ANNUAL REPORT

OF THE

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SUB-DEPARTMENT OF FORESTRY

FOR THE

YEAR 1946-47.

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HOOP PINE (Araucaria Cunninghamii).

A SOFTWOOD OF HIGH QUALITY—THE CHIEF SPECIES IN THE SOFTWOOD PLANTING PROGRAMME. This ple ntation is 16 years old, 70 feet high, and pruning of selected trees has been completed. The first merchantable thinning removed 5,000 s. ft, per acre leaving 17,000 s. ft,

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Report of the Director of Forests for the Year ended 30th June, 1947.

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INTRODUCTION.

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The logging and milling industry responded well to the demand for increased supplies of timber during the past year. Despite continued plant and labour difficulties, the mills cut 49,000,000 superficial feet of logs more than in the previous year. The increased output from Crown lands was 36,000,000 superficial feet, while private lands supplied an additional 13,000,000 superficial feet.

The total mill log cut for the year has only been once exceeded—in 1941-42, when some 5,000,000 superficial feet more timber was sawn. This performance is particularly creditable as it was achieved in spite of unfavourable weather conditions. To the end of January drought prevailed; and from January to the end of the year heavy rains were recorded. With normal weather there would have been no doubt that the log cut would have been considerably increased.

Of particular interest is the fact that the increased mill consumption of hardwood and Cypress Pine logs—the chief house-building timbers—was 36,000,000 superficial feet, representing more than 27 per cent. above the previous year's cut.

The figure for cabinet-woods shows an increase of 5,000,000 superficial feet, whilst 9,000,000 superficial feet of logs of miscellaneous species were utilised in excess of the previous year's total.

The Hoop Pine resource is rapidly disappearing, and logging operations are now concentrating on the scattered remnants. Under these circumstances, it is considered that maintaining the cut of the previous year was a satisfactory achievement.

Queensland was originally endowed with what was considered to be inexhaustible supplies of---

- (a) Hardwoods-pre-eminent for strength and durability-i.e., Grey Ironbark, Narrowleafed Red Ironbark, Tallowwood, Grey Gum, &c.;
- (b) Softwoods of outstanding quality—i.e., Hoop Pine, Bunya Pine and Kauri Pine; and
- (c) Cabinet-woods of special figure and texture—i.e., Red Cedar, Maple, Walnut, Silky Oak, Silver Ash, &c.

Unfortunately, the wood capital, the accumulated growth of centures, has been decimated. We must depend for our future supplies mainly on the annual growth. The forests must be regarded as tree farms and must be brought into a vigorous growing condition, so that the annual growth will provide an annual crop of wood sufficient to meet our yearly needs.

The forests have been culled of the best trees and the best species for so long that our timber requirements cannot continue to be supplied in first quality timber. For too long has the specification of "first class, free of all defect" prevailed.

The sawmills must operate on what remains in the forest—i.e., on defective trees of the better species and on species of lesser quality. But all this timber has its appropriate use.

Specifications must be altered to meet the altered circumstances and each timber must be applied to its proper use. To assist in this direction, the Forest Service has issued two publications :---

- (1.) North Queensland Building Timbers-Specifications for their Use;
- (2.) South Queensland Building Timbers-Specifications for their Use.

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The sapwood of many of our scrub timbers is liable to *Lyctus* borer attack and should be applied only to temporary uses, for which much timber is required. However, large quantities of this timber are well suited to many permanent uses if treated so as to immunise it against borer attack.

The Department has carried out research on this problem and is pleased to report that commercial plants have for some time been treating sawn timbers to immunise them against Lyctus attack. This forward step makes available for permanent use considerable quantities of timber which would formerly have been wasted.

The age of the big tree is rapidly passing. Many of the large trees now being logged have taken centuries to attain their present sizes. Before long large specimens will remain only in the "living museums"—i.e., the National Parks. It will never pay to grow trees to these dimensions in future, as it will be cheaper to synthesize large dimensions from small timber. Wide boards can be built up in the form of plywood, or as solid wood by means of jointers. Large trusses can be constructed by lamination and gluing of small sizes and even by nailing of small dimensions. The use of timber connectors allows of use of small sections in lieu of larger-dimension stock.

