and the Conservator of Forests, Southern Circle.

200. The Conservators of Forests in the course of their tours inspected all Divisional Forest Offices in their charges except two in the North-Western Circle and West Nasik Division in the North-Eastern Circle. No serious irregularities were noticed. As the Research and Working Plan Circle came into being only in April 1947, it was not possible for the Conservator of Forests to inspect any of the offices under his control during the year.

201. Some of the Divisional Forest Offices were inspected by the Audit staff of the Accountant General, Bombay.

202. The Conservator of Forests, North-Western Circle inspected the Forests of the Junagadh State in February 1948 with a view to advise on the re-organisation of the Forest Department of the Junagadh State, and submitted his report which was forwarded to the State authorities through Government.

Civil suits.

203. The suit filed by Mr. Apte for the price of teak trees sold from his lands has not yet been decided.

204. The second appeal No. 1332 of 1945 filed by Mr. Kazi Abdulla Vallad Kazi Fakir in the High Court of Bombay against the decision of the District Judge, Thana, setting aside the decree of the lower Court in Civil Suit No. 258 of 1942, is still pending.

205. The civil suit against the Province of Bombay and the Divisional Forest Officer, Western Division Kanara by name was dismissed with costs. The plaintiff had filed an appeal in the High Court against the decision of the lower Court.

Land Revenue Administration.

206. The Divisional Forest Officer, West Nasik continued to function as Assistant Collector and Excise Superintendent of Peint Mahal. The Revenue Administration of the unsurveyed villages and the Excise Administration of the Akrani Mahal remained in the hands of the Forest Department.

Forest Village Panchayats.

207. The four Panchayats in Kanara Northern Division and 13 in Kanara Western Division continued to function as usual. It is reported that the Panchayats have not done any works of improvement.

Relations between the Forest and other Departments.

208. These continued to be cordial.

 CHAPTER VIII.
Post-war Reconstruction Schemes.

209. The progress under the various Post-war Reconstruction Schemes sanctioned by Government was satisfactory during the year, the work done under each of the Schemes being as follows :—

210. *Scheme No. 54. Rehabilitation of Forests.*—During the year the second Working Plans Division *viz.*, the Kanara Working Plans Division, specially created for the Southern Circle, where as many as 35 different Working Plans are due for revision, was abolished as it was found that the arrangement did not work well since the data collected by the two Divisions could not be properly utilized in the same season. The Kanara Working Plans Division thus ceased to exist from 1st April 1948. This Division did field work upto the end of December 1947, after which to the date of its cessation it was engaged in computing the data collected and in completing other arrear works.

211. For the proper co-ordination of the work of the Working Plans Divisions and to ensure proper control over their work, the remaining three Working Plans Divisions were placed under the Conservator of Forests, Research and Utilization Circle, redesignating the Conservator as the Conservator of Forests, Research and Working Plans Circle.

212. A fresh programme for revising all the Working Plans in each of the four Circles was drawn up. According to this all the Working Plans were proposed to be revised by the end of 1954, provided a fourth Working Plans Division was sanctioned by Government for the fourth Circle, proposals for which were duly submitted to Government. It was also provided in the programme that the enumeration surveys should be explorative of the various forest resources of the immediate and potential industrial value.

213. Enumeration surveys were carried out over 373 square miles of unorganized forests of the Southern Circle with a view to ascertaining the potential industrial value of these forests. In addition 90 square miles of organized forests under (i) Gund Working Plan, (ii) Kabinadi Slopes Working Plan, (iii) Nersol Slopes Working Plan and (iv) Phagwati Working Plan were also enumerated in April—May 1947. During January to March 1948 further enumeration, by the Divisional Forest Officer only, was carried out over 187.7 square miles of organized forests in Nagargali S. XIX and Northern Division Kanara High Forest S. I to VII. Enumeration in the organized forests was limited to 10 per cent. of the areas where all species including bamboos were enumerated, while in the unorganized forests the work done was over 5 per cent. of the areas. The revision of both Nagargali High Forest Series XIX and the Northern Division Kanara High Forest Series I to VII was in hand. Enumeration surveys were also carried out in the Thana forests in seven felling series and measurements of 381 trees were taken to ascertain the girth and volume increment of teak and injaili species. Further data collection is to be done in these forests. Data collection in Mandvi forests was also done consisting of:—

(a) one acre sample plots in coupes 2 and 3 of ten blocks in order to know the existing stock;

(b) analysis of 25 stumps to ascertain the diameter increment and

(c) stock mapping of bamboo areas.

214. A preliminary report on Mandvi Working Plan was also written by the Divisional Forest Officer. The two Working Plans—the Working Plan for the Transpurna Babul Forests of the Edlabad Range and the Working Plan for the Babul Forests of Jamner, Bhusawal and Edlabad Ranges in East Khandesh Division were combined and a new plan called the Revised Working Plan for East Khandesh Babul Forests was drawn up and submitted.

This plan has been finally approved and is being sent to the press. The final draft for the working Plan for the East Khandesh Scrub and Jamner Teak Reserves was drawn up. Similarly the Working Plan for the Anjan and Scrub Forests of the Edlabad Range of the East Khandesh Division, data for which was collected in November 1947, was also drawn up, but certain further modifications are considered necessary in the draft which are being effected.

215. From January 1948, the enumeration survey and data collection has been started in the Kolaba Forests.

216. *Scheme No. 55—Communications.* Reasonable progress under this scheme was not possible as the technical staff proposed for the Engineering Circle was not sanctioned upto the close of the year. However estimates for some of the roads were prepared. Repair work was also carried out to (i) Satighat-Harsul road and (ii) Golshi Hast road in West Nasik Division at a cost of Rs. 3,759. In the East

Khandesh Division special repairs to 11 miles 2 furlongs of Deoziri-Satrasen road and 5 miles 3 furlongs of Borajanti-Vaijapur road were carried out at a cost of Rs. 5,081. Special repairs to the following three roads costing Rs. 5,129 were also undertaken but not completed :—

	Length.	
	M.	F.
(i) Wagzira-Mandapnala ...	11	— 0
(ii) Sitarbara-Panchpandav...	6	— 1
(iii) Sitarbara-Gadra ...	7	— 1

217. *Scheme No. 56—Buildings and Wells.*—The revised list of buildings and wells comprising the three year constructional programme was sanctioned by Government. As the sanction was received as late as October it was not possible to undertake any of the works. Also want of sanction to the technical staff under the Engineering Circle much affected the speedy drawal of estimates for works under this scheme. The first year programme will be taken up in 1948-49.

218. *Scheme No. 57.—Improvement of denuded areas.*—Work under Sangola and Pardi Taluka Schemes was continued. In Sangola the following works were carried out at a cost of Rs. 8,955 :—

Village.	Pasture & Ranch.	Area.	Nala bunding Cft.	Contour trenching Rft.
Karjal	... I/5 & 3	208-24	...	19,159
Shivne	... I/15	110- 0	4,260	31,783
Achakdani	... I/12	179-37	...	44,818
Lotewadi	... I/11	114-12	...	28,961
Hal-Dahivdi	... I/7	56- 0	2,264	15,260
Total	...	668-33	6,524	1,39,981

219. The trenches were planted and the total number of plants surviving at the close of the year were 5,679.

220. The afforestation works carried out in Pardi were as follows :

Village.	Area Acres.	No. of seedlings planted.	Total Cost Rs.
Goinsa	55-7	36,820	} 10,761
Banankarwad	51-6	9,475	
Udwada	10-0	2,983	

221. The total number of plants surviving at the close of the year, including those from the previous plantings were 37,863.

222. Under the Satara Taluka Scheme which was sanctioned during the year, sowing of grass seed and tree planting and other maintenance works were carried out at a cost of Rs. 2,224. The number of plants surviving at the close of the year were 9,052. The area attempted was 2,731 acres from 15 villages.

223. The areas in Athani talukawhich were taken over from the Land Improvement Department were highly denuded and eroded. Priority was given for selection of suitable sites which were subjected to anti-erosion measures consisting of contour trenching, nala-bunding, and gully plugging. The scheme was applied to 18 villages in Athani taluka out of the 41 villages.

224. The expenditure incurred during the year was Rs. 17,159 on the following works :—

(1) Survey and demarcation of Government waste lands. Survey was done in 128 acres and 27 gunthas and 141 cairns were erected in the survey numbers of (i) Nandgaon, (ii) Athani, (iii) Aigali and (iv) Bagdi villages. The cost was Rs. 408.

(2) Improvement works in 1,317 acres taken over from the Land Improvement Department, consisting of :—

'Repairs to trenches	...	...	1,35,847 Rft.
Nalla bunding	...	...	15,175 Cft.
Gully plugging	...	...	468 Cft.
Digging	...	...	560 Pits.
Refilling furrows	...	...	20 Acres.

were carried out at a cost of Rs. 1,966.

(3) Sowing, planting, weeding, preparing trenches etc., Rs. 1,660.

(4) Establishment charges—Rs. 12,548.

(5) Dead stock articles—Rs. 321.

(6) Rent of office and contingency—Rs. 256.

225. Areas in the seven villages viz., Athani, Chikatti, Satti, Nandgaon, Aigali, Badgi and Telsang, which were under improvement and afforestation were closed to grazing under the orders of the Collector of Belgaum. Cutting of grass was however permitted during the closure period. However, further work in the Taluka was discontinued from 1st February 1948 pending drawing up of a regular scheme for the areas for the sanction of Government.

226. A scheme for the formation of a Sub-Division for the Sholapur District comprising the forest and other waste areas falling within the six talukas Karmala, Malsiras, Madha, Pandharpur, Sholapur and Bars has been drawn up. A Sub-Divisional Forest Officer was posted specially on this work and for the survey of the areas concerned. A scheme for

the formation of a Forest Division for the Ahmednagar District has been drawn up. A Sub-Divisional Forest Officer was specially put in charge of this work and has prepared the necessary scheme for the Ahmednagar Division. Afforestation scheme drawn up for the Broach District was submitted to Government for sanction. Schemes for Balsar, Chikhali, Chorasi have also been drawn up for submission to Government for sanction.

227. Formation of a forest division for the Ratnagiri District has been under consideration for some time. Government have accordingly appointed a Committee consisting of the representatives of the Revenue, Agriculture and Forest Departments and the members of the District Rural Development Board, Ratnagiri, for investigating into the possibility of forming a separate Forest Division for the District.

228. *Scheme No. 58.—Extra Territorial Circle.*—The extra Circle created last year was concerned with the day to day administration of the Circle, which was termed as the North Western Circle. The total expenditure on the scheme for the year was Rs. 57,850.

229. *Scheme No. 59.—Research and Working Plans Circle.*—The Research and Utilization Circle was reconstituted into Research and Working Plans Circle and the Utilization Divisions were transferred to the Forest Engineering Circle. On the other hand, the full administrative control of the Working Plans Divisions in the Province was placed under the new Research and Working Plans Circle. The special subjects to be dealt with by the newly reconstituted Research and Working Plans Circle were :—

- (i) Silviculture ;
- (ii) Minor forest products including Chemistry section ;
- (iii) Botany ;
- (iv) Statistical ;
- (v) Agri-silvi Research ;
- (vi) Grazing Research ;
- (vii) Working Plans co-ordination ; and

(viii) Dry distillation of wood and by-products. Appointments to the posts of the Botanist, Grazing Research Officer, Chemist and the Statistician have not yet been made. Pending appointment to these posts the work of the Circle was restricted to Silviculture and Silvicultural research and the Working Plans. A scheme for the Agri-silvi Research Station, Sirsi, was drawn up for submission to Government for sanction.

230. *Scheme No. 60.—Utilization and Engineering Circle.*—After the transfer of the Utilization and Industries Division and the Timber Supply Division from the Research and Utilization Circle, the forest Engineering Circle was redesignated as the Utilization and Engineering Circle. Later Government decided that the posts of the Divisional Forest Officers, Utilization Division and Timber Supplies Division

should be combined and that only one officer for both the posts should be appointed. The post of the Divisional Forest Officer, Timber Supplies, was therefore curtailed and the work of that office was taken over by the Conservator himself. The special subjects assigned by Government to this new Utilization and Engineering Circle are :—

1. Timber Supply ;
2. Forest Utilization comprising the following :—
 - (a) Air and Kiln seasoning,
 - (b) Wood preservation,
 - (c) Timber testing,
 - (d) Paper pulp, plywood, strawboards and fibre boards and other cellulose industries,
 - (e) Utilization of wood waste, saw-mill waste and other waste from wood using industries,
 - (f) Co-operation in plastics,
 - (g) Liaison with consumers, industries and export market,
 - (h) Wood technology,
 - (i) Wood-ware, handicrafts and cottage industries based on forest products.
 - (j) Improved wood (impreg, compreg, laminated wood).

231. With effect from the 1st January 1948 a new division for the control of the departmental sawmills in the Southern Circle was constituted within the Utilization and Engineering Circle, and the Sawmill Engineer was appointed as the Divisional Forest Officer to hold charge of this Division. The division was named "Sawmills and Wood Preservation Division". Thus both the upkeep of the mill machinery, the technical direction of the mill and its administrative control passed into the hands of a common authority, unlike in the past when the full control of the sawmill vested in the Divisional Forest Officer, Northern Division, Kanara, while the engineering section was responsible for the upkeep of the machinery only. The idea is better co-ordination conducive to improvement in the mill working with better outturn of sawn timber, and lower costs of working.

232. The technical staff recommended to Government for the Utilization and Engineering Circle was not sanctioned by Government to the close of the year and this was responsible for the slow progress under Post-war Reconstruction Schemes 55 and 56.

CHAPTER IX.

General.

233. *Financial Results.*—The financial results of the year were satisfactory though the figures of revenue and expenditure of the year fell from Rs. 269,43,834 and Rs. 107,82,216 of the previous year to Rs. 213,97,550 and Rs. 96,34,453 respectively during the year of report,

considering smaller quantities of timber etc., extracted and sold. Public sales in the departmental timber depots were also withheld, in order to conserve the timber stocks for essential works and this to some extent affected the realization of the revenue during the year.

234. *Timber.*—Sales and supplies of timber to Railways, Housing Department and other essential services were continued during the year. Public auction sales were restricted to rejected timber and such other material in the depots as was not suitable for the above-mentioned departments.

235. *Firewood and Charcoal.*—These were decontrolled from the 15th January 1948, the Bombay Charcoal and Firewood Trade Licensing Orders (1944) having ceased to have effect from that date. Consequently the prices of these commodities have soared very high. This is also partly due to lack of transport facilities both by rail and road. The question of disposal of approximately 1343 tons of charcoal produced in West Nasik Division for supply to the military at Deolali last year, which the military refused to accept owing to their disagreement with the methods of deliveries and weight, is under consideration of the Government. It is also under consideration as to who is to bear the financial loss as a result of the failure of the military to take delivery of firewood produced for them upto 1946-47.

236. *Working of coupes by Forest Labourers' Co-operative Societies.*—The system of working coupes through Co-operative Societies, generally of the forest coupe workers, was newly introduced with a view to doing away with the profits being appropriated by the capitalist coupe contractors. Eighteen coupes—6 in the North-Western Circle, 3 in the North-Eastern Circle and 9 in the Central Circle—were thus given out to workers' Co-operative societies for charcoal production. Government also appointed a committee to organize and assist co-operative societies of forest labourers and to co-ordinate the working, to provide for their supervision, and to plan for undertaking exploitation of forest coupes and regeneration of forest areas as well as for starting allied industries by or on behalf of the co-operative societies.

237. *Transport.*—Acute shortage of petrol combined with non-availability of railway wagons in sufficient number presented a great difficulty in the transport of timber and other forest produce to consuming centres. This situation resulted in the stagnation of timber stocks in depots and jungle to a great extent. The matter was taken up with the M. & S. M. Railway authorities in so far as the movement of material by rail from Dandeli and other stations in Southern Circle were concerned but without appreciable improvement. Unless there is remarkable improvement in the transport elements, the destiny of the timber trade in general will be far from satisfactory.

238. *Anavar-Dandeli Railway.*—The revenue and expenditure of this railway were Rs. 61,218 and 1,47,321 respectively. The net loss amounted to Rs. 86,103 or 104.6 per cent. of the gross receipts as

against Rs. 69,537 revenue, 1,44,388 expenditure and Rs. 74,851 loss, equivalent to 107.6 per cent. of the previous year. The figures for the year are for thirteen months, January 1947 to January 1948 whereas those of the previous year were for twelve months, January 1946 to December 1946. However, the reason for the difference of Rs. 11,252 between the deficits of these two years is particularly due to less earnings on coaching and goods traffic.

239. *Hunting and shooting.*—The revenue realized from game licenses was Rs. 7,071 against Rs. 7,712 in the previous year. Four free licenses to hunt and shoot in the reserved forests were issued to bonafide residents of Kanara and Dharwar Districts. The details of animals killed in Government forests are given below :—

All India Serial Nos.	Animal.	North Western Circle.	North Eastern Circle.	Central Circle.	Southern Circle.	Total	Average of 5 years 1942-43 to 1946-47.
1a	Tiger.	2	4	3	5	14	10
1b	Tigress	1	3	1	...	5	8
2	Panther	3	7	5	9	24	32
3	Wild cat	...	...	...	...	...	...
6	Hyena	...	...	...	...	...	.4
7	Wild dog	...	...	...	...	...	.1
14	Sloth bear	...	...	...	1	1	2
15	Wild elephant	...	...	...	3	3	5
17	Bison	...	...	4	6	10	7
29	Blue Bull	...	188a	...	...	188	130
30	Bhekar(4 horned antelope)	...	...	...	...	...	...
32	Chinkara	...	...	...	...	...	.2
33	Barking deer	...	...	...	...	...	.4
37	Sambhar	...	...	...	...	...	.7
38	Cheetal	...	...	1	...	1	8
43	Crocodile	...	...	...	...	...	.4
46	Wild pig	2	841(b)	...	1809	2652	2101
	Monkeys	...	...	...	...	...	4
	Total ...	8	1043	14	1833	2898	2317

(a) 187 killed by gun clubs.

(b) Killed by gun clubs.

240. As hunting and shooting was closed in the game blocks of Jamga and Kansirda in the Southern Circle which fall in the proposed game sanctuary, the wild fauna appeared to increase and wander about fearlessly in this area. Elsewhere, in the Province there was no appreciable increase or decrease in the number of wild animals and birds.

241. *Gun clubs.*—In the Southern Circle the number of gun clubs increased from 56 to 74 during the year. The formation of additional gun clubs is indicative of the people having realized the benefits derived from them, in eliminating night watch and decreasing the damage to crops. An exhibit, illustrating crop protection by gun clubs was displayed at the agricultural show held at Ron in the Dharwar District on 14th February 1948. In the Belgaum Division 851 wild pigs were killed by members of the gun clubs.

242. *Forest Dispensaries.*—Out of the 4 dispensaries to be opened in the forest tract of Kanara viz. Kadra, Ramanguli, Gersappa and Katgal, only one at Kadra was opened during the year. The forest dispensary at Dandeli continued to function as usual. The forest dispensary at Kirwatti afforded considerable relief to the local villagers. A separate building for this dispensary is under construction.

243. *Model Villages.*—The model village at Telgeri in Eastern Division Kanara is getting on well. All regrowth in the strip granted to the village was cut and burnt departmentally during the year.

244. *Village Water Supply.*—Government approved the construction of 9 tanks and 4 wells in Eastern Division Kanara in connection with the Village Water Supply Scheme. Wells at Rankheda and Birola in East Khandesh Division and at Lakdya Ifanuman, Shahana and New Aslod in West Khandesh Sub-Division were constructed during the year from funds provided under 39—Public Health, Village Water Supply—for the use of the settlers. Well at Borpani in West Khandesh Sub-Division was repaired during the year. In the Satara Division the villagers were allowed to dig water channels for agricultural purposes.

245. *Grass and Grazing and Rotational Grazing Schemes.*—Both the six pasture and the four pasture rotational grazing schemes were in operation during the year and the work done under each of the schemes was as follows:—

Six-pasture scheme.

F. S. No.	Ranch No.	Pasture No.	Village	Area, A. G.	Contour Trenching Rft.	Nalla bundling Cft.	Remarks.
1	C	3	Khandala	104-0	...	61831	The total expenditure was Rs. 3,199, including cost of seed and planting. Regeneration was done in I-B-2 I-C-3, I-D-4, II-B-2 and II-C-3. Only 1053 seedlings were surviving in the whole area due to heavy incidence of illicit grazing.
2	D	4	Vele	80-0	...	2234	
3	B	2	Shirgaon	164-0	...	28375	
4	C	3	Dogaon	355-0	4230	1170	
5	D	4	Kikli	80-0	650	...	
					4880	93610	

Four-pasture Scheme.

F.S. No.	Ranch No.	Pasture No.	Village.	Contour trenching Rft.	Nalla bunding Cft.	Gully plugging Rft.	Remarks.
I	A	10, 19, 28, I and 3.	Vikhale	...	1050	500	The work of retiling trenches was carried out in I-A-1, 3, 10, and 28 of Vikhale.
II	A	28, 10, 19, and 1.	Visapur	...	1299	1090	B-2 Rameshwar, and B-2 Bhadale and the were sown with ...
II	B	2	Rameshwar	...	1250	...	Regeneration work was also done in I-B-1, II-B-2, III-B-2, in addition to I-A-1, II-1 and III-A-1 of the previous year. The total number of plants surviving at the close of the year was 24,200. The results were so encouraging.
III	A	1, 10, 19 and 28.	Nigadi	...	...	1279	...
I	C	12, 3 and 21.	Bhadale	14044	87325	...	...
II	C	3, 12 and 21.	Ekambe	24750	24818	...	...
III	C	3, 12, 21 and 30.	Kirwal	5887	136238	...	...
II	E	3 and 21	Ekambe	8833	18118	...	...
III		21	Do.	...	25528	...	...
II		30	Do.	...	31900	...	...

246. The Igatpuri rotational grazing scheme was continued and kurans out of 8 were sold during the year. Provisions for regular grazing on rotational basis are also being taken for other areas in the locality and to certain grass areas in the Panch Mahals Division and Surat Sub-Division.

247. The following two kurans remained in charge of the cattle breeding farms concerned during the year according to the 5 year plan drawn up in their cases:—

Name of the Cattle breeding Farm.	Name of the kuran.	Area of the kuran A. G.
(i) Gilligan Cattle Breeding Farm.	Pimpale kuran.	403-0
(ii) Gangapuri Cattle Breeding Farm.	Gangapuri Kuran.	300-0

The Kandari kuran No. 33 and two-third of the Sonari kuran No. 13 in the East Khandesh Division were reserved for supply of grass to the Government dry cattle farm at Jamner and sold during the year on condition of supplying the resultant grass to the said Government Farm.

248. *Tahal cutting*.—Special staff consisting of three foresters and 6 guards to do the work of demonstration of tahal cutting and its proper enforcement and supervision in the Rabi forests of the three Peint Ranges was sanctioned by Government. Actual appointment of the staff was however late by which time most part of the tahal cutting season was over. The staff however went round the villages explaining to the villagers the tahal rules and the correct method of tahal cutting and villagers promised to follow the rules next season. In the Kolaba Division also demonstrations of tahal cutting were arranged according to Government orders at various places to show to the villagers how to carry on the operations in a systematic manner. The demonstrations were attended by some of the local leaders.

249. *Rural Development Board*.—The meetings of the District Rural Development Boards and the Forest and Grazing Committee were attended by respective Divisional Forest Officers and in some cases by the Conservators of Forests.

250. *Industries*.—The erection of the factory at Londa for the Dry Wood Distillation was in progress. According to the estimation of the Company the plant would be ready for going into production by January 1949. The final print of the memorandum of Association of the Company, with the articles of Association were approved by Government and signed. Also the option agreement and the Production Manager's agreement as revised were approved. The revised agreement is deemed to have commenced as on and from the date of incorporation of the Company viz. 6th March 1948 and continue in force for a period of 10 years.

251. The two Plywood Companies, viz. the Karnatak Industrial and Plywood Company and the Indian Plywood Company, continued their work.

252. The question of revision of the concessions given to the two Plywood Companies viz. the Karnatak Industrial and Plywood Company Limited and the Indian Plywood Manufacturing Company Limited is under the consideration of Government. A scheme is being drawn up by the Forest Department, for the next 5 years in respect of a zone or exploitation to be earmarked for each Company for providing a stipulated yield of 4,000 tons of plywood species and also in respect of the following list for each zone for obtaining the above yield, year after year or group of years.

253. *Senior Forest Officers' Meetings.*--During the year there were five such meetings on 14th April 1947, 30th May 1947, 9th July 1947, 22nd September 1947 and 3rd November 1947 respectively.

The meeting of 14th April 1947 was inaugurated by the Honourable Minister for Forests and Agriculture who also addressed the Conference. The rest of the meetings were held at Poona. Several important questions relating to the current forest policy, forest administration and other forestry matters were discussed in the meetings and suitable conclusions were arrived at.

254. Copies of the Commissioners' remarks on the Circle administration Reports are attached.

E. T. C. VAS,
Chief Conservator of Forests,
Province of Bombay.

Review by the Commissioner, N. D., on the Forest Administration Report of the North Western Circle for the year 1947-48.

No. FOR. 47/48.

Ahmedabad, 6th October 1948.

1. The gross Circle revenue for the year 1947-48 amounted to Rs. 87.80 and the surplus to Rs. 67.67 lacs. This means a decrease of Rs. 16.63 lacs and Rs. 10.52 lacs respectively over the previous year's figures. The decrease is attributed to--

(1) Less coupes sold during the year under report;

(2) Shortage of labour, because of which the Malki coupes from East, West and North Thana Divisions, could not be worked.

2. *Kalkuris*.--Efforts were made to improve the lot of the Adiwasalabourers. The labourers' wage terms were strictly enforced, and cases of under-payment by the Forest Contractors were enquired into by the Forest Department Officers and by the Special Officer, and dealt with strictly under their agreements. The working of the coupes by the Adiwasalabourers themselves on a co-operative basis deserves praise and encouragement. The more such co-operative working is extended, the quicker would be the improvement of the labourers' economic condition, and the less their exploitation by the Forest Contractors.

3. The fire protection work was not very satisfactory during the year under review; and the area burnt was more by 28 square miles than in the previous year. The increase is attributed for (1) Shikaris and permit-holders kindling fires in the forest and leaving them unextinguished; and (2) passers-by throwing half-burnt *bidis* and cigarettes carelessly; (3) villagers burning stub on adjoining malki lands; (4) and Contractors burning the charcoal kilns, without fire-tracing the kiln-sites. Suitable propaganda and public co-operation, as well as more effective supervision by the Subordinates, are indicated.

4. 4919 cases were compounded during the year; and 43, (including 15 from the previous year) were committed to the Courts for trial. The undetected cases numbered 1336, against 1095 cases undetected during the previous year.

5. Of the 43 cases sent up for Court trial, only 7 were decided, and 36 were pending decision at the end of the year.

6. The fuel out-turn increased during the year to 1,04,000 cft. There was, however, no demand during the year from the Military Department for timber and fuel. The income from minor forest produce was Rs. 107 lacs, as against Rs. 1.32 lacs during the previous year.

7. The Forest Advisory Committee has been dissolved; and Government have re-constituted the Thana District Rural Development Board.

General Remarks.--

(1) Large stocks of charcoal and firewood are said to be held up at the rail heads, due to transport-difficulty at the same time causing shortage in the cities and a rise in the prices (of firewood and charcoal). The question of moving the accumulated stocks to the consuming centres requires urgent consideration.

(2) The Conservator's suggestion to provide housing accommodation for the staff deserves urgent attention, as being a matter closely connected with the maintenance of the health and morale of the personnel.

(Signed) U. M. MIRCHANDANI,
Commissioner, N. D.

Remarks on the Annual Forest Administration Report for the Southern Circle for the year 1947-48.

No. FORPRB.

Belgaum, 21st October 1948.

It is seen from the report of the Conservator of Forests that the working of the Department during the year was fairly efficient.

2. There is an increase in the number of Forest offences particularly under "Unauthorised felling of forest produce" during the year over that of the previous year. The general rise in cost of living is reported to be the cause of illicit cutting on an extensive scale. The number of cases taken to the Courts was negligible as compared to the number of offences detected. A larger number of prosecutions in Courts may have a more deterrent effect.

3. There is an appreciable increase in the number of undetected offences. No rewards were granted during the year for the detection of offences. It is advisable to encourage the Forest staff by grant of suitable rewards for detection of offences in order to reduce the number of undetected cases.

4. The decrease in the Forest revenue appears to be due to the drop in the quantity of firewood sold and supplied, fall in the revenue Alwar-Dandeli Railway, large outstandings against the purchasers of coupes and fall in income from the Government trucks. The department may consider the possibility of giving out more forest coupes for extraction in order to check the rise in the prices of fuel. All necessary steps may be taken to recover the amount of revenue outstanding against the purchasers of the coupes.

5. Teak regeneration areas to the extent of 400 acres only were taken up during the year for planting under the *agrisilva* forestry method. It is suggested that as much area as is available should be granted for *agrisilva* to give a fillip to the Grow More Food Campaign and for raising teak plants without any cost to the Forest Department. The grant of lands to private agencies for growing fruit trees may also be made on a more liberal scale where feasible.

6. The rural development work done during the year was satisfactory.

7. The Gun Clubs appear to have proved effective in protecting the crops from the ravages of wild animals. Effort should be made to increase the number of Gun Clubs in areas infested by wild animals.

8. It is regrettable that the Forest Village Panchayats have done no work of improvement. The Collectors concerned should guide the *panchayats* to make the best use of the forest lands assigned to them by drawing up suitable plans of improvement in consulting with their Rural Development Boards.

(Signed).....

For Commissioner, S. D.

Copy to: The Chief Conservator of Forests, B.P. Poona.

Letter No. FOR-0/4-XXII of 11th September 1948 from the Commissioner, C. D. to the Chief Conservator of Forests, B. P.

Subject: Forest Administration Report of the Central Circle and North East Circle for the year 1947/48.

"I am not in a position to review the forest administration of this Division during the last year 1947/48 as I have taken over this day only. However, I suggest the following:—

(1) For the uplift of backward classes attempts should be made to form more co-operative societies of aboriginals and to give them more coupes for working.

(2) The Post-War Reconstruction Scheme No. 54—Forest Rehabilitation and No. 57—Improvement of denuded areas should be pushed on and revision of working plans carried out expeditiously and

(3) The systematic planning of forests in Ahmednagar and Sholapur districts is urgent and essential. The proposals of opening forest subdivisions in these districts referred to in paragraphs 289 and 290 of the annual report of the Conservator of Forests, Central Circle, should, therefore, be worked out and got sanctioned by Government as soon as possible.

2. On the whole the working of the forest administration was satisfactory."

**PRESS NOTE OF THE FOREST ADMINISTRATION REPORT
FOR THE YEAR 1947-48.**

The changes caused by afforestation and disafforestments during the year resulted in a net decrease of 2 square miles in the total forest area of the Province, which stood at 12,870 square miles at the close of the year. The reduction was due to disforestation and cultivation.

2. Offences detected during the year recorded an increase over those of the previous year, the increase being due to more offences under injury by fire, unauthorised feelings, and other delinquencies. Cases under unauthorised grazing, however, showed an 8 per cent. decrease. In the majority of cases, forest fires were caused by shikaries, passers-by and by the villagers and labourers engaged in the collection of forest products under the privilege codes. The tendency to illicit cutting has also increased with the steep rise in the cost of wood, especially fuel.

3. The area regenerated naturally as well as artificially during the year was 88,291 acres. In addition 13,341 acres were planted under Agri-silvi system.

4. The quantity of forest produce removed by departmental agency was 17,31,000 cft. of timber, 42,59,000 cft. fuel and Rs. 3,14,832 worth of sapalwood, while the quantity removed by consumers and purchasers was 71,58,000 cft. timber and 2,54,15,000 cft. fuel valued at Rs. 125,62,105 and Rs. 13,51,479, respectively. In addition the value of bamboos, grass and grazing and other forest produce removed by them was Rs. 7,94,899.

5. 67,000 cft. of timber valued at Rs. 31,716 and 160,15,000 cft. fuel valued at Rs. 5,55,941 and minor forest produce worth Rs. 2,39,416 were removed by the right-and-privilege-holders, while free grants of 99,000 cft. timber valued at Rs. 93,789 and of other forest products worth Rs. 11,534 were made in deserving cases.

6. The annual forest operations such as exploitation of forests, construction of buildings, roads etc., provided employment to 68,18,828 labour units of which 5,96,286 were employed on departmental works and 62,22,542 under the forest contractors. The average wage rates per unit paid by the two agencies were Rs. 121 and 154 respectively. The enforcement of the minimum wage conditions in respect of labour employed by the coupe contractors in the Thana, Kelaba and West Kharodesh Divisions and in the Patta Mahal of the Nasik District continued during the year.

7. The gross revenue of the year was Rs. 2,13,97,700 against an expenditure of Rs. 17,21,172, realising a net surplus of Rs. 116,76,528. Though the surplus records a higher figure of the preceding year, it is more than the average surplus calculated for the previous quinquennium. The fall in the figures of revenue and expenditure as compared with those of the preceding year was mainly due to the discontinuance of the advances and irregular working of the forests, which was a war time measure and the returning to normal conditions.

8. The Utilization Circle created for the organization of war supplies, was abolished and a new Research and Utilization Circle was constituted. The new Circle came into being at the beginning of the year and dealt with all utilization matters in addition to forest research. The Conservator of Forests, Research and Utilization Circle, was deputed to the United Kingdom for two months from June to August to attend the Empire Forestry Conference.

9. Though most of the Forest Mahals have been abolished and the areas transferred to the Revenue Department for administration, the Divisional Forest Officer, West Nasik continued to function as ex-officio Assistant Collector and Excise Superintendent of the Patta Mahal. Also the Revenue administration of the unsurveyed villages in and the forest administration of the Akrani Mahal remained in the hands of the Forest Department.

10. The four panchayats in the forest villages of the Kanara Northern Division and in the Kanara Western Division continued to function, but have not carried out any works of improvement.

11. Firewood and charcoal were decontrolled from 15th January 1948. The prices of these commodities consequently soared very high. This was also due to lack of transport facilities both by rail and by road.

12. Acute shortage of petrol combined with non-availability of Railway wagons in sufficient number, presented great difficulties in the transport of timber and other forest produce to consuming centres. This resulted in the stagnation of timber stocks in depot and in the jungle to a great extent. The matter was taken up with the Railway authorities but without any appreciable improvement.

13. Out of the 4 new dispensaries to be opened in the forest tract of Kanara, the one at Kadra only was opened during the year. The existing forest dispensary at Dandeli continued to be very useful to the forest staff as well as to the local and neighbouring villagers. The forest dispensary at Kirwatti also afforded considerable relief to the local villagers.

14. The Forest Department continued to be the agency for the construction of village water supply works in the remote forest places. During the year Government approved the construction of 9 tanks and 4 wells in the Kanara Eastern Division. Wells at Rankheda and Birola in the East Khandesh Division and at Lakdyia Hanuman, Shahna and new Aslod in West Khandesh Sub-Division were constructed by the Department from funds allotted under "39-Public Health". The well at Borpail was also repaired during the year.

15. Both the six and the four pasture rotational grazing schemes were in operation during the year. Under the former 4880 Rft. of contour trenching and 93610 cft. of nalla bunding was done in five pastures while under the latter 53,544 cft. contour trenching, 3,30,316 cft. nalla bunding and 2,869 Rft. gully plugging was carried out in 28 pastures. The total expenditure on the two schemes was Rs. 3,199 and Rs. 20,625 respectively.

16. The work of the two Plywood Companies, viz., the Karnatak Industrial Plywood Company, Limited, and the Indian Plywood Manufacturing Company, Limited, was in progress. The erection of the factory at Londa for dry wood distillation continued and it is expected that the plant will be ready for going into production by January 1949. The question of revision of the concessions given to the two plywood companies has been under consideration of Government.

17. Considering the availability of trained staff, the progress under the various Post-war Reconstruction Schemes was satisfactory. During the year the additional Working Plans Division, namely the Kanara Working Plans Division, specially created for the Southern Circle was abolished as the arrangement of having two Working Plans Divisions, for the Southern Circle did not work well. The remaining three Divisions carried on their survey and data collection work and the revision of the pertinent Working Plans.

18. Preparation of plans and estimates etc., was carried out in respect of schemes 55 and 56 dealing with communications and Buildings and Wells. The work under Scheme 57 Improvement of denuded areas, was upto the programme. Afforestation was done under the Sangola and Pardi taluka schemes in the Sholapur and Surat Districts respectively, while in the Satara and Athni talukas only maintenance of the works already carried was done. Further afforestation schemes for the formation of the Ahmednagar District into a forest Division and the Sholapur District into a forest Sub-Division were drawn up as also a few other schemes viz., for Broach District and Athni, Chikhal, Chorasi and Bulsar Talukas. All these will be worked as part of the all-province Scheme 57.

19. The formation of a forest Division for the Ratnagiri District has been under consideration for some time. Accordingly, a committee has been appointed consisting of the representatives of the Revenue, Agricultural and Forest Departments and the members of the District Rural Development Board, Ratnagiri, to investigate the possibility of forming a separate forest Division for the District.

20. The Research and Utilization and the Engineering Circles were reconstituted into the Research and Working Plans Circle and the Utilization and Engineering Circle respectively after redistributing the works of the two Circles and placing the Working Plans Divisions under the control of the former. Accordingly, the co-ordination of the Working Plans became the responsibility of the Research and Working Plans Circle while the subjects Utilization and Timber Supply were under the Conservator of Forests, Utilization and Engineering Circle. A new Sawmill and Wood Preservation Division was also created in the Southern Circle with effect from 1st January 1948 for the control of the Departmental Sawmill and placed under the Conservator of Forests, Utilization and Engineering Circle. The new arrangement was intended for the better control of the subjects concerned.

12. A new system of coupe working was introduced during the year, by which co-operative Societies, generally of the forest coupe workers, took up the working of the forest coupes for mutual benefit. This system did away with the profits being appropriated by the capitalist coupe contractors.

Eighteen coupes were thus given out to workers co-operative Societies for charcoal production. A committee was also appointed to organize and to assist the Co-operative Societies of forest labourers and to co-ordinate their working, to provide for their supervision and to plan for undertaking exploitation of forest areas as well as for starting allied industries by or on behalf of the Co-operative Societies.

(Signed) E. T. C. VAS,
Chief Conservator of Forests,
Province of Bombay.

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ANNUAL FORM NO. 111 (PART I).

*Area of Reserved and Protected Forests in charge
of the Forest Department, 1947-48.*

ANNUAL FORM NO. 111 (PART I).—Area of Reserved and

Division	Civil District or Territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1947	
			Acres	Equivalent in square miles
1	2	3	4	5
NORTH EASTERN CIRCLE.				
East Nasik ...	Nasik ...	Reserved ...	434,242	679
	Do. ...	Protected ...	2,629	4
	Do. ...	Reserved ...	219,726	343
West Nasik ...	Do. ...	Protected ...	56,169	88
	Ahmednagar ...	Reserved ...	(b) 124,327	195
East Khandesh	Do. ...	Protected ...	(b) 6,652	10
	East Khandesh ...	Reserved ...	487,461	761
West Khandesh	Do. ...	Protected ...	.....	.....
	West Khandesh ...	Reserved ...	436,731	682
West Khandesh Sub- Division.	Do. ...	Protected ...	.....	.....
	West Khandesh ...	Reserved ...	499,953	781
Total, North Eastern Circle.	Do. ...	Protected ...	.....	.....
	Reserved ...	.....	2,203,499	3,441
NORTH WESTERN CIRCLE.				
Panch Mahals	Broach and Panch Mahals	Reserved ...	199,977	313
		Protected ...	.....	.....
North Thana ...	Thana ...	Reserve ...	229,990	359
	Do. ...	Protected ...	2,206	4
East Thana ...	Thana ...	Reserved ...	923,235	347
	Do. ...	Protected ...	.....	.....
West Thana ...	Nasik ...	Reserved ...	53,636	84
	Do. ...	Protected ...	.....	.....
Surat Sub-Division	Thana ...	Reserved ...	216,111	350
	Do. ...	Protected ...	7,791	12
Do. ...	Poona ...	Reserved ...	2,599	4
	Do. ...	Protected ...	.....	.....
Do. ...	Surat ...	Reserved ...	50,698	79
	Do. ...	Protected ...	1,267	2
Do. ...	Nasik ...	Reserved ...	13,755	21
	Do. ...	Protected ...	.....	.....
Total, North Western Circle	Reserved ...	.....	958,991	1,545
	Protected ...	.....	11,264	15

Protected Forests in charge of the Forest Department, 1947-48.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1948		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
.....	2	434,240	879	Sq. M.	.....	Sq. M.	2
.....	2,629	4	.....	.....	.....	.....
.....	2	219,794	343	.....	.....	.....	.....
.....	56,169	88	.....	.....	.....	.....
18	(a) 12	124,393	194	.....	.....	.....	(a) Errors corrected.
(a) 80	6,736	10	.....	.....	.....	(b) Includes an area of 1105 acres submerged in Bhandar-dara lake and of 110 acres used for roads which have been transferred to the Public Works Department.
.....	487,461	762	.....	.....	.....	.....
.....	436,731	682	.....	.....	.....	.....
.....	499,952	781	.....	.....	.....	.....
.....
18	15	2,202,801	3,441	3,309	.....	.....	132
50	65,534	102	102	.....	.....	.....
.....	15	199,962	313	313	.....	.....	.....
.....
.....	229,890	369	357	.....	.....	2
.....	2,306	4	4	.....	.....	.....
.....	222,235	347	347	.....	.....	.....
.....
.....	53,626	84	54	.....	.....	.....
.....
.....	216,111	338	338	.....	.....	.....
.....	7,791	12	12	.....	.....	.....
.....	2,599	4	4	.....	.....	.....
.....
.....	50,698	79	79	.....	.....	.....
.....	1,267	2	2	.....	.....	.....
.....	13,755	21	21	.....	.....	.....
.....
.....	15	988,976	1,545	1,543	.....	.....	2
.....	11,264	18	18	.....	.....	.....

ANNUAL FORM NO. 111 (PART I).—Area of Reserved and

Division	Civil District or Territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1947	
			Acres	Equivalent in square miles
1	2	3	4	5
CENTRAL CIRCLE				
Belgaum	Belgaum	Reserved	444,930	693
	Do.	Protected	12	.....
	Kanara	Reserved	230,916	361
	Do.	Protected	.....	.....
Kolaba	Kolaba	Reserved	279,321	433
	Do.	Protected	22,443	35
	Poona	Reserved	6,529	10
	Do.	Protected	.....	.....
Satara	Rainagiri	Reserved	2,271	4
	Do.	Protected	.....	.....
Satara	Satara	Reserved and Leased.	331,003	515
	Do.	Protected	643	1
Poona	Poona	Reserved	233,601	363
	Do.	Protected	.....	.....
	Ahmednagar	Reserved	290	.....
Total, Central Circle		Reserved and Leased.	1, 28,861	2,369
		Protected	23,098	36
SOUTHERN CIRCLE.				
Kanara, N. D.	Kanara	Reserved	335,001	517
Kanara, E. D.	Do.	Reserved	680,152	1,053
Kanara, W. D.	Do.	Reserved	682,539	1,057
	Do.	Protected	2,366	4
Dharwar-Bijapur	Dharwar	Reserved	184,648	289
	Bijapur	Reserved	154,862	240
Total, Southern Circle.		Reserved	2,037,502	3,134
		Protected	2,366	4
Grand Total, Province of Bombay.		Reserved	6,757,833	10,338
		Protected	102,182	158

APPENDICES

Protected Forests in charge of the Forest Department, 1947-48—contd.

Added during the year	Excluded or transferred to other heads	Area on 31st March 1948		Tripartite classification			Remarks	
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves		
6	7	8	9	10	11	12	13	
		444,930	695	Sq. M. 645	Sq. M. 50	Sq. M.		
		12	.....	.....	.....	.....
	37	230,789	361	361	.....	.....
		279,221	435	417	15	4		
	3	22,440	35	35	.....	.....
		6,529	10	10	.....	.....
		2,271	4	4	.....	.....
32	298	330,942	517	517	.....	.....
		643	1	1	.....	.....
		233,601	365	347	18	.....	
		290	.....	.....	.....	.....
32	320	1,528,573	2,358	2,301	53	4		
	3	33,095	35	35	.....	.....
47	1	335,066	523	523	.....	.....
(a) 1,660	(a) + 1,641		680,120	1,063	786	277	
.....	17		689,747	1,067	760	307	
.....	(a) + 15		2,366	4	4	
.....	92		184,339	288	243	37	8	
.....	319		154,803	242	201	38	3	
.....	50							
1,707	2,144	3,037,065	3,183	3,513	659	11		
		2,366	4	.....	4	.....	
1,757	2,495	6,757,115	10,557	9,865	742	149		
80	3	102,259	160	156	4	.....	

ANNUAL FORM NO. 111 (PART II).—Area of Reserved and

Division	Civil District or Territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1947	
			Acres	Equivalent in square miles
1	2	3	4	5
NORTH EASTERN CIRCLE.				
East Nasik	Nasik	Reserved	19,803	31
	Ahmednagar	Reserved	8,117	13
West Nasik	Nasik	Reserved	7,793	12
	Ahmednagar	Reserved	64,060	100
East Khandesh	East Khandesh	Reserved	23,804	37
West Khandesh	West Khandesh	Reserved	7,951	13
West Khandesh Division.	Sub- Do.	Reserved	72,359	113
Total, North Eastern Circle.		Reserved	204,067	319
		Protected	.....	.....
NORTH WESTERN CIRCLE.				
North Thana	Thana	Protected	86,350	135
East Thana	Thana	Protected	65,025	100
	Nasik	Reserved	273	.....
West Thana	Thana	Protected	73,474	115
Surat Sub-Division	Nasik	Reserved	8,108	13
	Ahmedabad	Reserved	8,634	13
Total, North Western Circle.		Reserved	17,010	26
		Protected	221,749	352

APPENDICES

Protected Forests in charge of the Revenue Department, 1947-48.

Added during the year	Excluded or transferred to other boards	Area on 31st March 1948		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
				Sq. M.	Sq. M.	Sq. M.	
.....		19,993	31	.....	31	.....
.....	6	8,111	13	.....	13	.....
.....		7,793	12	.....	10	2	
.....		64,060	100	.....	100	.....
.....		29,904	37	.....	37	.....
.....		7,951	13	.....	13	.....
.....		72,859	113	.....	113	.....
.....	6	204,061	319	.....	317	2	
.....		
.....	17	86,233	135	.....	135	.....
.....		65,025	102	.....	102	.....
.....		273	.....	.....	.....	.....
.....	46	73,428	115	.....	115	.....
.....		8,103	13	.....	.....	13	
.....		8,634	13	.....	.....	13	
.....		17,010	26	.....	.....	26	
.....	63	221,636	352	.....	352	.....

ANNUAL FORM No. 111 (PART II).—Area of Reserved and Protected

No	Division	Civil District or Territory (separate figures should be given for each District)	Kind of Forest	Area on 1st April 1947	
				Acres	Equivalent in square miles
1		2	3	4	5
CENTRAL CIRCLE.					
Belgaum	...	Belgaum	Reserved	919	1
		Kanara	Protected	3,594	6
Kolaba	...	Kolaba	Reserved	8,488	13
		Do.	Protected	24,442	38
		Ratnagiri	Reserved	9,800	15
Poona	...	Poona	Reserved	158,127	247
Satara	...	Satara	Reserved	117,925	184
Ahmednagar Sholapur.	and	Ahmednagar	Reserved	309,161	483
		Sholapur	Reserved	94,639	148
Total, Central Circle			Reserved	693,058	1,091
			Protected	28,438	44
SOUTHERN CIRCLE.					
Kanara, N. D.	...	Kanara	Protected	2,371	4
Kanara, E. D.	...	Do.	Protected	116,170	182
		Do.	Protected	8,670	13
Kanara, W. D.	...	Do.	Reserved	6,560	10
		Dharwar	Reserved	52,941	83
Bijapur	...	Bijapur	Reserved	18,362	29
Total, Southern Circle			Reserved	77,863	122
			Protected	137,111	199
Grand Total, Province of Bombay.			Reserved	936,018	1,558
			Protected	380,296	695

APPENDICES

Forests in charge of the Revenue Department, 1947-48—contd.

Added during the year	Excluded or transferred to other head	Area on 31st March 1948		Tripartite classification			Remarks
		Acres	Equivalent in square miles	Forest proper	Pasture reserves	Fuel and fodder reserves	
6	7	8	9	10	11	12	13
				Sq. m.	Sq. m.	Sq. m.	
.....	.....	919	1	.....	1	.....
.....	.....	3,994	6	.....	6	.....
.....	.....	8,485	13	.....	13	.....
.....	4	24,438	38	.....	33	.....
.....	.....	9,809	15	.....	15	.....
.....	.....	158,127	247	.....	247	.....
.....	74	117,851	184	.....	180	4	
.....	.....	309,161	483	.....	453	.....
.....	217	94,852	143	.....	145	.....
.....	321	698,737	1,091	.....	1,027	4	
.....	4	28,432	44	.....	44	.....
(*) 19	.....	2,590	4	.....	4	.....	(c) Errors corrected.
.....	1	116,169	182	.....	182	.....
.....	.....	8,570	13	.....	13	.....
.....	.....	6,560	10	.....	10	.....
.....	.....	54,941	83	.....	83	.....
.....	85	18,277	29	.....	22	.....
.....	86	77,778	122	.....	122	.....
19	1	127,129	199	.....	169	.....
.....	413	997,606	1,518	.....	1,526	31	
19	63	380,247	595	.....	565	.....

FORM No. 115.—Progress made in Working

Division	Area under sanctioned Working Plans					At close of year	Plans under preparation
	1 At commencement year	2 Added during year	3 Deducted during year	4 Actual area	5 Percentage of total forest area (as shown in column 10)			6 Area Work
NORTH EASTERN CIRCLE.							
<i>Reserved Forests in charge of the Forest Department.</i>							
East Nasik	679	...	...	679	100	...
West Nasik	(a) 537	...	...	537	100	...
East Khandesh	(a) 758	...	...	758	98	...
West Khandesh	680	...	...	680	100	...
West Bhar. Nash Sub-Division	524	...	...	524	67	556 (e)
Total of Reserved Forests in charge of the Forest Department.	3,175	...	...	3,175	92	256
<i>Protected Forests in charge of the Forest Department.</i>							
East Nasik	...	...	...	...	...	...
West Nasik	88	...	...	88	90	...
Total of Protected Forests in charge of the Forest Department.	88	...	...	88	16	...
Total North Eastern Circle	3,263	...	...	3,263	92	256
NORTH WESTERN CIRCLE							
<i>Reserved Forests in charge of the Forest Department.</i>							
Panchn Mahals	803	...	...	803	99	4
North Thana	359	...	...	359	100	...
East Thana	431	...	...	431	100	...
West Thana	342	...	(100) 3	37	100	...	
Barrat Sub-Division	99	...	...	99	100	...
Total of Reserved Forests in charge of the Forest Department.	1,934	...	5	1,965	100	4	
<i>Protected Forests in charge of the Forest Department.</i>							
North Thana	4	...	...	4	130	...
West Thana	22	...	...	12	100	...
Barrat Sub-Division	...	...	...	...	...	...
Total of Protected Forests in charge of the Forest Department.	16	...	...	16	69	...

Plans during the year 1947-48.

not under ing Plans		Total forest area in Form No. 57, Part I (Total of columns 6, 7, 8 and 9)	Revision			Expenditure on Working Plans during the year	Remarks
Plans not under preparation			Due or required	In progress at end of year	Revised plans sanctioned during year		
Required at pre- sent	Not required at present						
8	9	10	11	12	13	14	
Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	
...	...	679	...	...	...	.....	(a) Difference due to rounding.
...	...	637	(b) 187	...	...	.....	(b) Area of Penint and a joining forests.
...	(c) 4	763	...	(g) 250	...	55	(c) Area afforested in scrub forest.
...	(d) 2	662	...	(h) 232	...	.....	(d) Area afforested in Taloda.
...	(f) 1	751	...	(i) 113	...	.....	(e) Area of Sani, Pimpalner and Daulia scrub.
...	7	3,441	157	650	...	55	(f) Area afforested in Shirpur Range.
...	...	...	...	...	...	.....	(g) The following areas in—
4	...	4	...	...	...	.....	4 0 U. B. auditor st.
...	10	98	...	...	...	.....	40 0 East. Khandash.
4	10	102	...	...	...	.....	23 0 East. Khandash.
4	17	3,543	157	640	...	55	239 0 Hornb and Jaumber Teak.
...	...	...	...	...	...	.....	(h) 171 0 Nawapur.
...	...	...	...	...	...	.....	Nawapur forest.
...	...	...	...	...	...	.....	52 0 De mogra Reserve.
...	...	...	...	...	...	.....	9 0 Umarpata Reserve.
...	...	...	...	...	...	.....	22 0
...	...	...	...	...	...	.....	(i) 107 0 Daulia Pimpalner
...	...	...	...	...	...	.....	Aujan
...	...	...	...	...	...	.....	12 0 Umarpata Reserve.
...	...	...	...	...	...	.....	11 0
...	...	313	...	(k) 309	...	.....	(j) Area of Vesi-Vardi in
...	...	859	...	353	...	475 12 1	Shirdi forest.
...	...	431	...	(l) 431	...	255 15 0	(k) Area of Patch Jabals
...	...	337	...	337	...	1,068 4 0	working plan.
...	(j) 1	100	...	(m) 99	...	120 0 6	(l) Area of Thana working
...	1	1,540	...	1,535	...	2,19 15 9	plan.
...	...	4	...	...	...	.....	(m) Area of Protected forests in
...	...	12	...	...	...	.....	Regativhir Island.
(n) 2	...	2	...	...	...	.....	(n) Error corrected as the
2	...	18	...	...	...	.....	total area of 345 sq. miles is
...	...	...	...	...	...	.....	inclusive of 5 sq. miles be-ong-
...	...	...	...	...	...	.....	ing to the Bombay Municip-
...	...	...	...	...	...	.....	ality.

FORM NO. 115.—Progress made in Working

Division	Area under sanctioned Working Plans				At close of year		Area Work
	1	2	3	4	5	6	
	At commencement of year	Added during year	Deducted during year	Actual area	Percentage of total forest area (as shown in column 10)	Plans under preparation	
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Percent.	Sq. m.	
NORTH WESTERN CIRCLE							
<i>—COHDA.</i>							
<i>Protected Forests in charge of the Revenue Department.</i>							
North Thana	135	...	...	135	100	...	...
East Thana	102	...	...	102	100	...	...
West Thana "	115	...	...	115	100	...	...
Total of Protected Forests in charge of the Revenue Department.	352	...	...	352	100	...	...
<i>Forest belonging to the Bombay Municipality.</i>							
Total, North Western Circle ..	1,713	...	5	1,308	100	4	...
CENTRAL CIRCLE.							
<i>Reserved Forest in charge of the Forest Department.</i>							
Belgaum	419	...	...	419	40	...	...
Kolaba	434	...	...	434	96	...	...
Bahara	493	...	1	492	100	...	...
Poona	383	...	...	373	98	...	...
Total of Reserved Forest in charge of the Forest Department.	1,709	...	1	1,708	73	2	...
<i>Protected Forests in charge of the Forest Department.</i>							
Kolaba ... ..	...	...	...	...	.....	...	...
Bahara	1	...	...	1	100	...	...
Total of Protected Forests in charge of the Forest Department.	1	...	...	1	3	...	...
<i>Leased Forest</i>							
Bahara	21	...	...	31	94	4	...
Total Central Circle	1,731	...	1	1,730	71	6	...

Plans during the year 1947-48—contd.

Plans not under preparation		Total forest area in Form No. 61 Part I (Total of columns 6, 7, 8 and 9)	Revision			Expenditure on Working Plans during the year	Remarks
Required at present	Not required at present		Due or required	In progress at end of year	Revised plans sanctioned during year		
Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	15
...	...	135	...	...	...	.....
...	...	102	...	...	...	.....
...	...	115	...	...	...	.....
...	...	352	...	...	...	.....
...	...	5	...	5	...	.....
2	1	1,915	...	1,540	...	2,409 15 9	
637	...	1,066	55(q)	304(r)	...	25,349 0 0	(o) Area afforested.
5,916	...	450	...	434	...	285 0 0	(p) Area taken over from the Revenue Department.
...	...	492	...	...	...	.....	(q) Area of Supa Fuel Reserves and Castle Rock Fuel Supply Working Plan.
...	...	365	...	...	...	.....	(r) Area (1) :- (i) Nagargali High Forest Series XIX. (ii) Gokak Range Forest. (iii) Leak Pole and Sandal forests of Nagargali and Khanapur Ranges.
653	...	2,363	55	798	...	25,639 0 0	
...	35	35	...	...	...	.....
...	...	1	...	...	...	.....
...	35	36	...	...	...	.....
...	...	25	...	...	...	.....
553	35	2,424	55	798	...	25,634 0 0	

FORM No. 115.—Progress made in Working

Division.	Area under sanctioned Working Plans					Area Work
	At commencement of year	Added during year	Deducted during year	At close of year		Plans under preparation
				Actual area	Percentage of total for st area (as shown in column 5)	
1	2	3	4	5	6	7
SOUTHERN CIRCLE						
<i>Reserved Forests in charge of the Forest Department.</i>						
Kanara, Northern Division ...	Sq. m. 354	Sq. m. ...	Sq. m. ...	Sq. m. 354	Per cent. 68	Sq. m. ...
Do. Eastern do. ...	409	...	...	409	38	173
Do. Western do. ...	407	...	..	407	38	...
Dharwar-Bijapur do. ...	429	...	...	429	100	...
Total of Reserved Forests in charge of the Forest Department.	1,599	...	Nil	1,599	50	173
<i>Protected Forests in charge of the Forest Department</i>						
Kanara West Division ...	...	...	...	...	.....	..
Total of Protected in charge of the Forest Department.	..	...	...	..	.....	...
<i>Reserved Forests in charge of the Revenue Department.</i>						
Kanara East Division ...	...	...	...	...	.....	73
Dharwar-Bijapur ...	19	...	..	19	100	...
Total of Reserved Forest in charge of the Revenue Department.	19	...	...	19	21	73
Total, Southern Circle ...	1,618	—	Nil	1,618	49	246
Grand Total, Province of Bombay.	8,528	...	6	8,522	76	613

Plans during the year 1947-48—concl'd.