The small trees that are produced from early thinnings of plantations are yearly making a more effective contribution to our timber needs. During the year some 2,005,385 superficial feet of this class of timber was marketed, and the volume available annually should rapidly increase to about 10,000,000 superficial feet. After some hesitancy on the part of the trade in accepting plantation thinnings, recent sales have attracted considerable interest.

Queensland requires over 40,000,000 superficial feet of sawn timber each year to meet her box and case needs, and the maintenance of this supply presents considerable difficulties. Recently the Committee of Direction of Fruit Supply commenced a "Grow your own Fruit Cases" campaign in collaboration with the Department. In a short period the Department had received 164 applications from fruitgrowers for trees to plant 409 acres.

During the war planting operations were suspended, and the loss of this planting will have its effect on the yield of timber from plantations some eight to ten years hence.

It is pleasing to record that during 1946-47 it was possible to again resume planting, although not on a full scale. Shortage of suitable bush labour, particularly for scrubfelling work, was the limiting factor. It was a creditable performance in the circumstances to plant some 2,370 acres, and it is hoped that planting will reach its normal level in 1947-48.

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The reluctance of many potential employees to accept or remain on bush work has been most noticeable during the year. At one stage the employment of 1,100 men resulted in an increased staff of only 100; the remainder finding bush work not to their liking.

With this difficulty in securing labour, every endeavour is being made to mechanise operations as much as possible and substantial plant purchases were made during the year.

Tests of various types of wireless sets have been carried out and the Department is much closer to securing wireless equipment that will meet Queensland's needs in providing range, reliability, and mobility, plus an alarm system for contacting gangs in emergencies. These advances will contribute in particular to the protection of our forests against fire.

The Department is still endeavouring to acquire by repurchase much of the formerly alienated forest land that should form part of Queensland's permanent forest estate. 105;409 acres were added to the total of reserved forest during the year.

REFORESTATION.

Though it was possible by the close of the year to have built up a wages staffing on reforestation works to a strength numerically equal to that of pre-war, shortage of labour for certain of the higher-skilled operations has had an appreciable effect. In the softwood planting programme—the most important aspect of operations—this has been most evident. Although planting stock was available for well over 3,000 acres and this target was aimed at, the total planting for the year, because of inability to have further areas cleared, totalled only 2,369 acres.

It was possible, however, to restore all planted areas to a satisfactorily tended condition, while the leeway in pruning work has been largely overtaken.

Further sales of plantation thinnings were made, covering a total quantity of over 4,000,000 superficial feet. Removals under some sales had not commenced at the close of the year and the total quantity actually cut amounted to just over 2,000,000 superficial feet. The establishment of yield plots on the older planted areas has progressed sufficiently to enable the preparation of a ten-year thinning plan to be now undertaken.

Plots established some years ago on similar soil types have given results sufficiently encouraging to proceed with the conversion of the low-grade hardwood forest of the coastal country south of Maryborough to softwood plantations. Soil survey and nursery construction were put in hand and it is hoped to inaugurate a planting in the winter of 1948.

Work on the natural hardwood and Cypress Pine forests was stepped up considerably above last year's operations. Silvicultural treatment was accorded to approximately 55,000 acres, while the first planting of eucalypts to restock cleared areas in acquired forest lands was made near Pomona.

Protection works saw the addition of over 200 miles of new firebreak to the system.

THINNING OUT CASE TIMBER TO STIMULATE QUALITY TIMBER PRODUCTION.

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MARKING TREES TO BE REMOVED IN THE FIRST THINNING. The final crop will come from the best trees which have already been selected and pruned. The largest malformed trees, removed in the first thinning, produce much needed case timber.

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THE SAME AREA AFTER FIRST THINNING HAS BEEN COMPLETED IN THE FOREGROUND. 5,000 s. ft. per acre of merchantable timber has been removed. The growth will now be concentrated on the best trees, which will receive later thinnings, leaving outstanding trees to produce a valuable final crop. i i taka wala wa pangini kata ila da d

Orders were placed for the first of the automobile radio tranceivers built to this Department's specifications. These will be given trial in the next fire season.

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Expansion of operations necessitated the transfer of several of the officers engaged in land acquisition work to other duties. However, acquisition of many areas was completed during the year.

Thirty-two properties, totalling 20,387 acres, were secured by purchase at a cost of $\pounds 13,537$, while eight areas (19,288 acres) were resumed. Action was finalised during the year on resumed areas, totalling 5,039 acres, at a cost of $\pounds 4,131$.