Plans not under preparation		Total forest area in For. No. 51 Part 1 (Total of columns 6, 7, 8 and 9)	Revised			Expenditure on Working Plans during the year	Remarks
Plans not under preparation at present	Plans not under preparation at present		Due or required	In progress at end of year	Revised plans sanctioned during year		
8	9	10	11	12	13	14	15
Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	
169	...	523	110(s)	935(t)	(6) Areas of:— (i) Hullyal Teak Pole. (ii) Nagzari Valley, Kalinadi Kaner Slopes Series XI-A. (iii) Gund Working Circle. (iv) Sandalwood forests of Dharwar-Bijapur Dn and Halwal Mundgod Ranges. (7) Area of Bhangwal High Forests and old series I to VII. (8) Areas of— (i) Mundgod Teak Forests. (ii) Sandal Forests of Dharwar-Bijapur. (iii) Sivtown Fuel supply. (9) Areas of (i) Yellambli Sonda High Forests. (ii) Yellapur Mundgod High Forests. (iii) Kaner Slopes Forests Block XVII. (iv) Kalinadi Slopes addition of compartments 32-A.
481	...	1,063	61(u)	345(v)	...	...
660	...	1,067	299	109	...	...
101	...	530	430	...	...	...
1,411	...	3,123	911	689	...	...
...	4	4	...	...	...	...
...	4	4	...	...	...	...
...	...	73	...	...	...	...
...	...	(w) 19	19	...	...	...
...	...	92	19	...	...	...
1,411	4	3,279	930	689	...	1,20,768 1 6	
2,070	87	11,161	1,173	3,697	...	1,48,856 1 3	

(w) Included in Sandalwood working Plans for working sandalwood trees.

FORM No. 118.—Area of Forest Tracts protected from fires during 1947-48.

Circle and Division	Area in square miles		Percentage of forests under fire protection to total area of reserves	Percentage of failures to area attempted		Remarks
	Attempted	Protected		Average of past 5 years	During the year	
1	2	3	4	5	6	7
NORTH EASTERN CIRCLE.						
East Nasik ...	663	673	100 per cent.	1.27	1.5	
West do. ...	635	624	100 ..	1.05	1.7	
East Khandesh ..	762	692	100 ..	18.71	9.2	
West do. ...	682	656	100 ..	8.70	3.8	
West Khandesh Sub Division.	781	693	100 ..	10.70	12.5	
Total, North Eastern Circle.	2,543	2,328	100 ..	8.09	6.0	
NORTH WESTERN CIRCLE.						
Panch Mahals ...	313	278	100 ..	10.8	11.2	
North Thana ...	363	348	100 ..	2.7	4.1	
East do. ...	431	410	1.0 ..	5.2	4.9	
West do. ...	354	337	100 ..	4.9	4.8	
Surat Sub-Division ..	112	93	100 ..	3.4	8.8	
Total of North Western Circle.	1,543	1,466	100 per cent.	5.4	6.2	
CENTRAL CIRCLE.						
Belgaum ...	1,056	1,047	100 per cent.	5.9	0.9	
Kolaba ...	485	468	100 ..	1.3	0.8	
Poona ...	365	359	100 ..	4.0	1.6	
Satara ...	518	514	100 ..	1.8	3.5	
Total of Central Circle.	2,424	2,388	100 ..	3.3	1.5	
SOUTHERN CIRCLE.						
Kanara. N. D. ...	75	74	14.3	1.6	1.8	
Do. E. D. ...	128	126	12.0	4.9	1.6	
Do. W. D. ...	75	73	7.0	2.6	2.7	
Dharwar-Bijapur ...	520	516	100.0	2.4	2.6	
Total of Southern Circle.	808	789	26.4	2.8	2.4	
Grand Total Province of Bombay.	8,338	7,971	77.8	6.0	4.4	

FORM No. 119.—*Causes of Forest Fires*
during 1947-48.

Circle and Divisions.	Fires originating in departmental fire conservancy operations.		External fires crossing the fire traces	
	No. of fires	Area burnt acres	No. of fires	Area burnt acres
1	2	3	4	5
NORTH EASTERN CIRCLE.				
East Nasik		50	1	61
West do.				
East Khandesh			1	3.0
West do.				
West Khandesh Sub-Division				
Total, North Eastern Circle ...	1	50	2	360
NORTH WESTERN CIRCLE				
Pouch Mahals				
North Thang				
East do.	2	70	4	315
West do.				
Surat Sub-Division				
Total, North Western Circle ...	2	70	4	2.7
CENTRAL CIRCLE.				
Belgaum				
Kolaba				
Poona				
Satara			1	(
Total, Central Circle ...			1	
SOUTHERN CIRCLE.				
Kanara, N. D.				
Do. E. D.	2	114		
Do. W. D.				
Dharwar Bijapur				
Total, Southern Circle ...	2	114		
Grand Total, Bombay Province ..	5	234	7	

Forest Fires during 1947-48.

Fires beginning inside the reserved or fire-traced areas				Fires due to causes unknown		Total	
Owing to carelessness of outsiders or due to accident		Owing to intentional or malicious firing		No. of fires	Area burnt acres	No. of fires	Area burnt acres
No. of fires	Area burnt acres	No. of fires	Area burnt acres	No. of fires	Area burnt acres	No. of fires	Area burnt acres
6	7	8	9	10	11	12	13
.....	.....	.....	.....	71	5,592	73	6,702
2	110	.....	.....	65	5,916	67	7,026
17	7,769	.....	.....	149	36,747	158	44,836
.....	.....	.....	.....	62	16,850	52	16,850
2	560	3	75	131	62,103	136	62,768
21	8,459	3	75	459	1,89,208	486	1,38,152
210	22,393	.....	.....	.....	.....	210	22,393
6	875	.....	.....	112	9,021	118	9,396
8	515	.....	.....	87	12,525	101	13,327
.....	.....	.....	.....	102	11,112	102	11,112
1	*	.....	.....	29	5,762	30	5,762
225	23,283	.....	.....	330	78,420	561	61,990
22	6,046	.....	.....	.....	.....	22	6,046
9	943	.....	.....	138	10,409	147	10,655
93	1,394	.....	.....	56	2,138	61	3,532
100	2,583	.....	.....	.....	.....	101	2,589
154	10,296	.....	.....	195	12,543	351	22,849
.....	.....	.....	.....	43	26,286	43	26,286
6	597	.....	.....	7	461	15	972
4	39	.....	.....	32	1,313	36	1,352
.....	.....	.....	.....	52	8,885	52	8,885
10	486	.....	.....	134	36,945	146	37,495
410	42,474	3	73	1,119	2,17,113	1,544	2,60,479

The figures in columns 12 and 13 include one contract area case and the area burnt respectively.

* Less than ½ acres.

FORM NO. 120.—Area closed and open to grazing during 1947-48.

Division	Area closed to grazing of all animals throughout the year	Area open to grazing throughout the year		Balance, i.e., area open to be grazing for a part of the year (and therefore closed for the remainder)		Total
		Of all animals	Of non-browsers only	Of all animals	Of non-browsers only	
1	2	3	4	5	6	7
NORTH EASTERN CIRCLE.						
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.
East Nasik	58	107	535	29	...	737
West do.	28	222	484	...	11	745*
East Khandesh	129	55	443	...	179	799
West Khandesh	59	13	523	...	...	695
West Khandesh Sub-Division.	167	132	552	43	...	894
Total, North Eastern Circle...	441	529	2,635	72	183	3,860
NORTH WESTERN CIRCLE.						
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.
Panch Mahals	35	...	259	19	...	313
North Thana	39	135	331	...	...	466
East do.	65	98	369	1	...	533
West do.	24	115	330	...	...	469
Surat Sub-Division	34	15	79	...	...	123
Total, North Western Circle .	190	363	1,368	20	...	1,941
CENTRAL CIRCLE.						
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.
Belgaum	109	8	946	...	...	1,063
Kolaba	35	102	410	...	4	551
Poona	50	248	255	...	29	612
Satara	32	184	451	...	25	703
Ahmednagar and Sholapur ... ..	...	631	...	...	...	631
Total, Central Circle ...	226	1,173	2,102	...	58	3,559
SOUTHERN CIRCLE.						
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.
Kanara, N. D.	14	4	509	...	...	527
Do. E. D.	32	1,213	...	...	...	1,245
Do. W. D.	9	1,085	...	...	...	1,094
Dharwar-Bijapur	56	132	454	...	...	642
Total, Southern Circle ...	111	2,434	963	...	...	3,506
Grand Total, Province of Bombay ...	968	4,499	7,068	92	241	12,868

* Excluding 3 square miles submerged in Bhandardara Lake.

FORM No. 121.—*Return of Grazing in the State Forests
during 1947-48.*

FORM No. 121.—Return of Grazing in

Circles and Division	Grazing					
	At Full Rates					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Fees received
1	2	3	4	5	6	7
NORTH EASTERN CIRCLE.	No.	No.	No.	No.	No.	Rs.
East Nasik ...	18	199	.....	.....	.....	917
West do. ...	.....	.....	.....	.....	.....	.....
East Khandesh ...	216	1,798	.....	.....	.....	2,014
West do. ...	.....	123	.....	.....	.....	143
West Khandesh Sub-Division	2,323	5,054	.....	.....	238	7,615
Total, North Eastern Circle.	2,557	7,174	.....	.....	238	9,969
NORTH WESTERN CIRCLE.						
Panch Mahals ...	198	367	.....	.....	.....	556
North Thana ...	12	.....	.....	.....	.....	12
East do. ...	10	147	.....	.....	.....	157
West do. ...	.....	.....	.....	.....	.....	.....
Surat Sub-Division ...	.....	.....	.....	.....	.....	.....
Total, North Western Circle.	220	534	.....	.....	.....	754

the State Forests during 1947-48—contd.

free							Grand Total of value at full rates
During pleasure of Government or otherwise than under Settlement						Total value of fees at full rates col 26 + col. 27	
Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates		
21	22	23	24	25	26	27	28
No.	No.	No.	No.	No.	Rs.	Rs.	Rs.
13,870	107,781	93,395	.....	1,815	1,45,459	1,46,459	1,46,676
12,833	109,615	7,372	.....	295	1,24,489	1,24,489	1,24,489
65,923	134,082	522	.....	700	2,01,037	2,01,037	2,03,051
13,928	64,245	.....	.....	427	77,900	77,900	73,023
21,283	95,007	65,618	.....	1,472	1,31,416	1,34,416	1,42,031
1,25,936	5,11,474	1,67,517	.....	4,712	6,84,301	6,81,301	6,94,270
15,199	56,319	.....	.....	17,650	91,097	91,097	91,582
13,923	59,413	.....	.....	.....	72,736	72,736	73,964
52,663	1,02,123	.....	.....	.....	1,64,786	1,64,786	1,64,943
22,171	78,309	867	.....	610	1,02,557	1,02,557	1,02,657
3,046	18,331	.....	.....	.....	21,437	21,437	21,437
115,931	3,17,556	867	.....	18,260	4,52,613	4,52,613	4,54,573

(4) Remark as on page 21.

FORM No. 121.—Return of Grazing in

Division	Grazing					
	At Full Rates					
	Buffaloes	Cows and Bullocks	Goats and Sheep	Camels	Other animals	Fees received
1	2	3	4	5	6	7
CENTRAL CIRCLE	No.	No.	No.	No.	No.	Rs.
Nelgaum	105	61	.....	.....	.....	16
Kolaba	.....	.....	.....	.....	.....	.....
Poona	18	50	.....	.....	.....	57
Satara	.....	.....	357	.....	.....	80
Total, Central Circle...	123	101	357	.....	.....	312
SOUTHERN CIRCLE						
Kanara N. D.	.....	.....	.....	.....	.....	.....
Do. E. D.	.....	.....	.....	.....	.....	.....
Do. W. D.	.....	.....	.....	.....	.....	.....
Dharwar-Bijapur	.....	103	.....	.....	.....	103
Total, Southern Circle...	.....	103	.....	.....	.....	103
Grand Total, Province of Bombay.	2,900	7,911	357	.....	238	11,112

FORM No. 121.—Return of Grazing in

Division	Grazing					
	By right under Settlement					
	Buffaloes	Cows and Rullocks	Goats and Sheep	Camels	Other animals	Value of fees at full rates
1	15	16	17	18	19	20
	No.	No.	No.	No.	No.	Rs.
CENTRAL CIRCLE						
Belgaum ...	.....	.....	.....	.....	.....	.....
Kolaba ...	30	1,141	.....	.....	.....	1,621
Poona ...	.....	.....	.....	.....	.....	.....
Satara ...	14	40	.....	.....	.....	54
Total, Central Circle...	394	1,181	.....	.....	.....	1,575
SOUTHERN CIRCLE						
Kanara N. D. ...	.....	.....	.....	.....	.....	.....
Do. S. D. ...	.....	.....	.....	.....	.....	.....
Do. W. D. ...	.....	.....	.....	.....	.....	.....
Dharwar-Bijapur ...	.....	.....	.....	.....	.....	.....
Total, Southern Circle...	.....	.....	.....	.....	.....	.....
Grand Total, Province of Bombay.	394	1,181	.....	.....	.....	1,575

the State Forests during 1947-48—concl'd.

free

During pleasure of Government or otherwise than under Settlement						Total value of fees at full rates. col. 26 + col. 28	Grand Total value at full rates
Buffaloes	Cows and Bullocks	Goats and sheep	Camels	Other animals	Value of fees at full rates		
21	22	23	24	25	26	27	28
No.	No.	No.	No.	No.	Rs.	Rs.	Rs.
21,862	30,339	17,509	.....	.....	77,328	77,328	77,994
12,575	31,811	120	.....	129	44,548	46,066	49,069
64,246	7,08,128	38,484	.....	36,277	3,18,272	3,18,272	3,18,476
13,470	36,807	17,823	.....	30	54,763	54,817	64,906
1,13,56	3,7,066	74,935	.....	36,486	4,55,411	4,56,386	4,97,445
4,991	22,157	26	.....	2	27,156	27,156	27,156
18,508	66,280	1,727	.....	2	85,222	85,252	85,222
21,676	66,280	1,308	.....	.....	1,22,597	1,22,597	1,22,597
63,106	97,564	56,324	.....	.....	1,19,061	1,19,061	1,19,164
1,11,221	2,27,905	29,334	.....	4	3,54,036	3,54,036	3,54,139
4,66,501	13,84,019	3,02,704	.....	59,412	19,55,711	19,67,226	19,99,777

FORM NO. 123.—*Outturn (in thousand cubic feet, solid) of Timber*

Division.	Timber					
	Government.	Purchasers.	Free Grantee.	Right and privilege holders.	Total.	Government.
1	2	3	4	5	6	7
NORTH EASTERN CIRCLE.						
Reserved Forest	20	3,130	7	Nil.	3,157	457
Protected Forest ... ..	...	133	...	...	135	...
Total, North Eastern Circle ...	20	3,263	7	...	3,292	477
NORTH WESTERN CIRCLE.						
Reserved Forest	272	1,835	18	...	2,125	179
Protected Forest	1	86	3	...	90	...
Total, North Western Circle ...	273	1,921	21	...	2,215	179
CENTRAL CIRCLE.						
Reserved Forest	131	70	8	13	222	2,224
Protected Forest ... ..	...	Nil.	...	...	...	...
Total, Central Circle ...	131	70	8	13	222	2,224
SOUTHERN CIRCLE.						
Reserved Forest	1,307	1,271	54	54	2,685	679
Protected Forest ... ..	...	Nil.	...	...	...	...
Total, Southern Circle ...	1,307	1,271	54	54	2,685	679
Grand Total, Province of Bombay ...	1,731	7,158	90	67	9,045	4,229

N. B.—Charcoal should be shown by its equivalent in fuel, the quantity of wood consumed in producing it being entered in Cubic feet, Solid.
In remarks Column of this form it should be shown which of the figures entered in it are actuals and which are only estimates, it being also noted in the latter case how figures have been arrived at.

and Fuel during the year 1947-48 and Agency of Exploitation.

Fuel				Total Outturn							Remarks
Purchasers	Free Grants	Right and privilege holders	Total	Timber and fuel	Sandalwood		Rejected Sandalwood				
					Billets, roots, etc.		Trees, billets, branches, roots, chips etc.				
					Scented	Unscented	Number.	C.ft.	Cartloads		
10	11	12	13	14	15	16	17	18			
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	T. C. Q. lb.	T. C. Q. lb.			No.		
3 983	...	6,505	11,055	14,212	.....	...	...	...	...	...
...	135	.....	...	...	...	...	...
3 953	...	6,593	11,055	14,317	.....	...	...	...	...	...
9,597	...	4,874	14,450	15,575	.....	...	...	...	...	...
873	...	252	925	1,015	.....	...	...	...	...	...
10,270	...	4,925	15,375	17,090	.....	...	...	...	...	...
5,961	...	2,341	11,226	12,070	40 13 2 23	...	...	...	...	72*
...	Nil.	.....	...	...	...	...	...
5,921	...	2,411	11,225	12,079	40 13 2 23	...	...	...	...	72*
5,201	...	2,133	8,063	10,749	158 1 0 10	...	(a) 379 (b) 2,917 (c) 3,252 (d) 4	...	(e) 211	...	
...	Nil.	.....	...	...	...	...	...
5,021	...	2,133	8,063	10,749	158 1 0 10	...	(a) 19 (b) 2,917 (c) 3,252 (d) 4	...	(e) 211	...	
25,425	...	16,045	45,719	54,765	193 14 3 5	...	6,532	...	283	...	

* Branch wood and chips.

(a) Rejected trees.
(c) Rejected br. chips.
(e) Rejected Chips.

(b) Rejected Roots.
(d) Rejected Stumps.

FORM No. 124.—*Outturn of Minor Forest Produce during the year 1947-48.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Government Agency		By purchasers		By Free-grants		By Right holders			
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
NORTH EASTERN CIRCLE										
<i>Reserved Forest.</i>										
Bamboos	125		31,392		312					31,629
Grass and grazing			2,17,314				5,18,672			7,36,016
Stones, earth, etc.	22		1,434		4,033		12,611			15,369
Thorns			3,513		34		16,567			30,114
Karvi			58		4		4,532			4,624
Anjan leaves			7,417							7,417
Apta Tembburni leaves			27,103							27,103
Tarward Bark			15,452							15,452
Chilbar Bark			2,607							2,607
Manure			708							708
Kilchan			2,554							2,554
Ghatbor Fruit			8,733				892			9,615
Hirda			1,543							1,543
Rosha Grass			12,503							12,503
Mhowra flowers			1,059				400			1,459
Supli leaves			1,769				12,675			14,444
Safal musali			3,050							3,050
Nirgudi Shirali			1,173							1,173
Lac			696							696
Gum			6,596							6,596
Miscellaneous			4,541		247		35,468			40,256
Total of Reserved Forests.	347		3,51,545		4,630		6,01,517			9,58,592
<i>Protected Forests.</i>										
Grass and grazing							68,821			68,821
Miscellaneous							772			772
Total of Protected Forests.							69,593			69,593
Total, North Eastern Circle	347		3,51,545		4,630		6,71,410			10,27,992

FORM No. 124.—*Outturn of Minor Forest Produce during the year 1947-48—contd.*

Description of produce	PRODUCE REMOVED OR UTILIZED.								Total	
	By Govern- ment Agency		By purchasers		By Free- grants		By Right holders		Quantity	Value
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value		
NORTH WESTERN CIRCLE.		Rs.		Rs.		Rs.		Rs.		Rs.
<i>Reserved Forest.</i>										
Bamboos				27,415		831		59,178		67,369
Grass and grazing				30,107				5,16,386		5,46,423
Apiá Temburi leaves				34,978				7,144		42,122
Stones, Sand, etc.				2,926				8,233		11,159
Karvi				1,989				15,752		17,741
Chilbar Bark				3,537						3,537
Palm leaves				3,282						3,282
Babul sticks				1,120						1,120
Gum								603		603
Thorns				135				5,301		5,426
Miscellaneous		64		1,641				27,943		29,648
Total, Reserved Forest		64		1,07,120		831		6,41,455		7,49,510
<i>Protected Forest.</i>										
Bamboos								11,054		11,054
Grass and Grazing								90,640		90,640
Karvi								2,766		2,766
Stones, Sand, etc.								2,000		2,000
Miscellaneous								5,298		5,298
Total, Protected Forest								1,14,777		1,14,777
Total North Western Circle.		64		1,07,120		831		7,56,232		8,64,277

FORM No. 124.—*Outturn of Minor Forest Produce during the year 1947-48—contd.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Govern- ment agency		By purchasers		By free- grants		By Right holders		Quantity	Value
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value		
CENTRAL CIRCLE		Rs.		Rs.		Rs.		Rs.		Rs.
<i>Reserved Forests</i>										
Bamboos	31,394	...	42	...	831	...	32,267
Grass and grazing	57,137	...	421	...	1,29,851	...	1,77,109
Babul pods	5,504	...	...	...	...	...	5,504
Hirda and Shikekat	45,465	...	...	...	...	...	45,465
Apta leaves Tembhurai	4,000	...	...	...	5,450	...	9,450
Tamarind fruit	1,570	...	...	...	...	...	1,570
Oman	74	...	...	...	...	...	74
Karvi	421	...	...	...	5,412	...	5,833
Murum, Stones Earth, etc.	2,853	...	3,056	...	525	...	6,434
Thorns	98	...	8	...	776	...	882
Tarwad Bark	965	...	...	...	...	...	965
Chilbar Bark	4,311	...	...	...	...	...	4,311
Honey and Wax	1,672	...	...	...	7,000	...	8,672
Seed	...	247	...	499	...	...	...	...	...	746
Bandurbi	1,019	...	...	...	...	...	1,019
Canes	1,149	...	...	...	...	...	1,149
Tahal	27,800	...	27,800
Miscellaneous	2,578	...	50	...	10,418	...	13,046
Total, Reserved Forest	...	247	...	1,43,82	...	3,551	...	4,88,063	...	6,35,249
<i>Leased Forests</i>										
Grass and grazing	1,225	...	...	...	...	...	1,225
Miscellaneous	23	...	...	...	...	...	23
Total, Leased Forests	1,249	...	...	...	...	...	1,249
<i>Protected Forests</i>										
Stones, Murum, etc.	225	...	...	...	1,000	...	1,225
Tahal	5,000	...	5,000
Miscellaneous	132	...	...	...	...	...	192
Total, Protected Forests	417	...	...	...	6,000	...	6,417
Total, Central Circle	...	247	...	1,46,748	...	3,557	...	4,94,063	...	6,43,913

FORM NO. 124.—*Outturn of Minor Forest Produce during the year 1947-48—contd.*

Description of produce	PRODUCE REMOVED OR UTILIZED								Total	
	By Government agency		By purchasers		By free-grants		By right holders		Quantity	Value
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value		
SOUTHERN CIRCLE		Rs.		Rs.		Rs.		Rs.		Rs.
<i>Reserved Forests</i>										
Bamboos	3		94,317		922		4,235			99,977
Grass and Grazing			174		22		3,55,741			3,55,937
Canes			1,897				2,651			4,548
Creepers and Karvi			1				729			730
Hirda and Shikakai			7,126				60			7,185
Halmaddi Dhup			38,471							38,471
Honey and wax			4,947							4,947
Halgal seed			6,512							6,512
Metal			418		1,034		370			1,722
Murum, sand and Earth.			219		600		302			1,021
Soppu			11		9		6,560			6,580
Stakes and pegs			523		39		3,076			3,638
Stones			3,386		62		453			4,441
Palms and leaves			129				2,740			2,863
Thorns			486				1,039			1,525
Tumri leaves			6,976		13					6,989
Cinnamon			650							650
Manganese Ores			724							724
Bairi trees			807		12		800			1,619
Miscellaneous	80		2,321		3		19			2,422
Total of Reserved forests.		83	1,70,186		2,456		3,78,675			5,51,400
					<i>Protected Forest.</i>					
					Nil.					
Total, Southern Circle.		83	1,70,186		2,456		3,78,675			5,51,400
<i>Research and Working Plans.</i>										
Miscellaneous		592								592
Grand Total, Presidency.		1,333	7,94,899		11,534		22,00,410			31,08,176

FORM No. 125.—Account of Timber and other produce cut locally or otherwise disposed of

Name of Division	Balance at commencement of the year in forest and sale depots		Received during the year
	1	2	3
NORTH EASTERN CIRCLE.			
	C. ft.	Rs.	C. ft.
East Nasik—			
Teak	443	221	.....
Junglewood	.....	.....	.....
Total	443	221	.....
West Nasik—			
Teak	2,544	1,272	520
Junglewood	1,774	400	3,225
Total	4,318	1,672	3,755
East Khandesh—			
Teak	2,810	2,810	3,581
Junglewood	.....	.....	33
Total	2,810	2,810	3,614
West Khandesh—			
Teak	59,333	1,35,313	2,839
Jungle wood	96	192	1,038
Pre-empted Teak	15,394	76,970	3,048
Pre-empted Junglewood	944	1,888	4,618
Total	75,767	2,14,263	11,542
West Khandesh Sub-Division—			
Teak	.....	.....	784
Total	.....	.....	784
Total Timber	80,524	2,16,586	10,771
Total	2,814	2,480	8,924
Total	83,338	2,19,066	19,695
<i>Firewood.</i>			
Fuel—			
East Nasik	950	10	5,273
West Nasik	97,250	6,078	2,36,602
East Khandesh	1,264	101	84,700
West Khandesh	3,25,173	40,646	21,105
West Khandesh Sub-Division	4,125	83	.....
Total	4,38,762	16,918	3,47,680

collected by Government Agency and brought to depots, sold during the year 1947-48—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depots		Difference in value	
		In favour of the year	Against the year	In favour of the year	Against the year
5	6	7	8	9	10
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
443	103	340	170	.....	51
443	103	340	170	.....	51
3,054	260	2,804	1,402	130	.....
5,009	3,845	1,164	291	.....	109
8,073	4,105	3,968	1,693	130	109
6,391	3,988	2,403	2,403	.....	407
33	33	.....	.....	.....	.....
6,424	4,021	2,403	2,403	.....	407
62,171	17,076	5,095	15,285	.....	1,20,028
1,134	1,134	.....	.....	.....	192
18,442	.....	18,442	92,210	15,240	.....
5,562	3,026	1,936	3,852	1,964	.....
87,309	61,536	25,473	1,11,347	17,204	1,20,220
784	28	756	95	95	.....
784	28	756	95	95	.....
91,295	61,455	29,840	1,11,565	15,465	1,20,486
11,738	8,638	3,100	4,143	1,964	301
1,03,033	70,093	32,940	1,15,703	17,429	1,20,787
6,223	2,050	4,173	42	32	.....
33,552	1,02,600	2,31,252	50,738	44,660	.....
1,004	31,875	54,989	4,327	4,226	.....
246,273	2,46,927	99,351	12,419	.....	28,227
4,125	4,125	.....	.....	.....	83
770,442	3,67,577	3,68,865	67,526	43,913	28,310

FORM No. 125.—Account of Timber and other produce cut locally or otherwise disposed of

Name of Division 1	Balance at commencement of the year in forests and sale depots		Received during the year 4
	2	3	
NORTH EASTERN CIRCLE—contd.			
	C. ft.	Rs.	C. ft.
<i>Charcoal.</i>			
West Nasik	15,000	15,750	31,400
West Khandesh	1,642	1,280	822
Total	16,642	17,030	32,222
Total, Fuel including charcoal	4,45,404	63,945	3,79,902
<i>Minor Forest Produce.</i>			
			Rs.
<i>Bamboos.</i>			
West Nasik ... ..	.....	.....	125
Total ... ..	.....	.....	125
<i>Sandlewood.</i>			
East Nasik ... ..	.....	.....	6
West Nasik ... ..	.....	.....	50
West Khandesh Sub-Division ... ..	.....	.....	22
Total ... ..	.....	.....	108
<i>Other Minor Forest Produce.</i>			
West Khandesh Sub-Division ... ..	.....	.....	222
<i>Drift and Waifwood and confiscated Forest Produce.</i>			
East Nasik ... ..	.....	.....	134
West Nasik ... ..	.....	.....	2,102
East Khandesh ... ..	.....	.....	10
Total ... ..	.....	.....	2,356
		Net difference against	

er collected by Government Agency and brought to depots, sold, during the year 1947-48—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depots		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
46,460 2,464	15,000 2,357	31,400 107	50,393 84	34,643 ...	..... 1,196
48,564	17,357	1,507	50,477	34,643	1,196
8,25,806	4,04,934	4,20,872	1,18,003	83,561	29,506
Rs.	Rs.				
125	125	.....	.....	.....	.....
125	125	.....	.....	.....	.....
6	6	.....	.....	.....	.....
80	80	.....	.....	.....	.....
22	22	.....	.....	.....	.....
103	103	.....	.....	.....	.....
222	222	.....	.....	.....	.....
134	134	.....	.....	.....	.....
2,192	2,192	.....	.....	.....	.....
10	10	.....	.....	.....	.....
2,336	2,336	.....	.....	.....	.....
the year Rs.	49,303 North E	Eastern Circle.			

other Produce cut or collected by Government Agency and brought to of during the year 1947-48—contd.

Total	Disposed of during the year	Balance in hand at close of the year in Forest and Sale Depôts		Difference in value	
				In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
32,091	30,723	1,378	634	.....	416
9,711	3,635	106	54	.....	546
25,302	34,328	1,474	738	.....	962
2,46,474	65,569	1,09,005	45,227	7,778	.....
1,52,210	55,572	1,25,663	15,709	10,363	.....
4,24,714	1,22,141	3,06,573	60,976	18,141	.....
12,941	7,651	5,230	82	455	.....
23,717	11,721	12,193	22,010	13,137	.....
36,858	19,372	17,456	22,592	13,702	.....
5,886	3,619	1,727	564	109	.....
2,761	2,394	387	97	.....	347
8,167	1,653	2,174	951	106	347
10,917	7,697	2,620	2,620	315	.....
89	89	.....	.....	.....	69
10,406	7,756	2,620	2,620	315	69
3,07,209	1,15,399	1,19,910	50,277	9,661	416
2,12,738	74,351	1,38,357	37,870	23,565	951
5,19,947	1,89,680	3,30,267	88,147	32,179	1,277
71,219	65,285	5,934	150	61	...
8,68,117	2,94,787	5,73,370	532	.....	132
1,01,070	65,915	35,105	85	.....	39
33,717	21,944	11,584	182	.....	69
4,362	2,962	1,400	55	22	.....
10,78,575	4,09,982	6,27,593	1,044	81	222

FORM NO. 125.—Account of Timber and depôts, sold locally or otherwise disposed

Name of Division	Balance at commencement of the year in forest and sale depôts		Received during the year
	1	2	3
NORTH WESTERN CIRCLE—contd.			
<i>Charcoal.</i>			
North Thana	5,884	3,540	125
East Thana	1,015	10	6,120
Total ..	6,899	3,550	6,245
Total, Fuel including Charcoal ..	930,021	4,733	1,60,418
<i>Sandalwood.</i>			
Panch Mahals ... ..	.....	.....	.....
<i>Minor Forest Produce.</i>			
<i>Bamboos.</i>			
North Thana ... ..	.....	.....	.....
West Thana ... ..	.....	.....	.....
Surat Sub-Division ... ..	.....	.....	.....
Total ..	.....	.....	.....
<i>Other Minor Forest Produce.</i>			
Panch Mahals ... ..	.....	.....	.....
West Thana ... ..	.....	.....	6
Total ..	.....	.....	.....
<i>Drift and waifwood and confiscated Forest Produce.</i>			
North Thana ... ..	.....	.....	60
East Thana ... ..	.....	.....	41
West Thana ... ..	.....	.....	180
Surat Sub-Division ... ..	.....	.....	.....
Total ..	.....	.....	2,710
CENTRAL CIRCLE.			
Belgaum—			C.F.
Teak	2,07,252	18,36,123	183
Sissam	15,440	1,36,788	102
Junglewood	2,96,918	10,30,721	172
Presumptive Junglewood ... ..	.....	.....	.....
Material purchased from the Supply Department—Junglewood	58,044	1,74,268	.....
Total ..	5,73,264	31,78,000	561

other produce cut or collected by Government Agency and brought to of during the year 1947-48—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depôts		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
5,519	216	5,263	3,480	.....	60
7,165	3,665	3,500	35	25	.....
12,684	3,881	8,803	3,515	25	60
1,91,259	4,54,863	6,34,305	4,509	103	232
.....
Rs.	Rs.	.....	.....	.....	.....
.....
.....
.....
64	64	.....	.....	.....	.....
64	64	.....	.....	.....	.....
.....
90	90	.....	.....	.....	.....
411	411	.....	.....	.....	.....
1,809	1,809	.....	.....	.....	.....
.....
2,340	2,340	.....	.....	.....	.....
Net difference in favour of the year = Rs 80 613 North Western Circle.					
C.ft.	C.ft.	.....	.....	.....	.....
2,25,579	34,982	1,90,595	11,73,411	.....	6,92,712
15,470	903	14,567	83,417	...	4,541
3,16,165	1,65,387	2,10,778	4,89,005	...	5,41,716
17,350	11,091	6,259	6,522	6,522	.....
5,044	8,301	42,313	39,158	.....	75,230
6,25,521	16,953	4,61,184	18,57,234	6,522	13,27,191

FORM No. 125.—Account of Timber and depôts, sold locally or otherwise disposed

Name of Division	Balance at commencement of the year in forest and sale depôts		Received during the year	
	1	2		3	4
CENTRAL CIRCLE—cont'd.				
Kolaba—		C.ft.	Rs.	C.ft.
Teak		22,187	2,219	14,990
Junglewood		2,483	610	47,615
Total ...		24,606	2,829	62,605
Poona—				
Teak		1,753	2,006	15,141
Pre-empted Junglewood ... ..		.....	.....	271
Total ...		1,753	2,006	15,412
Satara—				
Teak ... ..		.....	.....	.....
Junglewood		29	10	931
Total ...		29	10	931
Total, Timber ...	} Teak	2,21,192	18,40,348	48,466
	} Sissium	15,440	1,36,888	30
	} Junglewood	3,54,59	12,05,700	82,09
	Total ...	5,91,671	21,82,845	1,31,115
<i>Firewood.</i>				
Belgaum—				
Belgaum		60,95,102	10,86,320	2,61,274
Belgaum Pre-empted		13,000	2,340	12,13,824
Kolaba		65,217	33,248	47,924
Poona		76,920	18,656	54,473
Satara		1,70,875	19,313	3,25,296
Total ...		63,61,120	11,59,942	19,52,991
<i>Charcoal.</i>				
Belgaum		90,720	66,672	1,67,033
Belgaum Pre-empted ... ..		.....	.....	2,361
Satara		3,141	2,712	61,962
Total ...		93,861	69,584	2,58,356
Total, Fuel including Charcoal ...		64,54,981	12,20,496	22,11,347
<i>Sandalwood.</i>				
Belgaum ... ..		.....	80,218	79,678
Poona ... ..		.....	250	106
Satara ... ..		.....	10	576
Total ...		.....	80,478	80,360
<i>Minor Forest Produce.</i>				
Other Minor Forest Produce—				
Poona ... ..		.....	52	217

other produce cut or collected by Government Agency and brought to
of during the year 1947-48—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forest and sale depôts		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
37,177	14,642	22,535	2,349	130	.....
50,051	48,541	1,513	878	—	232
87,228	63,183	24,045	2,727	130	232
10,594	10,221	673	1,306	.....	610
271	271	.....	.....	.....	.....
17,165	16,492	673	1,346	.....	660
.....
959	659	100	25	15	.....
959	659	100	25	15	.....
2,79,658	62,845	2,13,813	11,57,106	130	6,63,372
15,470	973	14,497	89,217	.....	47,541
4,35,648	1,77,655	2,57,955	5,95,069	6,537	6,17,178
7,30,776	2,44,471	4,86,305	18,61,421	6,667	13,28,091
62,98,382	33,11,955	29,84,427	5,96,885	.....	4,89,435
12,70,824	.....	1,76,824	2,55,365	2,53,025	.....
1,12,611	30,485	82,156	40,800	7,517	.....
1,31,393	849 4	46,409	11,632	.....	7,054
4,56,871	1,45,189	3,51,132	30,800	11,457	.....
83,14,111	3,52,563	47,41,548	9,35,452	2,72,029	4,96,459
2,57,753	1,49,221	1,08,532	87,426	20,554	.....
2,360	29,360	.....	.....	.....	.....
65,104	5,860	13,241	12,316	9,604	.....
3,54,717	2,04,441	1,21,776	9,742	3,153	.....
56,66,328	3,03,804	48,63,524	10,35,194	3,02,167	4,96,489
Rs.	Rs.	.....	.....	.....	.....
1,59,896	81,256	.....	78,640	.....	1,578
256	356	.....	.....	.....	250
586	506	.....	.....	.....	10
1,60,838	82,108	.....	78,640	.....	1,838
269	217	.....	22	.....	30

Net difference against the year Rs. 15,17,554 Central circle.

FORM No. 125.—Account of Timber and depots, sold locally or otherwise disposed

Name of Division	Balance at commencement of the year in forest and sale depôts		Received during the year
	1	2	3
CENTRAL CIRCLE—contd.			
<i>Drifts and waifwood and Confiscated Forest Produce.</i>			
Belgaum ... ..	.....	.....	.....
SOUTHERN CIRCLE.			
Kanara, Northern Division—			
Teak	11,75,305	41,97,614	5,85,860
Blackwood	81,491	1,33,095	48,293
Junglewood	5,76,787	9,01,442	1,68,874
Total ...	18,33,583	52,31,851	7,97,547
Kanara, Eastern Division—			
Teak	9,81,747	63,42,082	1,53,885
Blackwood	37,548	2,22,287	1,9,4
Junglewood	5,84,684	18,30,866	1,52,576
Total ...	16,03,979	84,04,235	2,68,419
Kanara, Western Division—			
Teak	21,434	64,314	28,984
Blackwood	309	618	218
Junglewood	50,125	75,178	1,54,336
Total ...	71,872	1,40,120	1,83,538
Dharwar-Bijapur Division—			
Teak	27,244	1,36,220	7,195
Blackwood ... ..	.....	.....	.....
Junglewood	5,206	10,412	9,931
Total ...	32,450	1,46,632	17,126
Total, Timber—			
Teak	22,01,734	1,07,40,230	7,75,444
Blackwood	1,19,849	3,62,600	45,475
Junglewood	12,16,202	25,20,563	4,55,741
Total ...	35,37,785	13,1,28,393	13,66,660
Firewood.			
Fuel—			
Kanara, Northern Division	7,98,500	1,91,640	1,43,600
Kanara, Eastern Division	2,76,020	77,024	2,10,594
Kanara, Western Division ... ..	.....	.....	27,200
Dharwar-Bijapur Division	9,92,400	2,62,572	2,75,770
Total ...	21,66,920	5,31,236	6,57,164

other produce cut or collected by Government Agency and brought to of during the year 1947-48—contd.

Total	Disposed of during the year	Balance in hand at close of the year in forest and sale depôts		Difference in value	
				In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
.....
17,58,685	6,17,110	11,41,575	41,82,129	.....	15,485
1,24,784	101.1	1,1 624	1,77.97	38,332	.....
7,45,661	2,49,772	4,95,439	7,59,284	.....	1,11,818
26,29,139	8,76,493	17,52,637	51,48,810	38,362	1,27,313
11,85,682	1,73,331	9,61,801	62,13,237	.....	1,28,745
29,512	27.0	3,832	2,173.6	.....	4,761
7,3 854	2,13 170	5,23,484	16,48,975	.....	1,96,591
19,11,794	3,89,701	15,22,097	50,80,138	.....	8,24,097
50,422	15,142	85,270	1,05,840	41,526	.....
527	345	182	4	.....	254
2,04,461	1,07,821	36,640	54,139	.....	20,228
2,55,110	1,83,307	72,163	1,61,131	41,526	20,483
24,433	28,154	6,255	31,275	.....	1,4,945
15,167	15,067	100	207	.....	10,212
49,808	43,271	6,355	31,475	.....	1,13,157
2,159,178	8,34,367	21,44,911	1,05,32,581	41,526	2,49,275
1,04,823	172.6	1 1,617	9,287	33,302	4,675
17,01,943	6,45,289	10,56,653	24,93,419	.....	3,33,189
48,45,944	14,92,753	33,53,191	1,34,21,787	79,328	5,87,079
9,42,400	4,87,400	4,55,000	1,33,200	.....	82,440
5,67,114	3,47,623	2,19,491	50,175	.....	26,230
27,270	27.00	.....	.....	.....	.....
12,67,130	7,49,929	5,17,200	1,37,071	.....	1,24,518
28,21,364	15,12,143	12,12,221	2,98,589	.....	2,37,197

FORM No. 125.—Account of Timber and depots, sold locally or otherwise disposed

Name of Division	Balance at commencement of the year in forest and sale depots		Received during the year
	1	2	3
SOUTHERN CIRCLE—contd.			
<i>Charcoal.</i>			
Kanara, Eastern Division	21,000	15,290	.....
Kanara, Western Division	1,100	861	6,500
Dharwar-Bijapur	.....	.....	560
Total	22,100	16,151	7,060
Total, fuel including Charcoal	21,89,000	5,47,387	6,61,504
<i>Sandalwood.</i>			
		Rs.	Rs.
Kanara, Northern Division	.....	2,000	2,040
Kanara, Eastern Division	.....	47,103	61,941
Kanara, Western Division	.....	.....	.....
Dharwar-Bijapur Division	.....	3,64,013	1,51,030
Total, Sandalwood	.....	4,17,121	2,34,414
<i>Minor Forest Produce.</i>			
<i>Bamboos.</i>			
Karwar, Western Division	.....	.....	3
<i>Other Minor Forest Produce.</i>			
Kanara, Western Division	.....	.....	4
Dharwar-Bijapur Division	.....	.....	76
Total	.....	.....	80
<i>Drift and Waifwood and confiscated Forest Produce—</i>			
Kanara, Western Division	.....	.....	11
Net difference against the			
<i>Research and Working Plots Circles.</i>			
<i>Other Minor Forest Produce.</i>			
Silvicultural	.....	.....	592
Grand Total, Bombay Province—	C. ft.	Rs.	C. ft.
Timber and fuel	1,41,88,643	1,92,81,638	51,16,474
	Rs.	Rs.	Rs.
Sandalwood and other minor Forest Produce	.....	4,97,651	3,20,872
Net difference against the			

other produce cut or collected by Government Agency and brought to of during the year 1947-48—concl'd.

Total	Disposed of during the year	Balance in hand at close of the year in forest and sale depots		Difference in value	
		7	8	In favour of the year	Against the year
5	6	7	8	9	10
C.ft.	C.ft.	C.ft.	Rs.	Rs.	Rs.
21,000	15,700	5,300	5,548	.....	9,742
7,600	4,200	3,400	3,506	2,645	.....
560	560	.....	.....	.....	.....
29,160	20,460	8,700	9,054	2,645	9,742
28,53,524	16,32,603	12,26,921	3,07,098	2,615	2,42,939
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
4,040	40	.....	4,000	2,000	.....
1,28,452	47,445	.....	81,007	33,899	.....
.....
5,19,043	2,41,674	.....	2,77,369	.....	90,644
6,51,535	2,89,159	.....	3,62,376	35,899	90,644
3	3	.....	.....	.....	.....
4	4	.....	.....	.....	.....
76	76	.....	.....	.....	.....
80	80	.....	.....	.....	.....
11	11	.....	.....	.....	.....
year Rs. 8,02,290	Southern Circle.				
592	592	.....	.....	.....	.....
C. ft.	C. ft.	C. ft.	Rs.	Rs.	Rs.
195,36,117	82,92,401	1,13,43,716	1,69,51,712	5,24,594	28,06,350
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
8,18,523	3,77,485	.....	4,41,038	35,899	92,512
year Rs. 23,38,569.	Province of Bombay.				

FORM NO. 126.—*Summary of Revenue and Expenditure*

Budget Head	N. W. C. Diroction	Panch Mahals Division	Surat Sub- Division	North Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
NORTH WESTERN CIRCLE				
REVENUE				
X.—Forest.				
<i>I.—Timber and other produce removed from the forest by Government Agency—</i>				
a. Timber	.....	41,537 0 0	20,682 12 0	2,21,050 11 0
b. Firewood and charcoal	.....	11,234 3	121 4 0	1,244 0 0
c. Bamboos	.....	.....	.....	.....
d. Sandalwood	.....	.....	.....	.....
e. Grass and other minor produce.	.....	.....	.....	.....
Total I	.....	53,041 3 0	20,834 0 0	2,22,294 11 0
<i>II.—Timber and other produce removed from the forest by consumers or purchasers—</i>				
a. Timber	.....	7,89,939 6 0	8,25,838 0 0	80,98,304 12 6
b. Firewood and charcoal	.....	5,462 13 0	157 10 0	5,739 13 6
c. Bamboos	.....	1,512 4 0	7,919 8 6	12,007 9 0
d. Grazing and fodder grass	.....	19,393 19 0	8,811 0 0	7,145 14 0
e. Other minor produce	.....	25,854 10 0	5,120 0 9	4,375 12 6
f. Other Items	.....	.....	.....	.....
g. Commutation fees	.....	.....	.....	.....
Total II	.....	8,41,492 11 0	8,41,936 9 3	81,17,538 19 0
<i>III.—Drift and waif wood and confiscated forest produce.</i>				
Total III	.....	.....	.....	90 5 0
<i>IV.—Revenue from forest not managed by Government—</i>				
a. Duty on foreign timber and other forest produce.	.....	.....	.....	.....
b. Revenue from shared and private forest.	.....	.....	91 1 6	.....
Total IV	.....	.....	91 1 6	.....
V.—Miscellaneous—				
a. Fines and forfeitures	.....	3,856 9 0	2,554 4 0	15,230 11 0
b. Refunds	49 9 0	.....	29 8 0	225 0 0
c. Other sources	12 10 0	33,743 6 10	5,519 10 4	10,591 0 0
d. Recoveries of Establishment Charges.	.....	.....	.....	.....
Total V	62 9 0	37,599 14 10	8,102 6 4	26,036 11 0
Gross Total Revenue	62 3 0	9,52,443 12 10	8,70,911 1 1	33,65,075 5 6
<i>Deduct—Refunds</i>	.....	1,937 7 6	355 8 0	43,374 4 0
Net Revenue	62 3 0	9,50,106 5 4	8,69,985 9 1	33,21,581 2 0

of the different Divisions for the financial year 1947-48.

East Thana Division	West Thana Division	Division	Division	Working Plans Division	Total for 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
48,165 6 0	14,708 6 0	.....	.....	.....	3,41,435 8 0
4,123 9 6	1,571 10 0	.....	.....	.....	16,261 10 6
.....
.....	63 12 0	.....	.....	.....	63 12 0
47,276 15 6	16,343 12 0	.....	.....	.....	3,59,760 9 6
13,15,442 14 0	21,72,858 0 6	.....	.....	.....	51,92,383 7 0
2,059 8 0	4,409 1 0	.....	.....	.....	17,856 10 6
1,770 4 6	5,305 0 3	.....	.....	.....	27,114 10 3
262 0 0	35 0 0	.....	.....	.....	30,107 8 0
3,373 15 0	10,973 10 0	.....	.....	.....	49,538 0 3
.....
13,22,926 9 6	21,93,550 11 9	.....	.....	.....	83,17,392 4 0
440 8 0	1,809 6 0	.....	.....	.....	2,340 3 0
440 8 0	1,509 6 0	.....	.....	.....	2,340 3 0
.....
.....	9,723 10 8	.....	.....	.....	8,814 13 2
.....	8,723 10 8	.....	.....	.....	8,714 13 2
14,254 0 0	7,098 0 0	.....	.....	.....	42,923 7 6
532 12 0	67 11 0	.....	.....	.....	923 5 0
10,407 7 0	22,045 14 3	.....	.....	.....	1,02,320 0 5
.....	391 3 6	.....	.....	.....	391 3 6
25,224 3 0	29,802 12 9	.....	.....	.....	1,46,628 3 5
13,95,870 4 0	22,50,060 5 2	.....	.....	.....	59,34,036 0 1
2,042 0 0	3,765 0 0	.....	.....	.....	54,015 3 6
13,93,630 4 0	22,46,355 6 2	.....	.....	.....	87,80,920 12 7

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head	N. W. C. Direction	Panch Mahals Division	Surat Sub- Division	North Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST				
B.—CONSERVANCY AND WORKS				
<i>I.—Timber and other produce removed from the forests by Government Agency—</i>				
a. Timber	8,769 15 6	13,434 4 0	4,79,480 6 9
b. Firewood and charcoal	120 4 0	841 15 0	150 0 0
c. Bamboos
d. Sandalwood
e. Grass and other minor produce.	95 0 0
Total, B—I	8,890 3 6	14,276 1 0	4,79,725 6 3
<i>II.—Timber and other produce removed from the forests by consumers or purchasers.</i>				
	7,938 3 0	9,042 9 6	1,23,715 5 6
Total, B—II	7,938 3 0	9,042 9 6	1,23,316 5 6
<i>III.—Live stock, Stores, Tools and Plant—</i>				
a. Purchase of cattle
b. Feed and upkeep of cattle
c. Purchase of stores, tools and plant.	188 4 0	189 14 0	1,081 10 3
d. Customs duty
Total, B—III	188 4 0	189 14 0	1,081 10 3
<i>IV.—Communications and Buildings—</i>				
a. Railways and Tramways
b. Roads and bridges (other than those in connection with Railways and Tramways).	45 0 0	639 0 0	1,040 2 6
c. Buildings	1,493 11 6	1,339 10 0	4,113 7 9
d. Other works	130 0 0	136 0 0	4,157 1 0
Total, B—IV	1,668 11 6	2,914 10 0	9,310 11 3

of the different Divisions for the financial year 1947-48—contd.

East Thana Division	West Thana Division	Division	Division	Working Plans Division	Total for 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
41,717 8 9	10,715 5 0	.....	.....	.....	5,54,117 8 0
8,810 0 0	192 8 0	.....	.....	.....	10,114 7 0
.....
.....
.....	.....	.....	.....	.....	95 0 0
53,527 8 9	10,907 11 0	.....	.....	.....	5,64,326 15 0
18,409 0 3	20,642 15 9	.....	.....	.....	1,79,348 9 0
18,409 0 3	20,642 15 9	.....	.....	.....	1,79,348 9 0
.....
.....
1,447 1 0	505 2 0	.....	.....	.....	3,411 16 3
.....
1,447 1 0	505 2 0	.....	.....	.....	3,411 16 3
.....
.....
3,966 4 0	3,448 3 0	.....	.....	.....	9,138 9 6
5,746 7 0	3,071 1 3	.....	.....	.....	13,364 5 6
261 0 0	68 8 0	.....	.....	.....	4,752 9 0
9,073 11 0	6,587 12 3	.....	.....	.....	99,855 6 0

FORM No. 126.—*Summary of Revenue and Expenditure*

Budget Head	N. W. C. Direction	Panch Mahals Division	Surat Sub- Division	North Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST— contd.				
B.—CONSERVANCY AND WORK—contd.				
<i>V.—Organisation, improvement and extension of forests—</i>				
a. Demarcation	651 7 6	95 0 0	728 4 6
b. Forest Settlement
c. Surveys
d. Working Plans
e. Plantations	237 2 9	.....	4,675 14 0
f. Reproduction	8,041 14 9	3,552 0 6	69,945 3 0
g. Fire protection	3,246 0 0	5,541 10 0	7,867 13 0
h. Other works	3,331 9 6	6 0 0	4,537 10 9
Total, B—V	14,498 2 6	9,194 10 6	87,755 14 0
<i>VI.—Miscellaneous—</i>				
a. Rent of leased forests and payments to shareholders in forests managed by Government.
b. Law charges
c. Grain compensation allowance.
d. Clothing	6,713 11 6	1,724 4 9	9,234 6 6
e. Famine fodder charges	448 8 0	.....	.....
f. Other charges	25 5 0	.....	35 3 0
Total, B—VI	7,187 8 6	1,724 4 9	9,269 9 6
<i>VII.—Suspense—</i>				
a. Work advances	-251 2 0
Total, B—VII	-251 2 0
<i>VIII.—Demarcation of boundaries (between British territory and Indian States).</i>				
Total B-Conservancy and Works	40,371 1 0	36,741 8 9	7,10,206 7 3

of the different Divisions for the financial year 1947-48—contd.

East Thana Division	West Thana Division	Division	Division	Working Plans N. C.	Total for 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
478 14 0	80 0 0	.....	.....	.....	2,038 10 0
.....
.....
.....	4 0 0	.....	.....	.....	4,918 1 6
14,631 9 0	16,790 8 9	.....	.....	.....	1,13,951 4 0
12,157 0 0	6,188 3 0	.....	.....	.....	35,000 10 0
.....	2,583 4 0	.....	.....	.....	9,443 3 3
28,267 7 0	23,645 15 9	.....	.....	.....	1,65,363 1 9
3,999 14 0	.....	.....	.....	.....	3,999 14 0
400 0 0	.....	.....	.....	.....	400 0 0
.....
3,652 14 6	5,941 6 6	.....	.....	.....	28,206 11 9
.....	.....	.....	.....	.....	448 8 0
73 7 6	585 3 0	.....	.....	.....	719 2 6
.....	.....	.....	.....	.....	32,864 4 3
.....	.....	.....	.....	.....	-257 2 0
.....	.....	.....	.....	.....	-257 2 0
.....
1,17,751 0 0	71,816 2 3	.....	.....	.....	9,74,915 3 3

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head	N. W. C. Direction	Panch Mahals Division	Surat Sub- Division	North Thana Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST— <i>contd.</i>				
C.—ESTABLISHMENTS				
A.—GENERAL DIRECTION				
I.—Pay of Officers—				
a. Chief Conservator or Conservators.	.....	.....	.....	.....
b. Superior officers plus Voted, personal and special pay.	.....	4,364 13 0	2,952 3 0	9,133 15 0
Superior officers plus personal and special pay—Voted	.....	.....	.....	.....
c. Leave salary—				
Charged	.....	.....	.....	.....
Voted	.....	1,282 1 0	.....	.....
Total, C.—I	{ Charged .....	.....	.....	.....
	{ Voted	5,646 14 0	2,952 3 0	9,133 15 0
II.—Pay of Establishment—				
a. Subordinate forest and depot establishment plus special and personal pay.	.....	66,366 11 0	20,345 7 0	99,502 3 0
b. Office establishment plus special and personal pay.	.....	8,744 2 0	3,233 1 0	14,596 5 0
c. Proficiency allowance	.....	.....	.....	.....
d. Temporary establishment plus special pay.	.....	4,980 10 0	820 12 0	6,356 1 0
e. Leave salary	.....	2,482 10 0	1,510 3 0	8,006 15 0
Total, C.—II	.....	82,503 1 0	28,244 7 0	1,25,621 9 0
III.—Allowances, Honoraria, etc.—				
a. Compensatory allowances—				
Voted	.....	3,879 14 0	2,060 0 0	3,739 11 0
b. Travelling allowance—				
Voted	.....	15,254 13 0	5,523 0 0	25,634 15 0
c. Plague allowance—Voted	.....	.....	.....	.....
d. House-rent allowance—				
Charged	.....	.....	.....	.....
Voted	.....	1,090 12 0	390 14 0	1,635 4 0
e. Forest training	.....	.....	.....	3,723 0 3
f. Grain compensation	.....	.....	.....	.....
g. Cost of passages granted under the Superior Service Rules, 1924—Charged	.....	.....	.....	.....
h. Payments on account of medical treatment of British officers of the "Superior Civil Service."	.....	.....	.....	.....
i. Dearness allowance—Voted	.....	56,675 5 0	18,223 11 0	76,112 8 0
j. Cost of living allowances—				
Voted	.....	966 12 0	562 8 0	1,888 5 0
Total, C.—III	{ Charged .....	.....	.....	.....
	{ Voted	79,867 8 0	.....	1,12,186 11 3
IV.—Contingencies—				
a. Stationery	.....	169 10 0	69 2 0	104 12 0
b. Carriage of tents and records	.....	1,672 2 0	270 11 0	1,672 4 0
c. Rents, rates and taxes	.....	1,983 0 0	4 6 0	117 1 0
d. Service postage and telegram charges.	.....	2,652 2 6	1,199 0 0	7,119 14 6
e. Sundries	.....	1,505 12 6	649 8 3	811 4 0
Total, C.—IV	.....	5,952 12 6	2,192 11 3	9,236 3 6
V.—Establishment charges recoverable from other Governments, Department, etc.—				
a. Deduct amount recoverable from Raisinspur Estate on account of pay of Rangers, etc.	.....	.....	.....	.....
Total V	.....	.....	.....	.....
TOTAL, C.—ESTABLISHMENT	.....	1,78,970 1 6	61,150 2 7	2,56,257 6 0
Total 10, Forest	.....	2,14,341 2 6	96,891 15 0	9,66,565 14 0

of the different Divisions for the financial year 1947-48—contd.