During the past four years straight-out purchases of 65,600 acres (115 properties) at a cost of $\pounds44,670$ have been made. In the same period, 31 properties involving a total acreage of 47,957 have been resumed. Of the resumed areas, compensation on 16 properties (24,579 acres) has been finalised at a cost of $\pounds5,027$.

Reference was made last year to the generosity of two donors for their free grants of land for forestry purposes, and it is with considerable pleasure that I can report this year a generous offer by Mr. Inigo Jones of 100 acres of his property at Crohamhurst.

Forest inventory survey work was pushed ahead to the limit of the number of survey parties it was possible to build up. The first work of this nature was carried out on a Cypress Pine-Ironbark forest near Millmerran in 1940. Remeasurement of the plots was carried out during the war. With the co-operation of the Bureau of Industry, who have made available for this work their statistical recording machines and operators, the data are now being examined, but conclusions are not yet available.

As indicated above, reforestation employment has been gradually increased during the year, from 876 at 1st July, 1946, to 1,180 at 30th June, 1947, a figure of approximately that of 1941, but well below that necessary to carry out the projected programme. The difficulties associated with securing labour referred to in last year's report obtained this year also. A net increase of 86 took place between 1st January and 30th June, 1947 (1,338 to 1,424). During this period 929 new employees were engaged and 843 left the job. The net increase in reforestation staff during the same six months was only 40.

Plantations.-The total area of 2,370 acres planted for the year comprised-

•••	$1,530 \\ 57$
••	57
• •	596
	169
	17
	••

This brings the total plantings to 30th June, 1947, to 34,816 acres (details in Appendix I.). Planting conditions generally for the summer plantings were good, but for the first time it was necessary, in view of the dry winter of 1946, to discontinue planting at Glasshouse Mountains and tube the stock for later planting.

Tending of established areas covered an area of 13,556 acres, while 2,359 acres were pruned. Approximately 430 acres were merchantably thinned for the first time and yielded a cut of 2,005,000 superficial feet. This raises the plantation thinning yield to date to 6,562,000 superficial feet.

Nurseries.—Twenty-two nurseries were in plant production at the close of the year, while a start had been made on the construction of an additional nursery preparatory to initiation of softwood planting operations on the coastal country just south of Maryborough.

Nursery output for the year totalled 1,562,000 plants, while stock at 30th June, 1947, amounted to 6,576,000.

Supply of Trees to Public.—There was a growing demand for young trees for planting during the year, and it appears certain that this demand will continue to increase in 1947-48.

The major factor in this increase in tree consciousness is the "Grow Your Own Case Timber" campaign launched by the Committee of Direction of Fruit Marketing. This has resulted in orders for plants being received from all over the fruitgrowing sections of Queensland.

Interest in School Forestry Plots was well maintained and several new plots have been established.

Trees supplied to the public during 1946-47 were-

For establishment of plots	•• .	 79,052
Windbreaks, shade, ornamental, &c.	••	 14,866
School plots	••	 6,988

Seed Collection.—Approximately 200 lb. of *Pinus taeda* seed and 300 lb. of *Pinus caribaea* seed were collected during the year. The collection was entirely from selected parent trees, of good form and vigour. The seed collected is of particularly high quality, germination capacity ranging from 80 per cent. to 93 per cent.

Natural Forests.—Details of the area treated during the year are shown in Appendix J. Briefly, the position was—

• •	••	 · .					First Treatment.	Other than First Treatment.	Total.
Hardwood Cypress Pine	```` ••	 ••	·	•••	 	•••	Acres. 13,934 5,092	Acres. 32,322 3,755	Acres. 46,256 8,847
							19,026	36,077	. 55,103

The total acreage subjected to at least one treatment became 455,300 acres.

Research.—Forest Research has not yet been resumed on a full scale, but it is hoped that, with the return of a number of officers whose training was interrupted by war service and who are in their final year at Canberra, the work will be greatly expanded next year.

Once more all that was possible was to maintain existing long-term experiments and to establish a small number of additional experiments on urgent and important problems.