East Thana Division	West Thana Division	Division	Division	Working Plans N. C. Division	Total for 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
4,713 10 0	7,239 5 0	.....	.....	.....	28,403 14 0
.....
.....	.....	.....	.....	.....	1,282 1 0
4,713 10 0	7,239 5 0	.....	.....	.....	29,655 15 0
98,352 4 0	1,05,366 3 0	.....	.....	.....	3,30,892 12 0
14,238 7 0	10,457 0 0	.....	.....	.....	53,374 0 0
1,592 1 0	6,921 9 0	.....	.....	.....	17,900 1 0
5,290 8 0	4,500 6 0	.....	.....	.....	20,120 10 0
1,19,472 4 0	1,26,145 2 0	.....	.....	.....	4,82,187 7 0
7,565 6 0	3,939 15 0	.....	.....	.....	23,324 14 0
21,425 7 0	20,973 2 0	.....	.....	.....	88,719 5 0
.....
3,347 6 0	2,571 11 0	.....	.....	.....	8,939 15 0
.....	549 3 0	.....	.....	.....	4,271 3 3
.....
.....
69,536 1 0	77,294 14 0	.....	.....	.....	2,97,842 7 0
927 8 0	4,235 13 0	.....	.....	.....	8,640 14 0
.....
1,03,331 12 0	1,09,514 10 0	.....	.....	.....	4,31,631 10 3
80 5 0	39 7 0	.....	.....	.....	403 7 0
478 10 0	480 14 6	.....	.....	.....	3,354 9 6
192 3 0	1,472 10 3	.....	.....	.....	3,069 4 3
3,293 3 9	2,500 10 0	.....	.....	.....	19,124 14 9
638 15 6	.....	.....	.....	.....	4,288 7 9
4,743 8 3	5,116 9 9	.....	.....	.....	27,240 11 3
.....
-498 11 0	.....	.....	.....	.....	-498 11 0
.....
-498 11 0	.....	.....	.....	.....	-498 11 0
2,31,753 7 3	2,45,015 10 3	.....	.....	.....	9,70,247 0 6
3,47,534 7 3	3,19,531 13 0	.....	.....	.....	19,45,165 3 9

FORM No. 126.—*Summary of Revenue and Expenditure*

Budget Head	N. W. C. Direction	Panch Mahals Division	Surat Sub- Division	North Thana Division
EXPENDITURE—10, FOREST— <i>contd.</i>	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
E.—POST WAR RECONSTRUCTION AND DEVELOPMENT PROGRAMME				
E (1) Conservancy and Works.				
<i>I.—Organization, improvement and extension of forests—</i>				
a. Demarcation ... ..	.....	.....	.....	.....
b. Forest Settlement ... ..	.....	.....	.....	.....
c. Surveys ... ..	.....	.....	.....	.....
d. Working Plans ... ..	.....	.....	.....	.....
e. Plantations ... ..	.....	.....	8,094 2 9	.....
f. Reproduction ... ..	.....	.....	.....	.....
g. Fire protection ... ..	.....	.....	.....	.....
h. Other works ... ..	.....	.....	.....	.....
Total, I ... ..	.....	.....	8,094 2 9	.....
<i>II.—Communications and Build- ings—</i>				
a. Railways and Tramways ... ..	.....	.....	.....	.....
b. Roads and bridges (other than those in connection with the Railways and Tramways).	.....	.....	.....	.....
c. Buildings ... ..	.....	.....	.....	.....
d. Other works	84 5 0	.....	.....	.....
Total, II	84 5 0	.....	.....	.....
<i>III.—Live-stock Stores, tools and plant—</i>				
a. Purchase of cattle ... ..	.....	.....	.....	.....
b. Feed and upkeep of cattle ... ..	.....	.....	.....	.....
c. Purchase of stores, tools and plants.	41 2 6	.....	.....	.....
d. Custom duty ... ..	.....	.....	.....	.....
Total, III	41 2 6	.....	.....	.....
<i>IV.—Miscellaneous—</i>				
a. Rent of leased forest and Pay- ments of share-holders in forests managed by Govern- ment.	.....	.....	.....	.....
b. Law charges ... ..	.....	.....	.....	.....
c. Grain Compensation allowance.	.....	.....	.....	.....
d. Clothing ... ..	.....	.....	.....	.....
e. Famine Fodder charges ... ..	.....	.....	.....	.....
f. Other charges ... ..	.....	.....	.....	.....
Total IV ... ..	.....	.....	.....	.....
Total 'E' (I)	125 7 6	.....	8,094 2 9	.....

FORM No. 125.—Summary of Revenue and Expenditure

Budget Head	N. W. C. Division	Panch Mahal Division	Surat Sub-Division	North Thana Division
EXPENDITURE—10, FOREST—contd.				
"E"—II.—ESTABLISHMENT.				
I.—Pay of officers				
a. Conservators (Voted) ...	13,200 0 0	.....	.....	.....
b. Superior Officers { Charged ...	.....	.....	.....	.....
plus personal and special pay { Voted ...	3,182 7 0	.....	.....	.....
{ Charged ...	.....	.....	.....	.....
c. Leave salary ... { Voted ...	.....	.....	.....	.....
Total I { Charged ...	.....	.....	.....	.....
{ Voted ...	16,382 7 0	.....	.....	.....
II.—Pay of Establishments—				
a. Subordinate Forest and Depot Establishment plus personal and special pay.	.....	.....	1,332 3 0	.....
b. Office Establishment plus personal and Special pay.	14,777 13 0	.....	.....	.....
c. Proficiency allowance ...	.....	.....	.....	.....
d. Temporary Establishment ...	.....	.....	.....	.....
e. Leave salary ...	1,159 14 0	.....	.....	.....
Total II ...	15,937 11 0	.....	1,332 3 0	.....
III.—Allowances, Honoraria, etc.—				
a. Bonus allowance—	.....	.....	.....	.....
Charged ...	.....	.....	.....	.....
Voted ...	217 14 0	.....	105 0 0	.....
b. Travelling allowances—	.....	.....	.....	.....
Charged ...	.....	.....	.....	.....
Voted ...	9,355 12 0	.....	201 0 0	.....
c. Plague allowance ...	.....	.....	.....	.....
d. House rent allowance	.....	.....	.....	.....
Charged ...	.....	.....	.....	.....
Voted ...	50 11 0	.....	19 0 0	.....
e. Forest Training ...	.....	.....	.....	.....
f. Grain compensation ...	.....	.....	.....	.....
g. Cost of passage granted under the superior Civil Service Rules, 1924 (Charged).	.....	.....	.....	.....
h. Payments on accounts of medical treatment of British Officers of the superior Civil Service.	.....	.....	.....	.....
i. Dearness allowance—Voted ...	7,441 6 0	.....	1,077 15 0	.....
j. Cost of living allowance—Voted ...	2,426 6 0	.....	.....	.....
Total III { Charged ...	.....	.....	.....	.....
{ Voted ...	10,451 1 0	.....	1,403 15 0	.....
IV.—Contingencies—				
a. Stationery ...	63 0 0	.....	1 2 0	.....
b. Carriage of tents and records ...	445 7 0	.....	.....	.....
c. Rents, rates and taxes ...	572 0 0	.....	.....	.....
d. Service postage and telegram charges.	3,101 3 3	.....	.....	.....
e. Sundries ...	1,521 12 5	.....	.....	.....
Total IV ...	6,003 6 8	.....	1 2 0	.....
TOTAL E II ESTABLISH- Voted ...	57,724 9 8	.....	2,737 4 0	.....
MENT.				
"E" POST-WAR RECONSTRUCTION AND DEVELOPMENT PROGRAMME.	57,724 9 8	.....	10,761 6 9	.....
TOTAL 10 FORESTS ...	.....	2,14,341 2 6	96,891 15 0	9,66,565 14 0
TOTAL 10 FORESTS AND 'E' POST WAB RECONSTRUCTION AND DEVELOPMENT PROGRAMME ...	57,860 1 2	2,14,341 2 6	1,07,653 6 9	9,66,565 14 0
Surplus or deficit ...	-57,787 14 2	+7,35,765 2 10	+7,62,332 3 4	+23,54,015 4 0

of the different Divisions for the financial year 1947-48—contd.

East Thana Division	West Thana Division	Division	Division	Total for the year 1947-48
				13,800 0 0
				3,182 7 0
				16,882 7 0
				1,332 3 0
				14,777 13 0
				1,150 14 0
				17,269 14 0
				322 14 0
				9,457 12 0
				78 11 0
				2,515 5 0
				2,496 6 0
				20,805 0 0
				64 2 0
				445 7 0
				872 0 0
				3,101 3 3
				1,621 12 5
				5,004 8 8
				60,461 13 6
				68,611 7 11
3,47,534 7 3	3,19,831 13 0			19,45,166 3 9
3,47,534 7 3	3,19,831 13 0			20,13,776 11 8
+10,46,926 12 9	+19,26,623 8 2			+87,67,144 0 11

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head	Direction	Division East Nasik	Division West Nasik	Division East Khandesh
NORTH EASTERN CIRCLE				
REVENUE				
X.—Forest.				
<i>I.—Timber and other produce removed from the Forest by Government agency—</i>				
<i>a. Timber</i>	13 4 0	14,494 3 6	2,590 2 0
<i>b. Firewood and charcoal</i>	34 4 0	48,590 11 0	70 0 0
<i>c. Bamboos</i>	124 11 3	.....
<i>d. Sandalwood</i>	6 4 0	60 2 0	.....
<i>e. Grass and other minor produce.</i>
Total I	53 12 0	63,289 11 9	2,660 2 0
<i>II.—Timber and other produce removed from the Forest by consumer or purchasers—</i>				
<i>a. Timber</i>	1,28,296 4 6	7,96,418 10 3	1,13,119 10 0
<i>b. Firewood and charcoal</i>	77,456 12 0	61,469 10 0	1,35,973 1 3
<i>c. Bamboos</i>	166 8 0	6,114 8 9	21,569 10 0
<i>d. Grazing and fodder grass</i>	13,374 0 0	34,065 0 0	1,26,560 11 3
<i>e. Other minor produce</i>	10,126 9 0	18,714 15 0	26,640 12 6
<i>f. Other items</i>
<i>g. Commutation fees</i>
Total II	2,29,340 2 6	9,16,742 12 0	4,23,863 13 0
<i>III.—Drift and way wood and confiscated Forest produce</i>				
Total III	134 5 0	2,191 12 0	10 4 0
<i>IV.—Revenue from Forest not managed by Government—</i>				
<i>a. Duty on foreign timber and other Forest produce,</i>	12,924 0 0
<i>b. Revenue from shared and private Forest.</i>
Total IV	12,924 0 0
<i>V.—Miscellaneous—</i>				
<i>a. Fines and forfeitures</i>	7,615 10 0	29,937 8 0	21,788 8 6
<i>b. Refunds</i>	401 6 0	51 14 0	56 16 0
<i>c. Other sources</i>	2,855 0 0	26,689 3 6	84,719 6 6	22,467 9 6
<i>d. Recoveries of establishment charges</i>	1,050 0 0	.....
<i>e. Contribution towards etc.</i>
Total V	2,855 0 0	34,606 3 6	65,758 22 6	44,333 1 0
Gross Total Revenue	2,855 0 0	2,64,134 7 0	10,47,983 0 3	4,83,791 4 0
<i>Deduct—Refunds</i>	30 0 0	584 4 0	1,608 2 0	6,952 9 0
Net Revenue	2,825 0 0	2,63,550 3 0	10,46,374 7 3	4,76,838 11 0

of the different Divisions for the financial year 1947-48—contd.

Division West Khandesh	West Khandesh Sub-Division	Division	Division	Total for 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
32,732 13 0	117 12 0	.....	.....	1,09,948 2 3
27,619 11 0	.....	.....	.....	76,314 13 0
.....	.....	.....	.....	124 11 3
.....	22 0 5	.....	.....	108 5 3
.....	122 0 0	.....	.....	323 0 0
1,20,352 8 0	361 12 3	.....	.....	1,86,717 14 0
7,95,550 1 0	2,49,881 7 0	.....	.....	30,53,266 0 9
3,634 11 0	33,307 3 0	.....	.....	3,11,711 6 3
1,350 2 6	2,351 3 9	.....	.....	31,392 1 0
1,067 13 0	42,266 10 0	.....	.....	2,17,344 1 3
95,850 3 0	21,067 5 6	.....	.....	1,02,808 13 0
.....
.....
8,37,901 13 6	3,48,573 13 3	.....	.....	27,46,522 6 3
.....	.....	.....	.....	2,336 5 0
.....	.....	.....	.....	2,336 5 0
5,400 6 0	9,873 8 0	.....	.....	28,196.14 0
.....
5,400 6 0	9,873 8 0	.....	.....	28,196 14 0
3,483 0 0	8,250 11 0	.....	.....	71,055 5 6
65 10 3	.....	.....	.....	575 13 3
23,288 4 3	35,828 3 6	.....	.....	1,45,767 11 3
600 0 0	.....	.....	.....	1,650 0 0
62 8 0	.....	.....	.....	62 8 0
27,509 6 6	44,078 11 6	.....	.....	2,19,141 8 0
.....
9,81,164 1 0	1,02,987 0 0	.....	.....	31,52,914 13 3
69,564 0 0	8,014 1 0	.....	.....	66,723 7 0
5,11,500 2 0	3,34,942 15 0	.....	.....	30,96,131 6 3

FORM No. 126—Summary of Revenue and Expenditure

Budget Head.	Direction.	Division East Nasik.	Division West Nasik.	Division East Khandesh.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST.				
B—CONSERVANCY AND WORK.				
<i>I.—Timber and other produce removed from the Forest by Government Agency—</i>				
a. Timber	9,396 3 9	.....
b. Firewood and charcoal	41 11 0	64,040 15 9	34 0 0
c. Bamboos
d. Sandalwood
e. Grass and other minor produce.
Total B-I	41 11 0	73,437 3 6	34 0 0
<i>II.—Timber and other produce removed from the Forests by consumers or purchasers.</i>				
Total B-II	6,768 11 9	13,112 9 9	3,713 13 0
<i>III.—Live-stock, stores, tools and plant—</i>				
a. Purchase of cattle
b. Feed and upkeep of cattle
c. Purchase of stores, tools and plant.	4 8 0	384 0 0	277 6 6	179 6 0
d. Customs duty
Total B-III	4 8 0	384 0 0	277 6 6	179 6 0
<i>IV.—Communications and Buildings—</i>				
a. Railways and Tramways
b. Roads and bridges (other than those in connection with Railways and Tramways).	491 1 0	11,489 4 6	3,694 2 6
c. Buildings	150 0 6	5,081 8 6	589 3 0
d. Other works	50 0 0	45 0 0	77 0 0
Total B-IV	691 1 0	16,615 13 0	4,360 5 6
<i>V.—Organization, improvement and extension of Forests—</i>				
a. Demarcation	335 10 0	792 8 9	137 6 0
b. Forest Settlement
c. Surveys
d. Working Plans
e. Plantations	1,349 11 0	.....	44 6 6
f. Reproduction	1,225 15 9	3,178 7 9	155 0 0
g. Fire protection	117 10 0	34 0 0	1,178 6 0
h. Other works	152 0 0	.....	1,128 3 0
Total B-V	3,173 14 9	4,605 0 6	2,643 6 6

of the different Divisions for the financial year 1947-48—contd.

Division West Khandesh.	Division West Khandesh Sub- Division.	Division.	Division.	Total for 1947-48.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
5,433 0 0	.....	.....	.....	15,929 3 9
3,433 6 0	.....	.....	.....	67,549 0 9
.....
.....
.....
9,965 6 0	.....	.....	.....	83,478 4 6
15,106 1 0	6,907 14 0	.....	.....	45,609 1 6
15,106 1 0	6,907 14 0	.....	.....	4,609 1 6
.....
.....
481 9 0	185 15 0	.....	.....	1,512 12 6
.....
481 9 0	185 15 0	.....	.....	1,512 12 6
.....
6,946 12 3	9,667 12 6	.....	.....	26,189 0 9
2,108 8 6	1,538 9 0	.....	.....	9,437 13 0
98 0 6	.....	.....	.....	270 0 6
9,053 6 3	4,206 5 0	.....	.....	34,926 14 3
.....
333 7 0	493 6 0	.....	.....	2,095 5 9
.....
.....
.....
.....	627 0 6	.....	.....	2,014 9 0
1,036 8 0	18 2 0	.....	.....	5,874 1 6
4,855 9 3	1,498 6 0	.....	.....	7,653 15 3
1,554 5 0	85 0 0	.....	.....	2,919 8 0
7,768 13 3	2,796 14 6	.....	.....	20,389 0 6

of the different Divisions for the financial year 1947-48—contd.

Division West Khandesh.	Division West Khandesh sub- Division.	Division.	Division.	Total for 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
40 0 0	.....	.....	.....	370 0 0
.....
5,562 9 3	5,500 11 9	.....	.....	27,281 4 6
.....
879 0 0	102 15 0	.....	.....	1 224 5 0
6,571 9 3	5,603 10 9	.....	.....	28,075 9 6
.....
.....
20 0 0	.....	.....	.....	20 0 0
-90 0 0	.....	.....	.....	-90 0 0
48,876 11 9	19,700 11 9	.....	.....	2,14,720 10 9
.....	.....	.....	.....	9,250 0 0
.....	.....	.....	.....	7,814 11 0
4,962 2 0	8,967 12 0	.....	.....	24,930 7 0
.....
.....	.....	.....	.....	4,073 12 0
.....	.....	.....	.....	9,200 0 0
4,962 2 0	3,987 12 0	.....	.....	31,898 14 0
64,400 0 0	42 338 15 0	.....	.....	2,72,209 3 0
12,164 15 0	8,645 10 0	.....	.....	67,300 2 0
.....
1,284 7 0	1,292 8 0	.....	.....	9,917 7 0
6,217 11 0	4,481 2 0	.....	.....	23,241 7 0
74,067 1 0	56,753 3 0	.....	.....	3,72,635 3 0

FORM No. 126—Summary of Revenue and Expenditure

Budget Head.	Direction.	Division East Nasik.	Division West Nasik.	Division East Bhandesh.
EXPENDITURE—10 FOREST —contd.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
<i>III—Allowances, Honoraria, etc.—</i>				
a. Compensatory Allowances. { Charged... Voted ...	730 0 0	6,196 0 0	660 18 0	5,720 0 0
b. Travelling allowance. { Charged... Voted ...	1,676 3 0 3,583 1 0	13,884 3 0	19,465 12 0	18,445 4 0
c. Plague allowance (Voted) ...	.....	.....	.....	.....
d. House rent allowance. { Charged... Voted ...	.....	2,673 11 0	2,700 6 0	3,708 9 0
e. Forest Training ...	.....	.....	.....	.....
f. Grain compensation ...	.....	.....	.....	.....
g. Cost of living allowance. { Charged... Voted ...	1,315 0 0 1,693 9 0	330 10 0	1,415 2 0	1,106 10 0
Dearness allowance ...	5,666 4 0	59,108 8 0	54,883 2 0	49,587 2 0
Total III { Charged ... Voted ...	2,991 3 0 12,672 14 0	..... 62,187 0 0	..... 79,325 3 0	..... 78,567 9 0
<i>IV.—Contingencies—</i>				
a. Stationery ...	23 3 0	173 15 6	49 7 6	67 7 0
b. Carriage of tents and records Other-non contract contingencies.	188 12 0	407 8 0	948 13 0	337 1 0
c. Rents rates and taxes ...	360 12 6	20 1 0	95 5 0	98 14 0
d. Service postage and telegram charges.	1,500 7 0	1,269 6 0	2,001 1 9	2,446 10 0
e. Sundries ...	985 5 3	337 1 0	1,907 6 0	618 1 6
Total IV ...	3,158 7 9	2,247 15 6	4,302 1 3	3,568 1 6
<i>V.—Establishment charges recoverable from other Governments Department, etc.—</i>				
(a) Deduct—Amount recoverable from Raisingpur Estate on account of pay of Rangers, etc.	.....	.....	.....	.....
Establishment charges payable to Central Government Revenue Department.	.....	.....	.....	.....
Deduct.—Establishment charges recoverable from contractors, etc. on account of pay of guards, etc. Excise Department.	.....	.....	-1,060 0 0	.....
Total V ...	.....	.....	-1,060 0 0	.....
TOTAL C—ESTABLISHMENT ...	61,861 13 8	1,39,657 11 6	1,77,921 12 3	1,50,301 0 6

of the different Divisions for the financial year 1947-48—contd.

Division West Khandesh.	Division West Khandesh Sub- Division.	Division.	Division.	Total for 1947-48.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
4,445 0 0	4,666 0 0	.....	.....	22,510 13 0
16,935 0 0	12,296 7 0	.....	.....	1,676 3 6
.....	.....	.....	.....	82,919 11 0
1,925 16 0	1,678 3 0	.....	.....	.....
.....	.....	.....	.....	12,686 19 0
.....
1,152 13 0	347 11 0	.....	.....	1,315 0 0
.....	.....	.....	.....	6,025 5 0
43,660 15 0	39,526 6 0	.....	.....	2,53,468 5 0
.....	.....	.....	.....	2,991 3 0
65,429 11 0	58,413 11 0	.....	.....	1,57,596 0 0
104 13 0	43 5 0	.....	.....	462 8 0
477 13 0	161 1 0	.....	.....	2,621 0 0
135 9 0	101 4 0	.....	.....	811 13 6
2,600 9 0	1,800 3 0	.....	.....	11,508 4 9
673 13 3	587 3 8	.....	.....	4,458 13 8
3,892 6 3	2,192 15 8	.....	.....	19,662 2 11
.....
-2,291 15 0	.....	.....	.....	-2,221 16 0
-500 0 0	.....	.....	.....	-5.0 0 0
-11,900 0 0	.....	.....	.....	-12,960 0 0
.....
-14,621 16 0	.....	.....	.....	-15,371 16 0
1,34,799 8 3	1,21,869 9 8	.....	.....	7,23,624 7 11

FORM No. 126.—*Summary of Revenue and Expenditure*

Budget Head.	Direction.	Division East Nasik.	Division West Nasik.	Division East Khandesh.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10 FOREST				
— <i>contd.</i>				
D.—SPECIAL DEVELOPMENT PROGRAMME.				
E.—POST-WAR RECONSTRUCTION AND DEVELOPMENT.	.....	.....	3,758 8 0	5,081 8 0
i. Conservancy and Works	.....	.....	.....	.....
I.— <i>Organization, improvement and extension of Forest—</i>				
a. Demarcation	.....	.....	.....	.....
b. Forest Settlement	.....	.....	.....	.....
c. Survey	.....	.....	.....	.....
d. Working Plans	.....	.....	.....	.....
e. Plantations	.....	.....	.....	.....
f. Reproduction	.....	.....	.....	.....
g. Fire protection	.....	.....	.....	.....
h. Other works	.....	.....	.....	.....
Total I	.....	.....	.....	.....
II.— <i>Communications and Buildings—</i>				
a. Railways and Tramways	.....	.....	.....	.....
b. Roads and bridges	.....	.....	.....	.....
c. Buildings	.....	.....	.....	.....
d. Other works	.....	.....	.....	.....
Total II	.....	.....	.....	.....
III.— <i>Live-stock Stores, tools and plant—</i>				
a. Purchase of cattle	.....	.....	.....	.....
b. Feed and upkeep of cattle	.....	.....	.....	.....
c. Purchase of stores, tools and plant.	.....	.....	.....	.....
d. Customs duty	.....	.....	.....	.....
Total III	.....	.....	.....	.....
IV.— <i>Miscellaneous—</i>				
a. Rent of leased forest and Payments to share holders in forests managed by Government.	.....	.....	.....	.....
b. Law charges	.....	.....	.....	.....
c. Grain compensation allowance.	.....	.....	.....	.....
d. Clothing	.....	.....	.....	.....
e. Famine Fodder charges	.....	.....	.....	.....
f. Other charges	.....	.....	.....	.....
Total IV	.....	.....	.....	.....
Total "E" (i) Conservancy and works.	.....	.....	.....	.....
(ii) Establishment	.....	.....	.....	.....
Total E Post-war Reconstructions and Development.	.....	.....	3,758 8 0	5,081 8 0
GRAND TOTAL OF ALL EXPENDITURE.	51,866 5 9	1,57,369 10 0	2,94,928 8 6	1,78,540 19 0
SURPLUS OR DEFICIT	-49,041 5 9	+1,05,180 9 0	+7,52,145 14 9	+2,96,297 15 0

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head	Direction Division	Belgaum Division	Poona Division	Kolaba Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
CENTRAL CIRCLE				
REVENUE				
X.—Forest				
<i>I.—Timber and other produce removed from the Forest by Government Agency—</i>				
a. Timber	1,19,781 5 9	17,266 2 0	1,00,166 2 0
b. Firewood and charcoal	4,75,934 4 6	20,944 8 0	15,736 8 0
c. Bamboos	355 12 0	.....
d. Sandalwood	81,355 2 5	243 11 0	.....
e. Grass and other minor produce.	5 12 0
Total I	6 76,121 12 8	38,810 1 0	1,15,906 6 0
<i>II.—Timber and other Produce removed from the Forest by Consumers or Purchasers—</i>				
a. Timber	1,34,744 4 8	1,00,210 10 6	10,01,045 13 8
b. Firewood and charcoal	4,21,627 2 0	1,13,317 12 0	53,406 1 6
c. Bamboos	30,156 3 1	573 14 0	107 8 0
d. Grazing and fodder grass	359 0 0	40,522 7 0	137 4 0
e. Other minor produce	38,333 8 0	15,405 4 0	10,306 10 1
f. Other items
g. Commutation fees
Total, II	6,25,268 1 9	2,70,302 15 6	10,5,004 5 3
<i>III.—Drift and waif wood and confiscated Forest Produce</i>				
Total, III
<i>IV.—Revenue from Forest not managed by Government—</i>				
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests	11 2 10	53 12 0
Total, IV	11 2 10	53 12 0
<i>V.—Miscellaneous—</i>				
a. Fines and forfeitures	886 8 0	3,912 10 0	2,758 0 0
b. Refunds	9 13 0	121 8 0	178 6 0	25 5 10
c. Other sources	2,130 8 0	56,100 0 2	23,165 9 0	24,091 1 8
d. Recoveries of Establishment Charges	238 8 0	.....
e. Contribution towards leave salary etc.	75 11 0	.....	.....
Total, V	2,133 5 0	57,131 2	32,395 1 0	26,875 7 6
GROSS TOTAL REVENUE	2,133 5 0	13,57,593 9 7	3,41,526 4 4	12,07,939 14 9
Deduct—Refunds	1,13,017 6 6	1,678 2 0	84,690 7 0
NET REVENUE	2,133 5 0	12,45,576 3 1	3,39,848 2 4	11,23,249 7 9
EXPENDITURE—10—FOREST				
B.—CONSERVANCY AND WORK.				
<i>I.—Timber and other produce removed from the Forests by Government Agency—</i>				
a. Timber	1,84,542 4 0	1,574 8 0	70,099 13 8
b. Firewood and charcoal	4,57,448 8 0	1,802 0 0	10,136 15 3
c. Bamboos	216 0 0	.....	.....
d. Sandalwood	10,709 10 2	32 8 0	.....
e. Grass and other minor produce.	94 0 0	.....	.....
Total, B—I	6,33,100 6 2	3,709 0 0	80,236 12 9

of the different Divisions for the financial year 1947-48 -contd.

Sabara Division	Working Plans Division, C. C.	Division	Division	Total for the year 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,435 0 0	2,39,548 9 9
55,198 9 0	5,66,953 13 6
586 4 0	52,198 2 6
.....	247 7 0
56,914 13 0	8,89,058 0 6
1,28,755 3 0	18,64,768 15 10
4,408 12 0	5,92,754 11 8
257 12 0	31,354 5 1
17,365 9 0	5,538 3 4 0
12,186 6 0	76,209 12 1
.....
1,62,957 10 0	21,28,560 0 6
.....
.....
.....
7 15 6	72 14 4
7 15 6	72 14 4
1,976 0 0	9,833 2 0
128 7 0	457 7 10
11,977 18 0	1,22,464 15 10
.....	238 8 0
.....	75 11 0
13,982 4 0	1,32,569 12 8
2,35,162 10 6	31,45,255 12 2
.....	1,95,585 15 6
2,35,162 10 6	29,45,669 12 8
.....
1,099 7 0	2,37,516 9 6
42,916 10 6	5,11,854 1 9
.....	216 0 0
.....	10,532 2 9
.....	94 0 0
4,316 1 6	7,60,422 5 0

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head	Belgaum Division	Poona Division	Kolab Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—contd.			
3—CONSERVANCY AND WORKS			
<i>—contd.</i>			
II.—Timber and other Produce removed from the Forests by consumers or purchasers	1,938 5 0	202 12 0	6,470 11 6
Establishment charges recoverable from other Governments, Departments, etc. ....	.....	.....	.....
Deduct Establishment charges recoverable from contractors etc. on account of pay of Depot-officers, etc. ....	.....	.....	.....
Total, B—II	1,938 5 0	202 12 0	6,470 11 6
III.—Live-stock, stores, tools and plant—			
a. Purchase of cattle .....	.....	.....	.....
b. Feed and upkeep of cattle .....	.....	.....	.....
c. Purchase of stores, tools and plant	775 11 0	182 8 0	303 0 3
d. Customs duty .....	.....	.....	.....
Total, B—III	775 11 0	182 8 0	303 0 3
IV.—Communications and Buildings—			
a. Railways and Tramways .....	.....	.....	.....
b. Roads and bridges (other than those in connection with Railways and Tramways)	3,441 8 0	.....	503 0 0
c. Buildings	11,317 5 4	2,022 15 6	761 11 0
d. Other works	84 2 6	33 8 0	10 0 0
Total, B—IV	14,942 0 0	2,046 7 6	1,274 11 0
V.—Organization, improvement and extension of Forests—			
a. Demarcation	90 0 0	559 15 0	204 0 0
b. Forest Settlement .....	.....	7,147 5 0	.....
c. Surveys .....	.....	.....	.....
d. Working Plans .....	.....	.....	.....
e. Plantations	1,064 0 0	45 8 0	.....
f. Reproduction	8,206 1 0	1,005 5 0	5,954 4 6
g. Fire protection	5,250 12 0	.....	60 0 0
h. Other works .....	.....	554 10 0	4,351 10 0
Total, B—V	14,610 13 0	9,312 8 0	10,559 14 6
VI.—Miscellaneous—			
a. Rent of leased forests and payments to shareholders in forests managed by Government .....	.....	3 1 6	68,588 8 11
b. Licenses .....	.....	.....	660 0 0
c. Grant Compensation allowance .....	.....	.....	.....
d. Clothing	1,308 10 0	5,428 7 8	9,534 6 0
e. Famine Fodder charges .....	.....	.....	.....
f. Other charges	195 0 6	10 8 0	330 11 0
Total, B—VI	1,713 10 6	5,440 1 0	77,433 9 11
VII.—Suspense—			
a. Work advances .....	.....	.....	.....
Total, B—VII .....	.....	.....	.....
VIII.—Demarcation of boundaries (between British territory and Indian States).	100 0 0	.....	.....
Total, B—CONSERVANCY AND WORKS	6,70,061 14 3	30,893 4 6	1,76,338 11 11

of the different Divisions for the financial year 1917-18— contd.

Satara Division	Working Plans Division, C. C.	Division.	Division.	Total for the year 1917-18
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,361 4 0	9,973 0 6
.....
.....
1,361 4 0	9,973 0 6
.....
.....
346 1 0	1,607 4 3
.....
346 1 0	1,607 4 3
.....
.....
60 0 0	4,004 8 0
1,836 0 0	15,938 0 0
40 4 0	167 14 6
1,936 4 0	20,110 6 6
.....
.....
381 4 0	1,205 3 0
.....	7,147 5 0
.....
.....
29 0 0	1,738 3 0
509 1 6	19,674 12 0
444 19 0	5,745 8 0
24,743 12 0	29,750 0 0
26,077 13 6	60,560 15 0
.....
.....
5,361 7 9	71,963 2 3
.....	660 0 0
.....
7,214 7 0	27,063 14 6
.....
76 0 0	542 3 6
12,861 14 9	1,00,239 4 3
.....
.....
.....
.....	10, 0 0
.....
55,669 6 9	9,53,003 3 5

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head	Direction Division	Belgaum Division	Poona Division	Kolaba Division
EXPENDITURE—contd.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
C.—ESTABLISHMENTS				
A.—General Direction.				
I.—Pay of Officers—				
a. Chief Conservator or Conservators.	{ Charged ... 15,050 0 0 Voted ... 2,645 12 0	.....	.....	.....
b. Superior Officers plus Personal and special pay.	{ Charged Voted ... 2,799 1 0	.....	3,934 3 0	7,591 3 0
Superior Officers plus Personal and special pay.	{ Voted ... 2,799 1 0	7,233 13 0	3,934 3 0	7,591 3 0
Personal Assistant to the Chief Conservator plus special pay.	{ Voted ... ..	.....	.....	.....
c. Leave Salary	{ Charged Voted ... 593 13 0	.....	.....	.....
Total, C—I	{ Charged ... 15,050 0 0 Voted ... 6,038 9 0	7,233 13 0	3,934 3 0	7,591 3 0
II.—Pay of Establishment—				
a. Subordinate Forest and Depôt Establishment plus special and personal pay	.....	96,994 6 0	77,533 12 0	75,016 13 0
b. Office Establishment plus special and personal pay	9,711 1 0	18,146 7 0	14,792 5 0	13,186 3 0
c. Proficiency allowance	.....	.....	.....	.....
d. Temporary Establishment plus special pay	3,378 9 0	13,514 8 0	2,370 6 0	3,509 13 0
e. Leave Salary	991 6 0	8,115 14 0	5,616 13 0	6,298 13 0
Total, C—II	14,081 0 0	1,36,771 3 0	98,363 4 0	98,011 7 0
III.—Allowances, Honoraria, etc.—				
a. Compensatory Allowances.	{ Charged ... 155 0 0 Voted ... 1,853 7 0	2,770 14 0	400 0 0	2,274 14 0
b. Travelling allowance.	{ Charged ... 2,789 13 0 Voted	18,603 4 0	15,915 5 0	20,460 9 0
(c) Placeme allowance	{ Voted ... ..	.....	.....	.....
d. House-rent allowance.	{ Charged ... 1,170 6 0 Voted	1,090 15 0	5,370 12 0	5,553 10 0
e. Forest training	.....	.....	.....	.....
(f) Dearness allowance	6,812 4 0	82,470 15 0	61,267 9 0	72,310 2 0
g. Cost of passages granted under the Superior Service Rules, 1911 (Charged).	.....	.....	.....	.....
(d) Cost of living allowance.	{ Charged ... 619 11 0 Voted ... 1,182 9 0	1,438 5 0	545 1 0	1,515 9 0
Total, C—III	{ Charged ... 2,473 2 0 Voted ... 12,120 0 0	1,06,374 5 0	83,498 11 0	1,16,114 13 0
IV.—Contingencies—				
a. Stationery	8 14 0	109 1 0	28 5 0	332 2 9
b. Carriage of tents and records	276 2 0	241 3 0	163 2 0	638 4 0
c. Rents, rates and taxes	59 0 0	160 0 0	129 15 0	189 4 0
d. Service postage and telegram charges	1,250 4 0	2,703 15 6	1,598 10 0	4,055 12 3
e. Sundries	883 4 7	505 0 9	469 12 0	357 2 3
Total, C—IV	2,427 8 7	3,709 4 3	2,389 12 0	5,522 10 3
V.—Establishment charges recoverable from other Governments, Departments, etc.—	.....	.....	.....	.....
(e) Deduct—Amount recoverable from Raisingpur Estate on account of pay of Rangers, etc.	.....	.....	.....	.....
Establishment charges payable to Central Government	.....	.....	.....	.....
Establishment charges recoverable from contractors, etc., on account of pay of guards, etc.	.....	.....	.....	.....
Total, C—V	.....	.....	.....	.....
TOTAL C—ESTABLISHMENT	52,190 3 7	2,64,088 9 3	1,88,188 14 0	2,27,240 1 3

of the different Divisions for the financial year 1947-48—contd.

Sabara Division	Working Plans Division, C. C.	Division	Division	Total for the year 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	15,060 0 0
.....	2,045 13 0
.....
5,320 0 0	26,878 4 0
.....
244 0 0	837 13 0
5,564 0 0	15,050 0 0
.....	30,361 12 0
51,964 0 0	3,01,458 12 0
9,933 12 0	63,769 12 0
.....
13,143 4 0	38,916 8 0
5,473 9 0	26,496 7 0
80,514 9 0	4,27,741 7 0
.....
2,241 16 0	14,859 12 0
.....	1,855 7 0
14,564 6 0	78,533 5 0
.....
1,734 5 0	16,019 14 0
.....
50,226 7 0	2,73,067 6 0
.....
1,176 4 0	619 11 0
.....	5,566 12 0
.....
70,312 3 0	2,473 2 0
.....	3,58,420 0 0
.....
61 14 0	540 4 9
206 7 0	1,525 2 0
19 12 0	497 15 0
.....
1,260 9 0	11,559 3 9
724 0 9	3,889 4 4
2,984 10 9	17,011 13 10
.....
.....
.....
.....
.....
1,59,353 6 0	8,81,068 2 10

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head	Direction Division	Belgaum Division	Poona Division	Kolaba Division
EXPENDITURE—contd.				
E—POST WAR RECONSTRUCTION AND DEVELOPMENT PROGRAMME.				
E (i) I—				
<i>a</i> ... ..	.....	.....	.....	.....
<i>f</i> ... ..	.....	.....	.....	.....
<i>g</i> ... ..	.....	.....	.....	.....
<i>h</i> ... ..	.....	7,354 11 3	.....	.....
Total E (i) I ... ..	.....	7,354 11 3	.....	.....
E (i) III—c ... ..	.....	.....	.....	.....
E (i) IV—f	13 9 6	13 8 0	.....	.....
Total E (i)	13 9 6	7,568 3 3	.....	.....
Establishment.				
E (ii)—				
<i>I a</i> (Voted)	6,900 0 0	.....	.....	.....
<i>b</i> (Voted)	1,512 0 0	1,685 6 0	.....	.....
Total E (ii) I	8,412 0 0	1,685 6 0	.....	.....
E (ii) II—d				
<i>d</i>	981 2 0	3,099 14 0	.....	.....
<i>e</i>	3 6 0	79 8 0	.....	.....
Total E (ii) II ... ..	.....	.....	.....	.....
E (ii) III—				
<i>a</i>	—90 0 0	110 0 0	.....	.....
<i>b</i>	4,263 10 0	1,998 6 0	.....	.....
<i>d</i>	3 5 9 0	116 8 0	.....	.....
<i>i</i>	628 5 0	1,714 12 0	.....	.....
<i>j</i> (ii)	1,481 0 0	411 5 0	.....	.....
Total E (ii) III	6,491 8 0	4,340 15 0	.....	.....
E (ii) IV—				
<i>a</i> ... ..	.....	.....	.....	.....
<i>b</i>	5 0 0	.....	.....	.....
<i>c</i> ... ..	.....	297 1 0	.....	.....
... ..	56 4 0	19 0 0	.....	.....
Total E (ii) IV	71 4 0	256 1 0	.....	.....
Total E (ii)	15,959 6 0	9,461 12 0	.....	.....
Total E (i) & (ii)	15,972 15 6	16,829 15 3	.....	.....
B—CONSERVANCY AND WORKS ... ..	.....	6,70,381 14 3	20,898 2 6	1,76,335 1 1
C—ESTABLISHMENT	52,199 3 7	2,54,088 9 3	1,88,155 14 0	2,27,240 1 1
E—POST WAR RECONSTRUCTION & DEVELOPMENT PROGRAMME.	15,972 15 6	16,829 15 3	.....	.....
GRAND TOTAL OF ALL EXPENDITURE	68,163 3 1	9,41,000 6 9	2,09,079 0 6	4,03,578 1 3
TOTAL REVENUE—NET	2,133 5 0	12,45,576 3 1	3,99,848 2 4	11,32,949 7 7
SURPLUS OR DEFICIT	—68,029 14 1	+3,04,576 12 4	+1,30,769 1 10	+7,19,370 1 1

of the different Divisions for the financial year 1947-48—contd.

Satara Division	Working Plans Division, C. C.	Division	Division	Total for the year 1947-48
Rs. a. p.	Rs. a. p.	Rs. . .	a. a. p.	Rs. a. p.
5 0 0	5 0 0
2,325 9 0	2,325 9 0
133 0 0	133 0 0
8,555 13 5	15,920 8 9
11,089 6 6	18,284 1 9
142 6 0	149 6 0
.....	27 1 6
11,178 12 6	18,560 9 3
.....	6,900 0 0
.....	3,197 6 0
.....	10,087 6 0
6,845 6 0	10,927 6 0
57 2 0	150 2 0
.....
175 0 0	195 0 0
1,546 15 0	7,508 15 0
320 13 0	745 14 0
4,680 15 0	6,924 0 0
.....	1,892 5 0
6,793 11 0	17,556 2 0
.....
105 0 0	5 0 0
12 8 3	343 1 0
.....	97 12 3
118 8 3	445 13 3
13,755 11 3	39,176 13 3
24,934 7 9	57,737 8 6
85,680 6 9	9,53,003 3 5
1,59,353 6 9	8,81,058 2 10
24,934 7 9	57,737 6 6
3,89 977 5 3	18,91,793 12 9
2,35,162 10 6	29,45,609 12 8
-34,814 10 9	+ 10,53,570 15 11

FORM No. 126.—*Summary of Revenue and Expenditure*

Budget Head	Direction	Kanara, Northern Division	Kanara, Eastern Division
SOUTHERN CIRCLE			
REVENUE—X, FOREST			
<i>I.—Timber and other produce removed from the forest by Government Agency—</i>			
a. Timber	.....	18,74,658 10 3	11,97,198 6 3
b. Firewood and Charcoal	.....	67,190 1 8	1,86,251 9 3
c. Bamboos	.....	.....	.....
d. Sandalwood	.....	40 0 0	47,445 4 8
e. Grass and other minor produce	.....	.....	.....
Total, I	.....	19,41,788 11 11	14,30,889 3 8
<i>II. Timber and other produce removed from the forest by consumers or purchasers—</i>			
a. Timber	.....	3,90,332 3 5	2,93,668 13 5
b. Firewood and charcoal	.....	2,574 8 0	1,752 2 0
c. Bamboos	.....	45,458 4 5	80,578 3 0
d. Grazing and fodder grass	.....	.....	.....
e. Other minor produce	.....	2,090 2 0	42,937 3 0
f. Other items	.....	.....	.....
g. Commutation fees	.....	.....	.....
Total, II	.....	3,70,454 1 10	3,67,935 6 5
<i>III.—Drift and waif wood and confiscated forest produce</i>			
Total, III	.....	.....	.....
<i>IV.—Revenue from forest not managed by Government—</i>			
a. Duty on foreign timber and other forest produce	.....	.....	.....
b. Revenue from shared and private forest	.....	.....	.....
Total, IV	.....	.....	.....
<i>V.—Miscellaneous—</i>			
a. Fines and forfeitures	.....	3,968 13 9	6,399 15 3
b. Refunds	0 8 0	1,863 13 3	909 5 2
c. Other sources	2,115 8 0	1,13,706 6 11	80,763 10 2
d. Recoveries of Establishment charges	.....	.....	.....
e. Leave Contributions	.....	155 18 11	.....
Total, V	2,115 6 0	1,19,694 25 10	89,069 14 7
<i>VI.—Transfer from Deposit account</i>			
Total, VI	.....	.....	.....
Gross Total, Revenue	2,115 6 0	24,31,999 13 7	18,86,868 7 8
Deduct Refunds	.....	18,721 7 10	16,857 9 8
Net Revenue	2,115 6 0	24,13,208 5 9	18,70,030 14 0
EXPENDITURE—10, FOREST			
B—CONSERVANCY AND WORKS.			
<i>L.—Timber and other produce removed from the forests by Government Agency—</i>			
a. Timber	2 4 0	10,45,999 13 2	5,15,793 14 0
b. Firewood and charcoal	.....	33,447 8 9	1,06,456 1 0
c. Bamboos	.....	1,708 11 0	.....
d. Sandalwood	.....	189 14 0	17,999 12 0
e. Grass and other minor produce	.....	45 0 0	.....
Total, B-I	2 4 0	10,81,399 14 11	6,41,249 9 0

of the different Divisions for the financial year 1947-48—contd.

Kanara- Western Division	Dharwar- Bijapur Division	Division	Division	Total for the year 1947-48
Bs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
4,71,477 10 10	1,36,901 0 2	.....	.....	35,80,128 11 5
5,144 13 7	2,34,532 7 0	.....	.....	4,93,118 15 6
2 8 0	.....	.....	.....	2 8 0
.....	2,41,074 5 2	.....	.....	2,89,169 9 5
4 0 0	76 4 0	.....	.....	80 4 0
4,76,629 0 5	6,13,184 0 4	.....	.....	41,02,455 0 4
1,95,557 14 9	1,13,140 2 0	.....	.....	9,21,669 1 7
2,31,524 2 4	3,93,273 4 0	.....	.....	6,21,124 0 4
5,261 11 5	13,521 8 0	.....	.....	94,816 10 10
5 0 0	188 8 0	.....	.....	173 8 0
11,882 4 0	18,286 0 0	.....	.....	75,195 9 0
.....
4,44,231 0 6	5,35,389 6 0	.....	.....	17,21,108 13 9
11 0 0	.....	.....	.....	11 0 0
11 0 0	.....	.....	.....	11 0 0
.....
.....
.....
370 5 0	1,747 8 0	.....	.....	12,476 10 0
699 7 0	31 4 4	.....	.....	3,994 0 9
17,382 12 1	30,196 15 3	.....	.....	2,44,163 15 5
.....	15 9 0	.....	.....	18 0 0
.....	90 5 0	.....	.....	246 2 11
18,342 8 1	32,063 9 7	.....	.....	2,00,369 6 1
.....
.....
9,39,213 9 0	11,83,636 15 11	.....	.....	64,41,901 4 2
.....	140 0 0	.....	.....	27,219 1 6
9,39,213 9 0	11,83,516 15 11	.....	.....	64,42,055 2 8
2,37,228 6 2	24,758 14 4	.....	.....	18,24,765 0 8
5,603 3 0	84,477 12 8	.....	.....	2,29,184 9 5
.....	.....	.....	.....	1,70 11 0
.....	22,386 2 0	.....	.....	40,575 19 0
.....	.....	.....	.....	45 0 0
2,42,831 8 2	1,31,622 12 0	.....	.....	20,17,097 1 1

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head	Direction	Kanara, Northern Division	Kanara, Eastern Division
		Rs. a. p.	Rs. a. p.
EXPENDITURE—10. FOREST—contd.			
B.—CONSERVANCY AND WORKS—contd.			
<i>II.—Timber and other produce removed from the forests by consumers or purchasers</i>			
.....	.....	784 9 0	3,155 15 0
Total, B-II ...	.....	784 9 0	3,155 15 0
<i>III.—Live Stock, Stores, Tools and Plant—</i>			
a. Purchase of cattle	.....	300 0 0	.....
b. Feed and upkeep of cattle	.....	844 0 0	.....
c. Purchase of stores, tools and plant	111 12 0	931 1 6	1,916 5 1
d. Customs Duty	.....	.....	.....
Total, B-III ...	111 12 0	2,045 1 6	1,916 5 1
<i>IV.—Communications and Buildings—</i>			
a. Railways and Tramways	.....	1,47,391 4 0	.....
b. Roads and bridges (other than those in connection with Railways and Tramways)	.....	85,614 15 10	74,820 14 9
c. Buildings	.....	19,252 4 8	5,777 8 11
d. Other works	.....	13,155 2 0	336 25 2
Total, B-IV ...	.....	2,65,343 10 6	80,935 1 10
<i>V.—Organisation, Improvement and Extension of Forests—</i>			
a. Demarcation	.....	.....	661 8 0
b. Forest Settlement	.....	569 4 0	.....
c. Surveys	.....	.....	.....
d. Working Plans	.....	.....	6 5 0
e. Plantations	.....	.....	.....
f. Reproduction	.....	49,952 1 0	40,645 5 0
g. Fire protection	146 10 0	55,194 14 6	20,741 3 0
h. Other works	.....	1,944 2 0	927 12 0
Total B-V ...	146 10 0	1,06,990 5 6	69,976 1 0
<i>VI.—Miscellaneous—</i>			
a. Rent of leased forests and payments to shareholders in forests managed by Government	.....	.....	.....
b. Law charges	.....	.....	.....
c. Grain compensation allowance	.....	.....	.....
d. Clothing	.....	2,045 10 11	3,398 7 3
e. Famine fodder charges	.....	.....	.....
f. Other charges	93 4 0	161 0 0	246 9 0
Total, B-VI ...	93 4 0	2,906 10 11	3,645 0 3
<i>VII.—Suspense—</i>			
a. Work advances	.....	.....	.....
Total, B-VII ...	.....	.....	.....
<i>VIII. Demarcation of boundaries (between British territory and Indian States)</i>			
.....	.....	79 8 0	523 6 0
Total, B-Conservancy and Works ...	353 14 0	14,58,840 12 4	7,94,401 6 2
C.—ESTABLISHMENTS			
<i>A—General Direction.</i>			
<i>I.—Pay of Officers—</i>			
a. Chief Conservator or Conservators	{ Charged ...	10,724 3 0	.....
	{ Voted ...	11,458 11 0	.....
b. Superior Officers plus personal and special pay	{ Charged ...	.....	7,359 11 0
	{ Voted ...	3,070 0 0	8,470 9 0
c. Leave Salary	{ Charged ...	.....	8,723 2 0
	{ Voted ...	.....	523 10 0
Total, I ...	{ Charged ...	10,724 3 0	7,359 11 0
	{ Voted ...	14,529 11 0	8,470 9 0
			9,046 14 0

of the different Divisions for the financial year 1947-48—contd.

Kadara, Western Division	Dharwar- Bijapur Division	Division	Division	Total for the year 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
16,547 8 1	1,094 8 6	.....	.....	21,582 8 7
16,547 8 1	1,094 8 6	.....	.....	21,582 8 7
.....	.....	.....	.....	300 0 0
1,080 4 6	229 5 2	.....	.....	844 0 0
.....	.....	.....	.....	4,238 12 3
1,080 4 6	229 5 2	.....	.....	5,362 12 3
.....	.....	.....	.....	1,47,321 4 0
59,331 0 11	8,665 10 0	.....	.....	2,21,722 9 6
5,390 0 3	7,953 7 9	.....	.....	38,373 0 7
149 3 0	55 0 0	.....	.....	13,696 4 2
57,870 4 2	16,964 1 9	.....	.....	4,24,113 2 3
909 8 0	370 14 0	.....	.....	1,984 14 0
.....	.....	.....	.....	669 4 0
.....	.....	.....	.....	6 5 0
.....	2,354 6 6	.....	.....	2,354 6 6
33,816 11 6	3,798 10 0	.....	.....	1,27,342 11 6
7,719 0 0	3,625 12 0	.....	.....	68,820 7 6
8,064 4 0	492 8 0	.....	.....	11,412 10 0
50,492 7 6	9,045 2 6	.....	.....	2,28,662 10 6
.....
.....
3,557 7 0	3,266 5 6	.....	.....	12,266 14 8
1,656 12 8	6,779 12 0	.....	.....	8,936 5 8
5,213 3 8	10,045 1 6	.....	.....	21,293 4 4
.....
.....
444 0 0	.....	.....	.....	1,046 14 0
8,74,779 4 1	1,69,001 0 5	.....	.....	27,97,076 5 0
.....	.....	.....	.....	10,724 3 0
.....	.....	.....	.....	11,469 11 0
.....	.....	.....	.....	7,357 11 0
9,345 15 0	4,384 18 0	.....	.....	33,994 7 0
.....	.....	.....	.....	323 12 0
.....	.....	.....	.....	18,083 14 0
9,346 15 0	4,384 18 0	.....	.....	45,777 14 0

FORM No. 126.—*Summary of Revenue and Expenditure*

Budget Head	Direction	Kanara, Northern Division	Kanara, Eastern Division
	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10. FOREST—contd.			
C.—ESTABLISHMENTS—contd.			
A—General Direction—contd.			
II.—Pay of Establishment—			
a. Subordinate Forest and Depôt Establishment plus special and personal pay	.....	73,022 15 0	55,810 14 0
b. Office Establishment plus special and personal pay	13,820 3 0	18,132 14 0	14,114 15 0
c. Proficiency allowance	.....	.....	.....
d. Temporary Establishment plus special pay	3,651 12 0	11,579 1 0	12,604 7 0
e. Leave Salary	1-6 8 0	7,037 14 0	4,470 8 0
Total, II	17,658 7 0	1,02,932 12 0	87,200 12 0
III.—Allowances, Honoraria, etc.—			
a. Compensatory allow- ances. { Charged ... { Voted ...	150 0 0	7,590 0 0	7,980 0 0
b. Travelling allow- ance. { Charged ... { Voted ...	1,855 10 0 4,555 9 0	1,534 14 0 21,176 15 0	19,219 6 0
c. Plague allowance Voted	.....	.....	.....
d. House rent allowance { Charged ... { Voted ...	.....	301 10 0	193 10 0
e. Forest Training	.....	320 11 0	.....
f. Dearness allowance	3,556 0 0	62,495 14 0	52,404 9 0
j. Cost of living allow- ance. { Charged ... { Voted ...	282 11 0	1-85 9 0 927 12 0	777 0 0
k. Cost of Condensed milk Supplied to Forest Subordinates Water Allowance	.....	63 0 0	.....
Total, III { Charged ... { Voted ...	1,898 10 0 11,844 4 0	2,531 7 0 93,178 14 0	..... 20,583 9 0
IV.—Contingencies—			
a. Stationery	64 8 6	54 4 0	554 0 3
b. Carriage of tents and records	632 7 6	256 9 3	960 1 0
c. Rents, rates and taxes	1,576 6 0	.....	11 0 0
d. Service postage and telegram charges	2,402 8 6	3,950 8 0	3,494 5 6
e. Sundries	1,270 4 6	405 4 9	630 3 4
Total, IV	6,316 3 0	4,696 10 0	5,628 10 1
V.—ESTABLISHMENT RECOVERABLE FROM OTHER GOVERNMENTS, ETC.—			
Deduct—			
a. Establishment charges payable to Central Government	.....	.....	.....
Deduct—Establishment charges recoverable from contractors, etc. on account of pay of guards, etc.	.....	.....	.....
Total, V	.....	.....	.....
TOTAL { C.—ESTABLISHMENTS ... { A.—GENERAL DIRECTION ...	66,004 6 0	2,26,369 15 0	1,82,459 13 1
E.—(i) VI COMMUNICATIONS AND BUILDINGS	.....	74 6 0	980 12 0
II.—(ii) VII COMMUNICATIONS AND BUILDINGS	.....	2,250 9 11	1,023 0 0
TOTAL E	.....	3,324 15 11	1,553 12 0
TOTAL 10 FOREST	66,358 4 0	16,88,535 11 3	9,75,814 15 8
SURPLUS OR DEFICIT	-61,242 14 0	+7,24,672 10 6	+8,91,215 14 8

of the different Divisions for the financial year 1947-48—contd.

Kanara, Western Division	Dharwar- Bijapur Division	Division	Division	Total for the year 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
69,841 7 0	59,006 12 0	.....	.....	3,56,742 0 0
19,259 15 0	12,219 13 0	.....	.....	71,647 12 0
.....
12,977 15 0	13,927 13 0	.....	.....	54,841 0 0
61,7 10 0	5,763 6 0	.....	.....	23,545 14 0
1,01,286 15 0	90,817 12 0	.....	.....	4,06,796 10 0
.....
7,505 0 0	5,220 0 0	.....	.....	25,754 0 0
22,934 6 0	13,001 0 0	.....	.....	3,443 8 0
.....	.....	.....	.....	85,887 4 0
400 4 0	2,672 3 0	.....	.....	.....
.....	.....	.....	.....	3,567 11 0
66,524 8 0	64,530 15 0	.....	.....	320 11 0
.....	.....	.....	.....	2,53,914 14 0
1,017 8 0	434 0 0	.....	.....	1,286 9 0
.....	.....	.....	.....	3,498 15 0
.....	.....	.....	.....	63 0 0
.....	3 0 0	.....	.....	8 0 0
.....
98,461 10 0	93,921 2 0	.....	.....	4,730 1 0
.....	.....	.....	.....	3,78,009 7 0
.....
203 8 0	119 5 3	.....	.....	1,024 10 0
208 14 0	266 5 0	.....	.....	2,324 4 9
81 12 0	959 15 6	.....	.....	3,032 1 6
.....
3,000 3 0	3,900 0 0	.....	.....	16,047 9 0
954 7 9	2,153 15 0	.....	.....	5,396 3 4
4,445 19 9	6,704 8 3	.....	.....	27,824 12 7
.....
.....
.....
.....
2,13,560 4 9	1,92,828 3 9	.....	.....	8,81,322 10 7
.....
.....
.....	135 0 0	.....	.....	1,140 9 0
.....
1,581 0 0	.....	.....	.....	5,854 9 11
1,521 0 0	135 0 0	.....	.....	5,994 11 11
.....
5,83,620 8 10	3,61,964 4 2	.....	.....	38,85,293 11 6
+3,49,533 0 2	+8,21,552 11 9	.....	.....	+27,22,791 7 2

FORM NO. 126.—*Summary of Revenue Expenditure of the*

Budget Head.	Direction.	Division	Division	Division
		Silviculturist	W. Plans S. C.	W. Plans C. C.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Research and Working Plan Circle (E—Post-war.)				
REVENUE—X, FOREST.				
<i>I.—Timber and other produce removed from the Forest by Government agency—</i>				
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Sandalwood
e. Grass and other minor produce.
Total I
<i>II.—Timber and other produce removed from the Forest by consumers or purchasers.—</i>				
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Grazing and fodder grass
e. Other minor produce
f. Other item
g. Commutation fees
Total II
<i>III.—Drift and waif wood and confiscated Forest produce—</i>				
Total III
<i>IV.—Revenue from Forest not managed by Government—</i>				
a. Deputy on foreign timber and other Forest produce.
b. Revenue from shared and private Forest.
Total IV
<i>V.—Miscellaneous—</i>				
a. Fines and forfeitures
b. Refunds
c. Other sources
d. Recoveries of establishment charges.
Total V
Cross total Revenue
Deduct Refunds
Net Revenue

FORM No. 126.—Summary of Revenue Expenditure of the

Budget Head	Direction	Division	Division	Division
		Silviculturist	W. Plans S. C.	W. Plans C. C.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—				
10, FOREST—contd.				
E—POST-WAR RECONSTRUCTION PROGRAMME.				
E. (1)—CONSERVANCY AND WORKS.				
E. (1) I.—Organization, improvement and extension of Forests—				
a. Demarcation
b. Forest Settlement
c. Surveys
d. Working Plans	1,10,879 14 3	340 6 6
e. Plantations
f. Reproduction	178 0 0
g. Fire protection
h. Other works	19 8 0	.....
Total I	1,10,892 6 3	518 6 6
E. (1) II.—Communications and Buildings—				
a. Railways and Tramways
b. Roads and bridges (other than those in connection with Railways and Tramways).
c. Buildings
d. Other works
Total II
E. (1) III.—Live-stock, stores, tools and plant—				
a. Purchase of cattle
b. Feed and upkeep of cattle
c. Purchase of stores, tools and plant.	2,911 15 0	829 0 0	9,652 11 11	.....
d. Customs duty
Total E (1) III	2,911 15 0	829 0 0	9,652 11 11	.....