A second Free Growth experiment with P. taeda in the Beerwah district is now seven years old. Results to date conform strikingly with those given by the initial experiment which is now thirteen years old. Figures show that 250 stems per acre are no longer free growing at age seven years. There remain 12 plots which have been kept free from the zone of suppression, and it is hoped that these will enable data to be collected down to stocking of 40 to 50 per acre. The initial experiment involved only 10 plots in all and free growth observations finished at 160 per acre, which were in the zone of suppression at the end of the eighth year.

In the Brisbane Valley, too, Free Growth experiments with Hoop Pine have given consistent and interesting responses. The oldest of these is now 12½ years in age and a large-scale experiment was initiated in adjacent unthinned material of the same age which, in October, 1946, had been five years in the suppression zone. The response to all degrees of thinning was immediate and the most drastic treatment (reduced to only those stems which had been selected for carry-up pruning—170 per acre) doubled the girth increment of the unthinned. Increments were .86 inches unthinned and 1.71 inches select only.

All increments compared favourably with those given by corresponding spacings in the Free Growth plots.

Adequate plots are held for thinning on a merchantable basis when the stand is sufficiently developed.

In the Mary Valley, results from thinning experiments and from spacing and Free Growth plots have not shown the same response as in the drier Brisbane Valley. Openings in the stand are followed by vigorous growth of weed species, and this affords a possible explanation.

During the year the series of Yield Plots in plantations was extended to cover advanced stands in the Brisbane Valley and the Passchendaele areas. It is hoped that in the near future all plantations ten years or more in age will be covered by a $2\frac{1}{2}$ per cent. sample.

The use of arsenate of lead in seed beds to control white grub damage to Hoop Pine has passed the experimental stage. Stock from treated beds showed a relatively high quantity of arsenic trioxide in the plants and transferred to the field have given results which indicate that they remain unpalatable to the white grub in the field.

During the year one of the most severe droughts on record was experienced and data were assembled from school plots and forest districts throughout the State on the behaviour of the main plantation species. Hoop Pine was outstanding in its resistance to drought, and it is fortunate that this is the main species in the State's planting programme. Of the exotics in use to any extent, *Pinus patula* stood the drought better than did *Pinus caribaea*, which was better than *Pinus taeda*. *Pinus longifolia* has been planted only to a limited extent, but no losses were recorded with that species.

In coastal North Queensland, trial plantings were made with Balsa (Ochrama lagopus) in localities of favourable soil and rainfall.

Twenty-year-old trial plots at Maryvale, near Rockhampton, have given sufficiently encouraging results to warrant plans for the planting of the area sampled. It is interesting to record that one of the most promising species is *Pinus insularis*.

During the year large-scale experiments on the treatment of North Queensland rain forests were designed. These experiments open a new and wide field of forest research.

Planted on an old pineapple cultivation, a stand of 18,000 s. ft. per acre of merchantable wood has been grown in 8 years. PRIVATE PLANTATION OF PINUS TAEDA. TREATED NATURAL REGENERATION OF HARDWOOD, GYMPIE DISTRICT.

GROWING WOOD.

55,103 acres of hardwood and cypress pine were subject to natural regeneration treatment during the year.

The "Grow your own case timber" campaign initiated by the Committee of Direction of Fruit Marketing in conjunction with the Department has resulted in 164 applications for trees to plant 409 acres.

Protection.—Though conditions generally throughout the fire season did not constitute any very serious hazard, there were two periods—end of September and end of November —when the risk rose. The total area burnt over was relatively low, while the area of protected forest included in this total was also small. The only plantation loss was an area of 44 acres of Hoop Pine and Silky Oak in the Brisbane Valley district. This stand was sufficiently advanced to enable the logging of most of the stand.

The only other fire that caused serious worry was one which threatened the thinned Blackbutt stands at Mapleton. Though the fire burnt over about 4,000 acres, this was confined almost entirely to unprotected area and there was no loss in the younger treated area.

The stepping-up of staffing on the natural forests enabled a considerable expansion of firebreak construction and improvements works.

In summary, the main firebreak works carried out during the year were-

(1) Cleared Breaks (western forests).