Form No. 126.—Summary of Revenue and Expenditure of the

Budget Head	Direction	Division Silviculturist	Division W. Plans S. C.	Division W. Plans C. C.
EXPENDITURE—10, FOREST— <i>contd.</i>	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
<i>E (i) IV.—Miscellaneous—</i>				
a. Rent of leased forests and payments to shareholders in forests managed by Government.	.....	.....	.....	.....
b. Law charges	.....	.....	.....	.....
c. Grain Compensation allowance.	.....	.....	.....	.....
d. Clothing	.....	231 0 0	.....	.....
e. Famine Fodder charges	.....	.....	.....	.....
f. Other charges	.....	12,081 0 0	.....	.....
Total VI	.....	12,302 0 0	.....	.....
Total E₁ (i) Conservancy and Works.	2,911 15 0	13,131 0	1,20,545 2 2	578 6 5
E (ii) ESTABLISHMENTS				
A. GENERAL DIRECTION.				
<i>E (ii) I.—Pay of Officers—</i>				
a. Chief Conservator or Conservators.	10,010 0 0	.....	.....	.....
b. Superior Officers + Personal and special pay (Charged).	3,762 9 0	520 0 0	7,706 1 0	.....
{ Superior Officers + Personal and special pay (Voted).	.....	.....	.....	.....
{ Person I Assistant to the Chief Conservator + special pay (Voted).	.....	.....	.....	.....
c. Leave Salary { Charged	.....	.....	.....	.....
{ Voted	141 15 0	.....	.....	.....
Total I { Charged	.....	.....	.....	.....
{ Voted	13,914 8 0	520 0 0	7,706 1 0	.....
<i>E (ii) II.—Pay of Establishment—</i>				
a. Subordinate Forest and depot Establishment + special and personal pay.	.....	.....	1,762 12 0	.....
b. { Office Establishment + special and personal pay.	.....	.....	117 11 0	.....
{ Office Establishment	.....	.....	.....	.....
c. Proficiency allowance	.....	.....	.....	.....
d. Temporary Establishment + special pay	3,762 5 0	4,954 0 0	16,925 19 0	19,452 13 0
e. Leave salary	44 7 0	93 0 0	273 13 0	.....
Total II	8,806 12 0	5,047 0 0	19,080 0 0	19,452 13 0

different Divisions for the financial year 1947-48—contd.

Division W. Plans N. C.	Division W. Plans Kanara	Division	Division	Total for 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
.....
.....
76 2 0	287 2 0
.....
.....	12,081 0 0
76 2 0	12,378 2 0
.....
.....
2,685 9 0	5,294 14 0	.....	.....	1,49,896 14 8
.....
.....	10,010 0 0
6,792 10 0	4,665 2 0	.....	.....	23,416 6 0
.....
.....
22 7 0	164 6 0
.....
6,815 1 0	4,665 2 0	.....	.....	33,620 12 0
.....
5,762 12 0	7,515 8 0
2,126 14 0	2,244 9 0
.....
.....
1,357 1 0	5,019 11 0	.....	.....	61,371 10 0
338 10 0	749 14 0
16,475 6 0	5,019 11 0	.....	.....	71,691 9 0

FORM No. 125.—Summary of Revenue Expenditure of the

Budget head	Direction	Division Silviculturist	Division W. Plans S. C.	Division W. Plans C. C.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
REVENUE—				
10. FOREST—contd.				
<i>E. (ii) III.—Allowances Honoraria, etc.—</i>				
Bonus	270 0 0	.....	580 0 0	225 0 0
a. Compensatory allowances ..	.....	135 0 0	.....	.....
b. Travelling allow- ance. { Charged { Voted	6,574 2 0	1,365 0 0	11,229 8 0	7,374 11 0
c. Plague allowance. Voted ...	.....	.....	.....	.....
d. House rent allow- ance. { Charged { Voted	524 3 0	392 0 0	5 0 0	997 4 0
e. Forest training ... ..	.....	.....	4,504 9 0	.....
f. Grain compensation ... ..	.....	.....	.....	.....
g. Cost of Living allowance ...	2,071 1 0	.....	540 12 0	856 10 0
h. Payments on account of Dearness allowance.	4,5 6 0 0	2,427 0 0	8,688 13 0	6,649 5 0
Total III ... { Charged { Voted	14,275 6 0	4,319 0 0	25,498 10 0	15,602 14 0
<i>IV.—Contingencies—</i>				
a. Stationery	15 11 0	.....	236 1 0	.....
b. { Carriage of tents and records { Other Non-contract contin- gencies.	209 5 0	.....	2 12 0	.....
c. Rents, rates and taxes	406 8 0	.....	247 6 0	.....
d. Service postage and telegram charges.	1,410 6 0	.....	300 0 0	.....
e. Sundries	378 12 6	.....	372 8 0	.....
Total IV	2,411 10 6	.....	1,155 13 0	.....
<i>V.—Establishment charges recover- able from other Governments Departments, etc.—</i>				
a. { Deduct amount recoverable { from Baisingpur Estate on { account of pay of Rangers, { etc.	.....	.....	.....	.....
{ Establishment charges pay- { able to Central Govern- { ment.	.....	.....	.....	.....
{ Deduct establishment { charges recoverable from { contractors, etc., on { account of pay of guards, { etc.	.....	.....	.....	.....
Total V ... ..	.....	.....	.....	.....
Total E. (ii) Establishment ...	39,408 4 6	9,886 0 0	53,443 8 0	34,055 11 0
Add Total E. (i)	2,911 15 0	13,131 0 0	1,20,545 2 2	519 6 6
Grand total of "E"	42,320 3 6	23,017 0 0	1,73,988 10 2	34,574 1 6

FORM No. 126.—Summary of Revenue and Expenditure of the

Budget Head	Direction	Division Silviculturist	Division W. Plans S. C.	Division W. Plans C. C.
Research and Working Plans Circle (B & C).				
REVENUE—X FOREST.				
<i>I.—Timber and other produce removed from the Forest by Government agency—</i>				
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Sandalwood
e. Grass and other minor produce.	592 0 0	.....	.....
Total	592 0 0	.....	.....
<i>II.—Timber and other produce removed from the Forest by consumers or purchasers—</i>				
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Grazing and fodder grass
e. Other minor produce
f. Other items
g. Commutation fees
Total II
<i>III.—Drift and waif wood and confiscated Forest produce.</i>				
Total III
<i>IV.—Revenue from Forest not managed by Government—</i>				
a. Duty on foreign timber and other Forest produce.
b. Revenue from shared and private Forest.
Total IV
<i>V.—Miscellaneous—</i>				
a. Fines and forfeitures
b. Refunds	54 0 0	.....	16,41 9 8	61 15 0
c. Other sources	1,691 14 4	.....
d. Recoveries of establishment charges.
Total V	54 0 0	.....	3,333 7 7	61 15 0
Gross Total Revenue	54 0 0	592 0 0	3,333 7 7	61 15 0
Deduct—Refunds
Net Revenue	54 0 0	592 0 0	3,333 7 7	61 15 0

FORM No. 126.—*Summary of Revenue and Expenditure of the*

Budget Head	Direction	Division Silviculturist	Division W. Plans S. C.	Division W. Plans C. C.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10				
FOREST—contd.				
B.—CONSERVANCY AND WORK.				
<i>I.—Timber and other produce removed from the Forests by Government agency—</i>				
a. Timber
b. Firewood and charcoal
c. Bamboos
d. Sandalwood
e. Grass and other minor produce.
Total B-I
<i>II.—Timber and other produce removed from the Forests by consumers or purchasers.</i>				
Establishment charges recoverable from other Governments, Departments, etc.	3 6 0
Deduct.—Establishment charges recoverable from contractors etc. on account of pay of Depot-Officers, etc.
Total B-II	3 6 0
<i>III.—Live-stock, stores, tools and plant—</i>				
a. Purchase of cattle
b. Feed and upkeep of cattle
c. Purchase of stores, tools and plant.	2 6 6 6	87 3 6
d. Custom duty
Total B-III	296 6 6	87 3 6
<i>VI.—Communications and Buildings.—</i>				
a. Railways and Tramways
b. Roads and bridges (other than those in connection with Railways and Tramways).
c. Buildings
d. Other works
Total B-IV
<i>V.—Organization, improvement and demarcation of Forests—</i>				
a. Demarcation
b. Forest Settlement
c. Surveys
d. Working Plans	2,125 0 0	.....
e. Plantations
f. Reproduction
g. Fire protection
h. Other works
Total B-V	2,125 0 0	.....

FORM No. 126—Summary of Revenue and Expenditure of the

Budget Head	Direction	Division Silviculturist	Division W. Plans S. C.	Division W. Plans C. C.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—				
10. FOREST—contd.				
VI.—Miscellaneous—				
a. Rent of leased forests and payments to shareholders in forests managed by Government.	.....	.....	.....	.....
b. Law charges	.....	.....	.....	.....
c. Grain Compensation allowance.	.....	.....	.....	.....
d. Clothing	.....	.....	9 10 9	118 5 0
e. Famine Fodder charges	.....	.....	.....	.....
f. Other charges	0 1 0	.....	.....	.....
Total B-VI	0 1 0	.....	9 10 9	118 5 0
VII.—Suspense—				
a. Work advances	.....	.....	.....	.....
Total B-VII	.....	.....	.....	.....
VIII.—Demarcation of boundaries (between British territory and Indian States).				
Total B-Conservancy and Works	0 1 0	.....	2,411 11 9	208 14 6
C.—ESTABLISHMENTS				
A.—GENERAL DIRECTION				
I.—Pay of Officers—				
a. Chief Conservator or Conservators.	.....	.....	.....	.....
b. Superior Officers+Personal and special pay (Charged).	.....	.....	.....	.....
Superior Officers+Personal and special pay (Voted). Personal Assistant to the Chief Conservator+special pay (Voted).	975 7 0	3,368 0 0	12,485 5 0	8,873 0 0
c. Leave Salary { Charged ... { Voted ...	1,071 4 0	1 0 0	.....	930 10 0
Total I { Charged ... { Voted ...	2,046 11 0	3,259 0 0	12,485 5 0	9,803 10 0
II.—Pay of Establishment—				
a. Subordinate Forest and depot Establishment+special and personal pay.	.....	7,24 0 0	4,255 0 0	.....
Office Establishment+special and personal pay. Office Establishment.	.....	2,960 0 0	1,496 14 0	1,942 15 0
c. Proficiency allowance	.....	.....	.....	.....
d. Temporary Establishment+special pay.	763 7 0	24 0 0	1,518 8 0	917 14 0
e. Leave Salary	29 15 0	.....	1,080 15 0	612 10 0
Total II	793 6 0	10,808 0 0	8,311 6 0	3,473 7 0

different Divisions for the financial year 1947-48—contd.

Division W. Plans N. C.	Division W. Plans Kanara	Division	Division	Total for 1947-48
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....
.....
.....
.....	7 11 3	.....	.....	116 5 6
.....
.....	.....	.....	.....	0 1 0
.....	7 12 3	.....	.....	116 5 6
.....
.....
.....
.....	27,816 5 0	.....	.....	30,437 0 3
.....
.....
.....	8,090 12 0	.....	.....	33,642 6 0
.....
.....	.....	.....	.....	2,002 14 0
.....	8,090 12 0	.....	.....	35,645 4 0
.....
.....	1,910 2 0	.....	.....	13,999 2 0
.....
.....	1,061 10 0	.....	.....	7,451 7 0
.....
.....	7,664 2 0	.....	.....	10,887 15 0
.....
.....	175 7 0	.....	.....	1,849 1 0
.....	10,812 5 0	.....	.....	34,196 9 0

of the different Divisions for the financial year 1947-48—contd.

Division W. Plans N. C.	Division W. Plans Kanara.	Division.	Division.	Total for 1947-48.
Rs. a. p.	Rs. a. p.			Rs. a. p.
.....	1,086 0 0	.....	.....	1,420 0 0
.....	.....	.....	.....	420 0 0
.....	8,376 14 0	.....	.....	23,407 10 0
.....
.....	35 0 0	.....	.....	1,418 5 0
.....	544 7 0	.....	.....	644 7 0
.....
.....	852 0 0	.....	.....	4,165 7 0
.....	5,479 9 0	.....	.....	16,962 13 0
.....
.....	16,472 14 0	.....	.....	48,608 10 0
.....	142 14 10	.....	.....	186 8 10
.....	38 5 0	.....	.....	341 4 6
.....
.....	.....	.....	.....	2,661 2 0
.....	200 0 0	.....	.....	1,130 0 0
.....	43 14 0	.....	.....	2,008 9 0
.....	426 1 10	.....	.....	6,526 8 4
.....
.....
.....
.....
.....
.....	31,732 0 10	.....	.....	1,24,678 13 4
.....	27,816 5 0	.....	.....	30,437 0 3
.....	63,548 5 10	.....	.....	1,53,115 13 7
43,262 15 0	21,170 12 9	.....	.....	3,38,323 10 11
43,252 15 0	84,719 2 7	.....	.....	4,93,432 8 6
-43,252 15 0	-84,609 2 7	.....	.....	-4,89,168 1 11

FORM No. 126.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1947-48—contd.*

Budget Head	Direction.	Sawmills and W.P. Division.	Utilization Division.	Total for the year 1947-48.
	Rs. a p.	Rs. a p.	Rs. a p.	Rs. a p.
Utilization and Engineering Circle.				
REVENUE—X, FOREST.				
I.—Timber and other produce removed from the forest by Government Agency—				
a. Timber	.....	.....	.....	.....
b. Firewood and charcoal	9 6 0	.....	.....	9 6 0
c. Bamboos	.....	.....	.....	.....
d. Sandalwood	.....	.....	.....	.....
e. Grass and other minor produce.	.....	.....	.....	.....
Total, I	9 6 0	.....	.....	9 6 0
II.—Timber and other produce removed from the forest by con- sumers or purchasers—				
a. Timber	.....	.....	.....	.....
b. Firewood and charcoal	.....	.....	.....	.....
c. Bamboos	.....	.....	.....	.....
d. Grazing and fodder grass	.....	.....	.....	.....
e. Other minor produce	.....	.....	.....	.....
f. Other items	.....	.....	.....	.....
g. Commutation fees	.....	.....	.....	.....
Total, II	.....	.....	.....	.....
III.—Drift and waif wood and confiscated forest produce.				
Total, III	.....	.....	.....	.....
IV.—Revenue from forest not managed by Government—				
a. Duty on foreign timber and other forest produce.	.....	.....	.....	.....
b. Revenue from shared and private forests.	.....	.....	.....	.....
Total, IV	.....	.....	.....	.....
V.—Miscellaneous—				
a. Fines and forfeitures	.....	.....	.....	.....
b. Refunds	197 14 0	.....	.....	197 14 0
c. Other sources	19,324 9 9	5 0 0	.....	19,329 9 9
d. Recoveries of establishment charges.	.....	.....	.....	.....
Total, V	19,522 7 9	5 0 0	.....	19,527 7 9
GROSS TOTAL, REVENUE	19,531 18 9	5 0 0	.....	19,536 18 9
Deduct—Refunds	.....	.....	.....	.....
NET REVENUE	19,531 18 9	5 0 0	.....	19,536 18 9

FORM No. 126.—Summary of Revenue and Expenditure of the different Divisions for the financial year 1947-48—contd.

Budget Head	Direction.	Sawmills and W. P. Division.	Utilization Division.	Total for the year 1947-48.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST— contd.				
B.—CONSERVANCY AND WORKS— contd.				
VI.—Miscellaneous—				
a. Rent of leased forests and payments to shareholders in forests managed by Government.	.....	.....	.....	.....
b. Law charges ... ..	.....	.....	.....	.....
c. Grain compensation allow- ance.	.....	.....	.....	.....
d. Clothing	32 5 0	.....	.....	32 5 0
e. Famine Fodder charges ... ..	.....	.....	.....	.....
f. Other charges	217 0 0	54 0 0	17 11 0	288 11 0
Total, B-VI	249 5 0	54 0 0	17 11 0	321 0 0
VII.—Suspense—				
a. Work advances ... ..	.....	.....	.....	.....
Total, B-VII ... ..	.....	.....	.....	.....
VIII.—Demarcation of boundaries (between British territory and Indian States).				
TOTAL, B.—CONSERVANCY AND WORKS.	1,11,551 13 3	31,147 9 0	17 11 0	1,42,717 1 3
C.—ESTABLISHMENTS.				
A.—General Direction.				
I.—Pay of Officers—				
a. Conservators	2,300 0 0	.....	.....	2,300 0 0
b. Superior Officers plus personal and special pay. { Charged ... ..	.....	.....	.....	.....
{ Voted	7,927 1 0	1,520 0 0	819 10 0	10,326 11 0
c. Leave Salary { Charged ... ..	.....	.....	.....	.....
{ Voted	746 15 0	.....	.....	746 15 0
Total, I { Charged ... ..	.....	.....	.....	.....
{ Voted	11,034 0 0	1,520 0 0	819 10 0	13,373 10 0
II.—Pay of Establishment—				
a. Subordinate Forest and Depôt Establishment plus special and personal pay.	.....	.....	412 11 0	412 11 0
b. Office Establishment plus special and personal pay.	.....	.....	1,228 3 0	1,228 3 0
c. Proficiency allowance ... ..	.....	.....	.....	.....
d. Temporary Establishment plus special pay.	20,540 11 0	2,386 15 0	.....	22,926 10 0
e. Leave salary	893 12 0	.....	5 2 0	901 14 0
Total, II	21,434 7 0	2,386 15 0	1,549 0 0	25,469 6 0

FORM No. 126.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1947-48—contd.*

Budge Head	Direction.	Sawmills and W. P. Division.		Utilization Division.		Total for the year 1947-48.	
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		
EXPENDITURE—10, FOREST							
<i>—contd.</i>							
C—ESTABLISHMENTS—contd.							
III.—Allowances, Honoraria, etc.—							
a. Compensatory Allowance.	Charged	.....	.....	.....	.....	.....	.....
	Voted	1,560 0 0	—150 0 0	—270 0 0	.....	1,140 0 0	.....
b. Travelling Allowance.	Charged	.....	.....	.....	.....	.....	.....
	Voted	8,541 8 0	584 5 0	740 8 0	.....	10,146 0 0	.....
c. Plague allowance	Voted	.....	.....	.....	.....	.....	.....
d. House-rent allowance.	Charged	.....	.....	.....	.....	.....	.....
	Voted	.....	.....	677 7 0	.....	677 7 0	.....
e. Dearness allowance		8,526 11 0	1,305 14 0	830 1 0	.....	10,663 10 0	.....
f. Cost of living allowance.	Charged	.....	.....	.....	.....	.....	.....
	Voted	1,841 11 0	266 0 0	130 0 0	.....	2,232 11 0	.....
g. Cost of passages granted under the Superior Service Rules, 1921.		.....	.....	.....	.....	.....	.....
h. Payments on account of Medical treatment of British Officers of the "Superior Civil Service".		.....	.....	.....	.....	.....	.....
Total, III	Charged	.....	.....	.....	.....	.....	.....
	Voted	20,274 9 0	2,257 5 0	2,098 0 0	.....	24,859 12 0	.....
IV.—Contingencies—							
a. Stationery		67 10 0	.....	.....	.....	67 10 0	.....
b. Carriage of tents and records.		243 13 6	32 4 0	12 2 0	.....	288 3 6	.....
c. Rents, rates and taxes		50 0 0	.....	.....	.....	50 0 0	.....
d. Service postage and telegram charges.		1,133 8 6	100 0 0	0 6 0	.....	1,233 9 6	.....
e. Sundries		313 10 6	1 8 0	8 6 0	.....	323 8 6	.....
Total, IV		1,808 5 6	133 12 0	90 14 0	.....	1,992 15 6	.....
TOTAL, C—ESTABLISHMENT		24,771 5 6	6,326 14 0	4,577 8 0	.....	65,685 11 6	.....

FORM No. 126.—*Summary of Revenue and Expenditure of the different Divisions for the financial year 1947-48—contd.*

Budget Head	Direction.	Sawmills and W. P. Division.	Utilization Division.	Total for the year 1947-48.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST <i>—concd.</i>				
E.—POST-WAR RECONSTRUCTION.				
<i>—Pay of Officers—</i>				
a. Conservators	4,766 11 0	.....	.....	4,766 11 0
b. Superior officers	1,554 1 0	.....	.....	1,554 1 0
Total I	6,320 12 0	.....	.....	6,320 12 0
<i>I.—Pay of Establishment—</i>				
c. Proficiency allowance	120 0 0	.....	.....	120 0 0
d. Pay of Establishment	2,116 3 0	.....	.....	2,116 3 0
e. Leave salary	460 4 0	.....	.....	460 4 0
Total, II	2,696 7 0	.....	.....	2,696 7 0
<i>III.—Allowances, Honorary, etc.—</i>				
b. Travelling allowance	2,554 1 0	.....	.....	2,554 1 0
f. Dearness allowance	1,683 12 0	.....	.....	1,683 12 0
j. Cost of living allowance	752 11 0	.....	.....	752 11 0
Total, III	4,990 8 0	.....	.....	4,990 8 0
<i>IV.—Contingencies—</i>				
a. Stationery	26 15 11	.....	.....	26 15 11
b. Carriage of records	36 1 0	.....	.....	36 1 0
d. Service stamps	628 0 0	.....	.....	628 0 0
e. Sundries	51 12 0	.....	.....	51 12 0
Total, IV	742 12 11	.....	.....	742 12 11
TOTAL "E". POST-WAR RECONSTRUCTION AND DE.	14,750 7 11	.....	.....	14,750 7 11
GRAND TOTAL OF THE EXPENDITURES.	1,81,073 10 8	37,474 7 0	4,606 3 0	2,23,153 4 8
SURPLUS OR DEFICIT ...	-1,61,541 12 11	-37,469 7 0	-4,606 3 0	-2,03,616 6 11

FORM No. 126.—*Summary of Revenue and Expenditure of the
different Divisions for the financial year 1947-48—contd.*

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head.	General Division.	N. W. Circle.	North Eastern Circle.	Central Circle.
Bombay Province.				
REVENUE—X, FOREST.				
<i>I.—Timber and other produce removed from the Forest by Government Agency—</i>				
(a) Timber	3,41,485 3 0	1,09,948 2 6	2,39,548 9 9
(b) Firewood and Charcoal	18,261 10 8	76,314 10 0	6,68,968 13 6
(c) Bamboos	124 11 3	.....
(d) Sandalwood	108 6 3	62,198 2 5
(e) Grass and other minor produce.	83 12 6	222 0 0	247 7 0
Total, I	3,59,760 9 6	1,36,717 14 0	8,69,053 0 8
<i>II.—Timber and other produce removed from the Forest by consumers or purchasers—</i>				
(a) Timber	51,92,383 7 0	20,93,266 0 9	13,64,756 15 10
(b) Firewood and charcoal	17,588 10 6	3,11,711 6 3	6,92,754 11 6
(c) Bamboos	27,414 10 3	31,892 1 0	31,394 5 1
(d) Grazing and fodder grass	20,107 8 0	2,37,344 1 3	58,363 4 0
(e) Other minor produce	29,568 0 3	1,02,808 13 0	76,290 12 1
(f) Other items
(g) Commutation fees
Total, II	83,17,362 4 0	27,46,522 6 3	21,23,560 0 6
<i>III.—Drift and waif wood and confiscated Forest produce.</i>				
	2,340 3 0	2,336 5 0	.....
Total, III	2,340 3 0	2,336 5 0	.....
<i>IV.—Revenue from Forest managed by Government—</i>				
(a) Duty on foreign timber and other Forest produce.	28,156 14 0	.....
(b) Revenue from shared and private Forests.	8,814 12 2	.....	72 14 4
Total, IV	8,814 12 2	28,156 14 0	72 14 4
<i>V.—Miscellaneous—</i>				
(a) Fines and forfeitures	42,9 3 7 5	71,085 5 6	9,323 2 0
(b) Refunds	923 8 0	575 13 3	457 7 10
(c) Other sources	118 0 0	1,02,320 0 5	1,45,767 11 3	1,22,464 15 10
(a) Recoveries of establishment charges,	391 3 6	1,650 0 0	238 8 0
(e) Contribution towards leave salary and passage of officers lent to foreign Service.	11,538 5 0	.....	62 8 0	75 11 6
Total, V	11,656 5 0	1,46,625 3 5	2,17,141 6 0	1,32,569 12 5
Gross Total Revenue	11,656 5 0	88,34,956 0 1	31,82,914 13 3	31,45,255 12 2
Deduct—Refunds	54,015 3 6	86,783 7 0	1,99,555 15 6
Net Revenue	11,656 5 0	87,80,920 12 7	30,96,131 6 3	29,45,699 12 5

of the different Divisions for the financial year 1947-48—contd.

Southern Circle.	W. Plains and Research Circle.	U. and E. Circle.	Additional Director of Civil Supplies.	Province of Bombay Total for 1947-48.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
36,80,123 11 5	.....	.....	.....	43,71,155 10 8
4,33,118 15 6	.....	9 6 0	.....	11,54,663 7 6
2 8 0	.....	.....	.....	127 3 3
2,69,159 9 5	.....	.....	.....	3,71,405 2 1
80 4 0	552 0 0	.....	.....	1,205 7 0
44,62,435 0 4	592 0 0	9 6 0	.....	58,38,617 14 6
9,21,699 1 7	.....	.....	.....	1,25,64,105 9 2
6,29,124 0 4	.....	.....	.....	13,51,978 12 7
94,316 10 10	.....	.....	.....	1,59,317 11 2
173 8 0	.....	.....	.....	2,75,928 5 3
75,195 9 0	.....	.....	.....	3,03,353 2 4
.....
.....
17,21,008 13 9	.....	.....	.....	1,49,08,483 8 6
11 0 0	.....	.....	.....	4,687 8 0
11 0 0	.....	.....	.....	4,687 8 0
.....	.....	.....	.....	28,196 14 0
.....	.....	.....	.....	8,827 10 0
.....	.....	.....	.....	37,084 8 5
12,476 10 0	.....	.....	9,944 0 0	1,15,802 9 0
3,594 0 9	1,967 8 3	197 14 0	.....	7,576 1 1
2,44,163 15 5	1,691 14 4	15,329 9 9	1,21,561 12 0	7,87,420 15 0
18 9 0	.....	.....	.....	2,228 4 6
245 2 11	.....	.....	.....	11,921 10 11
2,60,299 6 1	3,659 6 7	19,527 7 5	1,31,508 12 0	9,21,990 11 6
64,43,904 4 2	4,251 6 7	19,533 13 2	1,31,553 12 0	2,13,97,700 7 6
35,719 1 6	.....	.....	.....	3,76,103 11 6
64,08,285 2 8	4,251 6 7	19,536 13 9	1,31,568 12 0	2,13,97,761 7 6

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head.	General Division.	N. W. Circle.	North Eastern Circle.	Central Circle.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10, FOREST.				
E.—CONSERVANCY AND WORK.				
<i>I—Timber and other produce removed from the Forests by Government Agency—</i>				
(a) Timber		5,54,117 8 0	15,929 3 9	2,37,616 0 6
(b) Firewood and charcoal		10,114 7 0	67,549 0 9	5,11,684 1 9
(c) Bamboos .....		.....	.....	216 0 0
(d) Sandalwood .....		.....	.....	10,832 2 9
(e) Grass and other minor produce.		95 0 0	.....	94 0 0
Total, B-I		5,64,396 15 0	83,478 4 6	7,60,422 5 0
<i>II—Timber and other produce removed from the Forests by consumers or purchasers—</i>				
Establishment charges recoverable from other Governments, Departments, etc. ....		.....	.....	.....
Deduct—Establishment charges recoverable from contractors etc. on account of pay of Depot-officers, etc. ....		.....	.....	.....
Total, B-II		1,79,348 9 0	45,609 1 6	9,973 0 6
<i>III—Live-stock, stores, tools and plant—</i>				
(a) Purchase of cattle .....		.....	.....	.....
(b) Feed and upkeep of cattle .....		.....	.....	.....
(c) Purchase of stores, tools and plant.	66 13 0	3,411 15 3	1,512 12 6	1,607 4 3
(d) Customs duty .....		.....	.....	.....
Total, B-III	66 13 0	3,411 15 3	1,512 12 6	1,607 4 3
<i>VI—Communications and Buildings—</i>				
(a) Railways and Tramways .....		.....	.....	.....
(b) Roads and bridges (other than those in connection with Railways and Tramways).		9,138 9 6	25,189 0 9	4,004 8 0
(c) Buildings		15,964 5 6	9,467 13 0	15,935 0 0
(d) Other works		4,752 9 0	370 0 6	167 14 5
Total, B-IV		99,855 8 0	34,926 14 3	20,100 6 6
<i>F—Organisation, improvement and extension of Forests—</i>				
(a) Demarcation		2,038 10 0	2,096 6 9	1,205 3 0
(b) Forest Settlement .....		.....	.....	7,147 5 0
(c) Surveys .....		.....	.....	.....
(d) Working Plans .....		.....	.....	.....
(e) Plantations		4,918 1 6	2,014 2 0	1,134 3 0
(f) Reproduction		1,13,961 4 0	5,674 1 6	15,674 12 0
(g) Fire protection		35,000 10 0	7,683 15 3	5,745 8 0
(A) Other works		9,448 8 3	2,919 8 0	29,650 0 0
Total, B-V		1,65,862 1 9	20,388 0 6	60,560 15 0

of the different Divisions for the financial year 1947-48—contd.

Southern Circle.	W. Plans and R. Circles.	Utilisation Engineering Circle.	Additional Director of Civil Supplies.	Province of Bombay Total for 1947-48.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
18,24,783 0 8 2,29,984 9 5 1,708 11 0 40,575 12 0 45 0 0	.....	1,34,852 1 6 ..... ..... ..... .....	.....	97,67,297 14 5 8,19,312 2 11 1,924 11 0 51,407 14 9 234 0 0
20,97,097 1 1	.....	1,34,859 1 6	.....	36,40,176 11 1
21,682 8 7	3 6 0	.....	.....	2,56,516 9 7
.....
21,682 8 7	3 6 0	.....	.....	2,56,516 9 7
300 0 0 844 0 0 4,238 12 3	..... ..... 383 10 0	..... ..... 4,981 4 3	..... ..... .....	300 0 0 844 0 0 16,302 7 6
.....
6,382 12 3	383 10 0	4,981 4 3	.....	17,346 7 6
1,47,921 4 0 2,21,792 9 6	.....	196 0 0	.....	1,47,921 4 0 2,60,250 11 9
38,873 0 7 13,596 4 2	.....	1,106 14 0 1,359 13 6	.....	50,850 1 1 20,136 9 5
4,24,113 2 3	.....	2,562 11 6	.....	5,68,555 10 6
1,934 14 0 569 4 0 6 5 0 2,354 6 6 1,37,942 11 6 85,830 7 6 11,412 10 0	..... ..... ..... 29,933 9 9 ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... ..... ..... .....	7,270 0 9 7,716 9 0 29,939 14 9 10,424 13 0 2,62,552 13 2 1,31,260 8 9 52,431 10
2,39,650 10 6	29,933 9 9	.....	.....	5,05,893 5 6

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head.	General Division.	N. W. Circle.	North Eastern Circle.	Central Circle.
EXPENDITURE—10.				
FOREST—contd.				
	Rs.	a.	p.	
VI.—Miscellaneous—				
(a) Rent of leased forests and payments to shareholders in forests managed by Government.	.....	2,999	14 0	..... 71,953 2 2
(b) Law charges	.....	400	0 0	..... 370 0 0 660 0 0
(c) Grain Compensation allowance.	.....	.....	.....	.....
(d) Clothing	.....	25,236	11 9	..... 27,281 4 6 27,083 14 6
(e) Famine Forder charges	.....	448	8 0	.....
(f) Other charges	180 0 0	719	2 6	..... 1,224 5 0 542 3 6
Total, B-VI	180 0 0	32,864	4 3	..... 28,575 9 6 1,00,239 4 2
VII.—Suspense—				
(a) Work advances	.....	251	2 0	.....
Total, B-VII	.....	251	2 0	.....
VIII.—Demarcation of boundaries (between British territory and Indian States).	.....	.....	20 0 0	..... 100 0 0
IX.—Charges recoverable from other Government Departments, etc.	.....	.....	90 0 0	.....
Total, B-Conservancy and Works...	246 13 0	9,74,918	3 3	..... 2,14,720 10 9 9,53,003 3 5
C. ESTABLISHMENTS.				
A. GENERAL DIRECTION.				
I.—Pay of Officers—				
(a) Chief Conservator or Conservators.	(a) 14,825 4 0	.....	.....	(c) 9,250 0 0 (c) 15,050 0 0
	(b) 16,371 0 0	.....	.....	(c) 7,844 11 0 (c) 2,645 12 0
(b) Superior Officers plus Personal and special pay (Charged).	.....	.....	.....	.....
{ Superior Officers plus Personal and special pay (Voted).	(c) 3,366 12 0	28,423	14 0	..... 24,980 7 0 26,875 4 0
{ Personal Assistant to the Chief Conservator plus special pay (Voted).	(a) 7,695 3 0	.....	.....	.....
(c) Leave Salary... { Charged	(a) 9,549 14 1	.....	.....	.....
{ Voted	(a) 4,261 4 3	.....	.....	.....
	(c) 5,63 7 3	1,262	1 0	..... 4,073 12 0 837 12 0
Total, I ... { Charged	(a) 24,475 2 1	.....	.....	..... 9,250 0 0 15,050 3 0
{ Voted	(a) 25,327 7 3	29,685	15 0	..... 36,898 14 0 30,361 12 0
	(c) 8,626 5 8	.....	.....	.....
II.—Pay of Establishment	.....	.....	.....	.....
(a) Subordinate Forest and depot Establishment plus special and personal pay.	.....	3,90,892	12 0	..... 2,72,209 3 0 3,01,553 12 0
(b) Office Establishment plus special and personal pay.	(a) 15,723 15 0	53,274	0 0	..... 67,300 2 0 69,769 13 0
(c) Office Establishment	.....	.....	.....	.....
(d) Proficiency allowance	.....	.....	.....	.....
(e) Temporary Establishment plus special pay.	(c) 744 0 0	17,903	1 0	..... 9,947 7 0 35,916 6 0
	(a) 5,791 13 0	.....	.....	.....
(c) Leave Salary	(a) 1,187 5 0	20,120	10 0	..... 23,241 7 0 26,496 7 0
	20,706 1 0	.....	.....	.....
Total II	(c) 744 0 0	4,82,187	7 0	..... 3,72,698 3 0 4,27,741 7 0
	(a) 73,508 10 4	.....	.....	.....

of the different Divisions for the financial year 1947-48—contd.

Southern Circle.	Working Plans and Research.	Utilization Engineering	Additional Director of Civil Supplies.	Bombay Province Total for 1947-48.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	.....	.....	74,953 0 2
.....	.....	.....	.....	1,430 0 0
12,266 14 8	116 5 6	32 5 0	.....	95,077 7 11
8,938 5 8	0 1 0	235 11 0	.....	488 8 0
21,213 4 4	116 6 6	321 0 0	.....	1,560 12 8
.....	.....	.....	.....	1,83,793 12 9
.....	.....	.....	.....	251 2 0
.....	.....	.....	.....	251 2 0
1,046 14 0	.....	.....	.....	1,166 14 0
.....	.....	.....	.....	90 0 0
27,97,076 6 0	30,427 0 3	1,42,717 1 3	.....	51,13,119 4 11
(c) 10,724 3 0	.....	.....	.....	(c) 35,024 3 0
(c) 11,493 11 0	.....	(c) 2,303 0 0	.....	(a) 14,525 4 0
.....	.....	.....	.....	(c) 24,250 2 0
.....	.....	.....	.....	(a) 10,571 0 0
(c) 7,359 11 0	.....	.....	.....	(c) 7,359 11 0
33,994 7 0	39,642 6 0	10,326 11 0	.....	(c) 1,61,557 13 0
.....	.....	.....	.....	(a) 7,695 3 0
.....
323 12 0	2,002 14 0	748 15 0	.....	(a) 0,649 14 1
.....	.....	.....	.....	(a) 4,61 4 3
.....	.....	.....	.....	(c) 11,526 9 8
(c) 18,033 14 0	.....	.....	.....	(a) 24.4 5 2 1
45,177 14 0	35,645 4 0	13,373 10 0	.....	(c) 42,353 14 0
.....	.....	.....	.....	(c) 23,27 7 3
.....	.....	.....	.....	(c) 2,00,379 8 8
2,55,742 0 0	13,999 2 0	412 11 0	.....	(c) 12,35,814 8 0
71,647 12 0	7,461 7 0	(c) 1,228 3 0	(c) 708 3 0	(c) 2,55,389 7 0
.....	.....	.....	.....	(a) 13,723 15 0
.....
54,841 0 0	10,887 15 0	27,926 14 0	.....	(c) 1,53,163 9 0
.....	.....	.....	.....	5,794 13 0
33,565 14 0	1,819 15 0	901 14 0	.....	(c) 96,176 3 0
.....	.....	.....	.....	(a) 1,187 5 0
.....	.....	.....	.....	(a) -0,706 1 0
4,96,756 10 0	34,195 7 0	25,469 6 0	703 3 0	(c) 17,05,343 11 0
.....	.....	.....	.....	(a) 73,508 10 4

FORM NO. 126.—Summary of Revenue and Expenditure

Budget Head.	General Direction.	N. W. Circle.	N. E. Circle.	Central Circle.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—				
10. FOREST—contd.				
<i>III—Allowances, Honoraria, etc.—</i>				
(a) Compensatory allowances.	(c) 95 0 0 (a) 3,744 14 0	33,224 14 0	22,510 13 0	14,852 13 0
(b) Travelling allowance.	Charged ... (a) 7,413 8 0 Voted ... (c) 1,217 4 0	.....	1,566 3 0	1,553 7 0
(c) Local allowance.	Voted ... (c) 1,217 4 0	88,712 5 0	82,919 11 0	78,633 5 0
(d) House-rent allowance.	Voted ... (a) 3,121 8 0 (c) 58,589 5 6	2,939 15 0 4,271 3 3	12,596 12 0	16,019 14 0
(e) Forest training	.....	.....	.....	.....
(a) Condensed Milk	.....	.....	.....	.....
(c) Cost of passages granted under the Superior Service Rules, 1924 (Charged).	(a) 2,480 0 0 (c) 2,266 0 0 (a) 1,930 0 0 (c) 11,366 0 0	.....	.....	.....
(1) Dearness allowance	(a) 9,556 11 0 (c) 628 9 0	2,97,542 7 0	2,31,462 5 0	2,73,067 6 0
(2) Cost of living allowance	Charged ... (a) 1,676 15 0 Voted ... (c) 1,319 0 4	.....	1,315 0 0	619 11 0
Total III	Charged ... (a) 6,224 14 0 Voted ... (c) 2,266 0 0 (a) 11,708 0 6 (c) 14,265 13 4	.....	2,991 3 0	2,474 2 0
<i>IV—Contingencies—</i>				
(a) Stationery	.....	403 7 0	462 3 0	540 4 9
(b) Carriage of tents and records	(a) 1,422 10 0	3,354 9 6	2,621 0 0	1,525 2 0
Other Non-contract contingencies	.....	.....	.....	.....
(c) Rents, rates and taxes	.....	3,069 4 3	311 13 6	497 15 0
(d) Service postage and telegram charges.	(a) 2,900 5 0	16,124 14 9	11,508 4 9	11,559 3 9
(e) Sundries	.....	4,283 7 9	4,405 13 5	2,620 4 4
Total IV	(c) (a) 4,322 15 0	27,240 11 3	19,762 2 11	17,011 13 10
<i>V—Establishment charges recoverable from other Governments, Departments, etc.—</i>				
(a) Deduct amount recoverable from Raisingpur State on account of pay of Rangers, etc.	.....	498 11 0	{ -2,221 15 0 -500 0 0 -12,950 0 0 }	R. D. Ex. D.
Establishment charges payable to Central Government.	.....	.....	.....	.....
Deduct establishment charges recoverable from contractors, etc., on account of pay of guards, etc.	.....	.....	.....	.....
Contribution for Forest Maps office, Dehra-Dun.	(a) 3,800 0 0	.....	.....	.....
Total V	(a) 3,800 0 0	498 11 0	15,771 15 0	.....
Total	{ C. Establishment ... 26,212 1 0 A. General Direction, 1,99,564 7 11	9,70,247 0 6	7,88,624 7 11	8,31,058 2 11

of the different Divisions for the financial year 1947-48—contd.

Southern Circle.	Working Plans and Research.	Utilization Engineering.	Additional fire to of Civil supplies.	Total for 1947-48 Bombay Province
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
28,757 0 0	1,910 0 0	1,140 0 0	90 0 0	92,580 7 0
3,443 8 3	.....	.....	.....	(a) 3,744 14 0
65,857 4 0	28,407 10 0	10,146 0 0	.....	(c) 6,973 2 0
.....	.....	.....	.....	(a) 1,413 9 0
.....	.....	.....	.....	(c) 3,792 5 0
3,567 11 0	1,418 5 0	677 7 0	97 14 0	.....
320 11 0	644 7 0	.....	(c) 125 0 0	(c) 125 0 0
.....	.....	.....	.....	(a) 2,121 8 0
.....	.....	.....	.....	(e) 4,310 0 0
63 0 0	.....	.....	.....	(a) 8,589 5 6
.....	.....	.....	.....	(c) 5,236 5 3
.....
.....	.....	.....	.....	63 0 0
.....	.....	.....	.....	(a) 2,480 0 0
.....	.....	.....	.....	(c) 2,265 0 0
.....	.....	.....	.....	(a) 1,560 0 0
.....	.....	.....	.....	(c) 11,306 0 0
2,55,914 14 0	16,992 13 0	10,673 10 0	250 0 0	(a) 9,976 11 0
1,786 9 0	.....	.....	.....	(c) 10,587 15 0
5,495 15 0	4,165 7 0	2,732 11 0	.....	(c) 3,221 4 0
.....	.....	.....	.....	(a) 1,676 15 0
.....
4,730 1 0	.....	.....	.....	(c) 3,179 2 4
.....	.....	.....	.....	(a) 5,24 14 0
.....	.....	.....	.....	(c) 12,45 6 0
3,76,009 7 0	48,508 10 0	24,689 12 0	492 14 0	(a) 1,117 8 0 6
.....	.....	.....	.....	(c) 16,44 2 7
1,024 10 0	185 8 0	67 10 0	.....	2,583 11 7
2,324 4 9	341 4 6	288 3 6	.....	(a) 1,422 10 0
.....	.....	.....	.....	(c) 10,454 5 3
3,032 1 6	2,661 2 0	50 0 0	.....	(c) 10,123 4 3
.....	.....	.....	.....	(a) 2,9 0 5 0
16,047 9 0	1,1 0 0 0	1,253 9 6	.....	(c) 57,623 9 9
5,396 3 4	2,708 9 0	323 5 5	.....	19,364 14 7
.....
27,844 12 7	6,325 8 4	1,982 15 6	.....	(a) 4,192 15 0
.....	.....	.....	.....	1,074 0 5
.....
.....	.....	.....	.....	16,170 10 0
.....
.....	.....	.....	.....	3,501 0 0
.....
.....	.....	.....	.....	(c) 16,170 10 0
8,81,222 10 7	1,24,078 13 4	65,065 11 6	1,801 1 0	47,33,350 0 8
.....	.....	.....	.....	1,90,554 7 10

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head.	General Direction.	N. W. Circle.	N. E. Circle.	Central Circle.
EXPENDITURE—10, FOREST —contd.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
"E" POST WAR RECONSTRUCTION AND DEVELOPMENT.				
I—CONSERVANCY AND WORKS.				
I.—Organisation, improvement and extension of Forests—				
(a) Demarcation ... ..	.....	.....	.....	5,000
(b) Forest Settlement ... ..	.....	.....	.....	.....
(c) Surveys ... ..	.....	.....	.....	.....
(d) Working Plans ... ..	.....	.....	.....	.....
(e) Plantations ... ..	.....	8,024 2 9	.....	.....
(f) Reproduction ... ..	.....	.....	.....	2,325 9 0
(g) Fire protection ... ..	.....	.....	.....	133 0 0
(h) Other works ... ..	.....	.....	.....	15,920 8 9
Total I ... ..	.....	8,024 2 9	.....	18,384 1 9
II.—Communications and Build- ings—				
(a) Railways and Tramways ... ..	.....	.....	.....	.....
(b) Roads and bridges ... ..	.....	.....	8,839 11 0	.....
(c) Buildings ... ..	.....	.....	.....	.....
(d) Other works ... ..	.....	84 5 0	.....	.....
Total II ... ..	.....	84 5 0	8,839 11 0	.....
III.—Live-stock Stores, tools and plants—				
(a) Purchase of cattle ... ..	.....	.....	.....	.....
(b) Feed and upkeep of cattle ... ..	.....	.....	.....	.....
(c) Purchase of stores, tools and plants. ... ..	.....	41 2 6	.....	149 6 0
(d) Customs duty ... ..	.....	.....	.....	.....
Total III ... ..	.....	41 2 6	.....	149 6 0
IV.—Miscellaneous—				
(a) Rents of leased forests and payment to shareholders in forests managed by Govern- ment. ... ..	.....	.....	.....	.....
(b) Law charges ... ..	.....	.....	.....	.....
(c) Grain Compensation allo- wance. ... ..	.....	.....	.....	.....
(d) Clothing ... ..	.....	.....	.....	.....
(e) Famine Fodder charges ... ..	.....	.....	.....	.....
(f) Other charges ... ..	.....	.....	.....	27 1 6
Total IV ... ..	.....	.....	.....	27 1 6
TOTAL "E" (I)—CONSERVANCY AND WORKS.	8,149 10 3	8,839 11 0	.....	18,560 9 3

of the different Divisions, for the financial year 1947-48—contd.

Southern Circle.	Working Plans and Research.	Utilization and Engineering.	Additional Director of Civil Supplies.	Total for 1947-48 Bombay Province.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	.....	.....	5 0 0
.....
.....
.....	1,18,925 2 6	.....	.....	1,18,925 2 6
.....	.....	.....	.....	8,024 2 9
.....	.....	.....	.....	2,325 9 0
.....	.....	.....	.....	153 0 0
.....	12 8 0	.....	.....	15,933 0 9
.....	1,16,937 10 6	.....	.....	1,45,345 15 0
.....
.....	.....	.....	.....	8,589 11 0
1,140 2 0	.....	.....	.....	1,140 2 0
.....	.....	.....	.....	84 5 0
1,140 2 0	.....	.....	.....	10,664 2 0
.....
.....
.....	13,593 2 2	.....	.....	13,783 10 8
.....
.....	13,593 2 2	.....	.....	13,783 10 8
.....
.....
.....
.....	297 2 0	.....	.....	297 2 0
.....
.....	12,250 0 0	.....	.....	12,286 1 6
.....	12,556 9 0	.....	.....	12, 83 3 6
1,140 2 0	1,46,086 14 8	.....	.....	1,81,776 15 3

FORM No. 126.—Summary of Revenue and Expenditure

Budget Head.	General Direction.	N. W. Circle.	N. E. Circle.	Central Circle.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—10.				
FOREST—contd.				
II—ESTABLISHMENT.				
I.—Pay of Officers—				
(a) Conservators ... { Charged
{ Voted	13,200 0 0	.....	6,900 0 0
(b) Superior Officers plus Personal and special pay ... Voted	3,152 7 0	.....	3,197 6 0
(c) Leave salary ... Voted
Total I ... { Charged
{ Voted	16,352 7 0	.....	10,097 6 0
II.—Pay of Establishment—				
(a) Subordinate Forests and Depot Establishment plus special and personal pay.	1,332 3 0	.....	.....
(b) Office Establishment plus special and personal pay.	14,777 13 0	.....	.....
(c) Proficiency allowance
(d) Temporary Establishment plus special pay.	10,527 6 0
(e) Leave salary	1,159 14 0	.....	130 2 0
Total II	17,263 14 0	.....	11,077 8 0
III.—Allowances, Honoraria, etc.—				
(a) Compensatory allowance. { Charged
{ Voted	332 14 0	.....	195 0 0
(b) Travelling allowance. { Charged
{ Voted	9,457 12 0	.....	7,805 15 0
(c) House rent allowance. Voted	78 11 0	.....	745 14 0
(d) Forest training
(e) Grain compensation
(f) Dearness allowance	8,519 5 0	.....	6,924 0 0
(g) Cost of living	2,326 0 0	.....	1,882 5 0
Total III ... { Charged
{ Voted	20,865 0 0	.....	17,556 2 0
IV.—Contingencies—				
(a) Stationery	64 2 0	.....	.....
(b) Carriage of tents and records...	445 7 0	.....	5 0 0
(c) Rents, rates and taxes	872 0 0	.....	343 1 0
(d) Services, postage and telegram charges.	3,101 3 3	.....	.....
(e) Sundries ...	31 8 0	1,521 12 5	.....	97 12 3
Total IV ...	31 8 9	6,004 8 8	.....	451 2 3
VII Construction of quarters at Maleria places special D.V.				
TOTAL II ESTABLISHMENT ... Voted	31 8 9	.....	.....	.....
TOTAL "E" POST WAR RECONSTRUCTION AND DEVELOPMENT.	31 8 9	68,511 7 11	8,339 11 0	57,737 6 0

of the different Divisions for the financial year 1947-48—contd.

Southern Circle.	Working Plans and Research.	Utilization and Engineering.	Additional Director of Civil Supplies.	Total for 1947-48 Bombay Province.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	10,010 3 0	4,766 11 0	.....	34,876 11 6
.....	23,146 6 0	1,554 1 0	.....	31,880 4 0
.....	164 6 0	.....	.....	164 6 0
.....	23,627 12 0	6,320 12 0	.....	66,421 5 0
.....	7,515 8 0	.....	.....	8,847 13 0
.....	2,244 9 0	.....	.....	17,022 6 0
.....	.....	120 0 0	.....	120 0 0
.....	61,371 10 0	2,116 3 0	.....	74,415 3 9
.....	749 14 0	460 4 0	.....	2,620 2 0
.....	71,851 9 0	2,636 7 0	.....	1,02,925 6 0
.....	1,210 0 0	.....	.....	1,727 14 0
.....	37,870 4 0	2,554 1 0	.....	57,961 0 5
.....	2,218 7 0	.....	.....	3,043 0 0
.....	4,504 9 0	.....	.....	4,504 9 9
.....	33,224 14 0	1,683 12 0	.....	50,351 15 0
.....	4,278 12 0	752 11 0	.....	9,370 2 0
.....	83,316 14 0	4,990 8 0	.....	1,26,668 8 0
.....	278 6 0	26 15 11	.....	379 7 11
.....	493 6 0	36 1 0	.....	379 14 0
.....	714 0 0	.....	.....	1,929 1 0
.....	2,010 6 6	678 0 0	.....	5,730 9 9
.....	911 6 3	51 13 0	.....	3,614 4 2
.....	4,417 9 3	772 12 11	.....	11,612 4 10
5,654 9 11	.....	.....	.....	68.4 9 11
5,8 4 9 11	1,93,236 12 3	14,759 7 11	.....	3,13,512 1 9
6,364 11 1.	3,38,323 10 11	14,750 7 11	.....	4,95,259 0 11

FORM No. 127.—Revenue received and

Division.	Particulars.	Outstandings at commencement of the year.	Value of sales and other Revenue during the year.
1	2	3	4
		Rs. a. p.	Rs. a. p.
NORTH EASTERN CIRCLE.			
East Nasik ...	Timber and other produce and revenue from various sources.	12,936 0 0	2,97,492 2 3
West Nasik ...	Do. ...	59,162 11 0	11,25,403 9 3
East Khandesh ...	Do. ...	42,371 0 3	5,08,390 10 5
West Khandesh ...	Do. ...	480 0 0	12,07,871 3 3
West Khandesh Sub-Division.	Do. ...	5,847 4 0	4,27,441 4 0
Direction ...	Do. ...	.....	2,555 0 0
Total, North Eastern Circle		1,20,745 15 3	35,59,558 13 3
NORTH WESTERN CIRCLE.			
Panch Mahals ...	Timber and other produce and revenue from various sources.	2,688 3 4	2,73,175 13 8
North Thana ...	Do. ...	1,36,860 5 9	33,49,612 10 0
East Thana ...	Do. ...	3,25,427 4 9	15,39,719 12 6
West Thana ...	Do. ...	3,14,026 14 0	21,50,217 9 6
Surat Sub-Division ...	Do. ...	76,140 14 0	8,14,744 9 1
Direction ...	Do. ...	.....	62 3 0
Total, North Western Circle		7,72,343 9 10	88,26,532 3 5
CENTRAL CIRCLE.			
Felgaum ...	Timber and other produce and revenue from various sources.	58,837 4 10	19,88,792 13 2
Kolaba ...	Do. ...	6,35,805 11 3	8,46,612 9 0
Poona ...	Do. ...	11,259 4 0	3,99,666 2 1
Satara ...	Do. ...	17,783 6 0	2,48,323 13 6
Direction ...	Do. ...	.....	2,133 5 0
Total, Central Circle		7,23,685 10 1	31,25,633 11 6

Outstandings on account of Revenue during 1947-48.

Total.	Amount realized during the year.	Balance due to the Department at the end of the year.	Remarks.
₹	₹	₹	
Rs. a. p.	Rs. a. p.	Rs. a. p.	
3,10,628 3 3	{ (a) 2,63,550 3 0 584 4 0	46,398 11 3	(a) Refund. (b) Write off.
11,84,571 4 3	{ (a) 10,46,374 7 3 1,608 9 0	1,38,588 4 0	(c) Deleted. (d) Errors corrected.
5,50,761 10 9	{ (a) 4,76,838 11 0 (b) 5,952 9 0 (c) 279 8 0 129 0 0	66,561.14 9	
19,05,301 3 3	{ (a) 9,11,600 2 0 69,664 0 0 9,94,047 15 0	1,27,137 1 3	
4,33,889 8 0	{ (a) 8,044 1 0 2,825 0 0	30,301 8 0	
9,855 0 0	{ (a) 30 0 0	.....
36,90,305 12 6	{ (a) 30,96,131 6 3 (b) 66,783 7 0 (c) 279 9 0 129 0 0	5,06,982 7 3	
9,83,064 1 0	{ (a) 9,60,196 5 4 (b) 1,937 7 6 181 3 9	50,639 0 5	
34,85,472 15 9	{ (a) 33,20,561 9 0 45,374 4 0 19,93,850 4 0	1,19,517 9 9	
17,75,147 1 3	{ (a) 2,040 0 0 (b) 344 8 3 22,46,335 5 2	3,78,982 5 0	
24,64,244 7 6	{ (a) 3,705 0 0 (b) 883 0 0 (c) 8,016 8 4 8,69,985 9 1	2,95,334 10 0	
8,90,885 1 1	{ (a) 958 8 0	19,941 0 0	
62 2 0	{ (a) 62 3 0	.....
95,98,875 13 7	{ (a) 87,50,920 12 7 (b) 54,015 3 6 (c) 1,358 12 0 8,016 8 4	7,54,564 9 2	
20,47,540 2 0	{ (a) 12,45,576 3 1 1,13,017 6 6	6,89,846 8 5	
14,82,418 4 3	{ (a) 11,22,949 7 9 84,890 7 0 3,39,818 2 4	3,74,578 5 6	
3,51,125 6 4	{ (a) 1,678 2 0	9,599 2 0	
1,66,107 3 6	{ (a) 2,35,162 10 6	30,944 9 0	
2,133 5 0	{ (a) 2,133 5 0	.....
41,40,324 5 1	{ (a) 29,45,669 12 8 1,00,855 12 8	10,04,000 0 11	

FORM No. 121—Revenue received and

Division.	Particulars.	Outstandings at commencement of the year.	Value of sales and other Revenue during the year.
1	2	3	4
		Rs. a. p.	Rs. a. p.
SOUTHERN CIRCLE.			
Kanara N. D. ...	Timber and other produce and revenue from various sources.	5,12,383 11 7	26,70,877 11 0
Kanara E. D. ...	Do. ...	2,45,139 6 0	12,61,026 8 9
Kanara W. D. ...	Do. ...	78,222 2 6	9,29,689 15 4
Dharwar-Bijapur ...	Do. ...	2,02,096 4 9	11,02,845 9 2
Direction ...	Do. ...	.....	2,115 6 0
Total, Southern Circle ...		11,42,901 9 10	66,26,455 0 3
UTILIZATION AND ENGINEERING CIRCLE.			
Direction ...	Various Sources ...	.....	19,531 12 9
Saw Mill and Wood ...	.....	.....	5 0 0
Preservation Division ...	.....	.....	.....
Total Utilization and Engineering Circle. and		.....	19,536 12 9
RESEARCH AND WORKING PLANS CIRCLE.			
Silviculture ...	Various Sources ...	.....	522 0 0
Working Plans, Southern Circle.	Do. ...	.....	3,233 7 7
Kanara Working Plans ...	Do. ...	.....	210 0 0
Working Plans, C. C. ...	Do. ...	.....	61 15 0
Direction ...	Do. ...	.....	154 0 0
Total Research and Working Plans Circle.		.....	4,251 6 7
Additional Director of Civil Supplies	Various ...	.....	1,21,508 12 0
General Direction ...	Various ...	.....	1,656 5 0
Grand Total, Province of Bombay.		27,53,677 12 0	2,26,14,928 1 7

Outstandings on account of Revenue during 1947-48—contd.

Total.	Amount realized during the year.	Balance due to the Department at the end of the year.	Remarks.
5	6	7	
Rs. a. p.	Rs. a. p.	Rs. a. p.	
31,98,261 6 7	24,13,208 5 9 (a) 18,721 7 10 (b) 3,039 8 8 (c) 975 0 0	7,47,317 0 4	
22,07,165 14 9	18,70,030 14 0 (a) 16,857 9 8 (b) 1,955 13 8	3,19,891 9 5	
10,68,372 0 10	9,39,213 9 9	1,39,158 7 10	
18,12,441 13 11	11,83,516 15 11 (a) 140 0 0	1,28,764 14 0	
2,115 6 0	2,115 6 0	
77,73,356 10 1	64,09,065 2 8 (a) 35,719 1 6 (b) 4,595 6 4 (c) 975 0 0	
19,531 13 9	19,531 13 9	
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19,536 13 9	19,536 13 9	
592 0 0	592 0 0	
3,383 7 7	3,383 7 7	
210 0 0	210 0 0	
61 15 0	61 15 0	
54 0 0	54 0 0	
4,261 6 7	4,261 6 7	.....
1,31,608 12 0	1,31,608 12 0	.....
11,556 5 0	11,556 5 0	.....
262,78,816 14 7	2,13,57,760 7 5 (a) 3,76,103 11 5 (b) 1,638 4 0 (c) 9,120 6 4 (d) 4,995 6 4	35,59,197 8 12	