(1)	Cleared Breaks (v	vestern	iores	ts).							
	Firebreak constr	uction—	-						Miles.		
	Cutting and	grubbir	ıg		• •	••	••		67.38		
	Stacking and	d burnir	ng	••			••		$73 \cdot 12$		
	Cutting aux	iliary ro	ads	••	••	••	••	••	$21 \cdot 46$		
	Firebreak improv	vement-									
	Grubbing ro	ads						••	26.44		
	Grading	••			••		••		30 ·80		
	Green strips	3	••	••	••		••	••	$247 \cdot 43$		
	Firebreak maint	enance-	_								
	Suckering a	nd burn	ing					••	920.10		
	Grading			••	••	••	••	••	$504 \cdot 10$		
(2)	Green Breaks (co	astal ha	rdwo	od area	raj—						
(-)	Firebreak constr				,	•				•	
	Felling dang	gerous tr	rees—	_							
	Stackin	g and b	urnin	1g				••	119.75		
	Firebreak impro			· · ·					37.25		
	Firebreak maint										
	Chipping an			na					1,060.30		
	Burning		Jugin	•••					671.00		
	Roads	••	• •						345.00		
(1)			•••••								
(3)	Cleared Breaks (1	•									
	Firebreak constr								00 F		
	Temporary	breaks f	for se	rub bu		••	••	_ • •	22.5	-	
	Clearing	••	••	••	••	••	••	••	39-4		
	Firebreak maint	enance-	_								
	Chipping	••		••	••	••	•• `	••	104.50		
	Ploughing		••	••	••	••	••	••	113.60		
	Burning						••	• •	116.10		

Capital Improvements.—Effort was continued to bring all buildings to a satisfactory condition of maintenance, but shortage of paint precluded work proceeding to this stage.

Construction was concentrated within the limits imposed by shortages of materials on improved industrial conditions for the wages staff. Galleys and bathrooms to new design were erected, while a start was made in the construction of barracks to house employees at permanent camps.

Expenditure and Labour.—Details of the expenditure on reforestation works for the year are shown in Appendix H.

The total-£402,751-which is the greatest annual expenditure to date, was comprised as follows:---

							£
Plantations					••		63,884
Natural regeneration		• • •				••	20,110
Nursery working expenses						• •'	16,593
Protection (including firefi		g)				••	111,632
Research		.,	••	••	••		2,047
Capital improvements	••				••		21,945
Surveys			• •		•••	••	4,228
Wet time, holidays, leave							50,385
Tools, tents, cartage, supe	rvisio	m					87,923
Workers' compensation							7,663
Pay roll tax							8,474
Miscellaneous	•••			••	•••	••	7,867
							£402,751

Expenditure on land acquisitions was £18,157.

The difficulties experienced in securing labour have been referred to previously. The figure of 1,180 engaged on reforestation works at the close of the year is slightly above the previous highest pre-war figure. Though expenditure was over $\pounds 100,000$ greater than any previous year the lower standard of labour and the very large turnover in men has resulted in considerably less effective work than in normal years.

RURAL FIRES.

"The Rural Fires Act of 1927" remained effective during the year, and, as has been the case since 1929, the Rural Fires Board was comprised of the members of the Forestry Board, with the Secretary of the Forestry Sub-Department as Secretary. All work under this Act is carried out by Government officers who do not receive any extra remuneration for their services.

A new Act, "The Rural Fires Act of 1946," was passed by Parliament, but has not yet been gazetted into force. The new Act aims at generally strengthening the control of rural fires. It provides for the organisation of bush fire brigades, with specific powers; strengthens the position of officers under the Act; gives wider scope for promp measures to be taken in case of outbreaks; and affords some protection for persons observing proper precautions.

During the year reports reached the Board's office of 144 outbreaks of fire-summarised as under :---

Acre or Less.	ł Acre to 10 Acres.	Over 10 Acres and under 100 Acres.	100 Acres and Over.
5	42	49	48

Magnitude of Fires-

Causes—

Lightning.	Camp Fires.	Smokers.	Debris Burning.	Railways.	Deliberate Burning.	Miscellaneous.	Unknown.
5	6	1	25	7	13	4	83

Total Reports-144.

Four offenders in cases of breaches of the Act were prosecuted and fines totalled £25.

FOREST SURVEYS.

Seven fully equipped survey camps operated throughout the financial year.

Total expenditure for survey work amounted to £14,487 15s. 8d., of which £10,260 3s. 6d. was chargeable against Harvesting and Marketing projects and the balance, £4,227 12s. 2d., against Reforestation projects.

As a result, 8,000 acres were dealt with by intensive contour and assessment survey, 220,332 acres were assessed, 23,558 acres were subjected to firebreak, compartment or soil survey, and 57,462 acres were closely inspected.

In addition, 2,107 plots were dealt with by Forest Inventory Survey (vide appendices to this report).

Miscellaneous district surveys and inspections, mainly concerned with planting and repurchase projects, were carried out as required.

Summary of mileage completed is given hereunder:---

~								Ml.	ch.
Compass and chain		••	••	••	••	••		455	74
Compass and step	••	••	••	••	••	••	••	2	37
Strip survey Old boundaries	••	••	••	••	••	••	••	820	56
Old Doundaries	••	••	••	••	••	••	••	38	25

Atherton District.—Three camps operated. One was engaged on Class 3 survey of approximately 8,000 acres on Kirrama State Forest (Res. 344, parish of Bankton), while isolated patches of jungle, amounting to 2,000 acres, were located and estimated on Kirrama Holding. In May, this camp was shifted to Reserve 350, Niagara (also at Kirrama), where a Class 2 survey is proceeding. The second camp completed the assessment of portions 531 to 534, 541 and 542, parish of Dirran (Millaa Millaa district), shifting to Reserve 353, Ongera (Ravenshoe district), towards the end of July. However, this work was temporarily suspended as an estimate of the McNamee Creek area (Res. 756, Jordan) was required. This survey was completed by 15th November, and camp was re-established on Reserve 353, Ongera, where survey is still proceeding. Field work was particularly arduous in rugged jungle and packhorses were used continuously. Miscellaneous survey work included the laying out of experimental plots on Reserve 185, Danbulla, and the opening up of boundaries on National Park 904, Palmerston.

The third camp, which was organised by 14th January, carried out a tree-to-tree estimate of portions 40, 57, 58, 60, 62, 217, Ravenshoe, and portions 10 and 24, Woodleigh. Camp was then shifted to Reserve 30, Garioch (Mount Molloy district), with instructions to carry out Class 2 survey of unassessed areas near Mount Fraser and Mount Lewis. This work was proceeding at the end of report period.

. .

Reserve	Numb	er.		· Parish.				Compass and Chain.		Strip S	Survey.	Old Boundarie	
								Miles.	Chains.	Miles.	Chains.	Miles.	Chains
53			Ongera					26	22	54	17		
56			Jordan				••	12	59	25	74 .	-	•
ortions			Dirran							23	25		•
04			Palmerston					6	13		•		•
44			Bankton					38	9	49	51		•
		•••	Kirrama Hol		••			22	39	16	49		•
50			Niagara					6	46		•	21	40
ortions			Ravenshoe		• •			2	19	104	24	7	43
0			Garioch	•••	•			\ 7	12		64	9	22

Details of mileage hereunder:------

Maryborough District.—Following a reconnaissance survey of 200,000 acres in the parishes of Ferguson, Walliebum, Vernon, Walsh, Elliot, South Head, Poona, Bidwell, Tahiti, and Cowra, involving 49 miles of soil strip survey, a camp was organised to operate on the sandy soils in the parishes of Poona and Bidwell. A nursery site was located on Big Tuan Creek and direct access road surveyed to the main Bidwell road. It was necessary to clear 24 miles of old timber roads and to locate and clear $17\frac{1}{2}$ miles of new motor tracks to obtain necessary access for survey operations.

At the end of the report period soil survey and estimate of 3,000 acres had been completed, involving 47 miles 76 chains of compass and chain traverse and 93 miles 19 chains of strip survey.

Miscellaneous surveys included compass and chain traverse of 6 miles 46 chains for plantations on Reserve 220, Kilkivan, and Reserve 298, Gallangowan (Manumbar), while 19 miles 25 chains of road survey were run on Reserve 435, Gundiah.

Gympie District.—From 1st July to 10th November camp was engaged on firebreak, compartment road surveys of 3,558 acres in the Tewantin repurchased areas. Assessment surveys of portion 49, King, area 714 acres, portion 260, Tuchekoi, area 176 acres, and inspection of plantable scrubs on Reserve 392, Como, were also made from this camp.

On 11th November camp was shifted to the Mary Valley, where a number of firebreak and planting surveys were carried out on Reserves 135 and 274, Cambroon (near Kenilworth).

On 19th March camp transferred to Reserve 124, Glastonbury, where firebreak survey was effected in respect to Moorooreerai, Falls, and Shacks logging areas. Field work was nearing completion at the end of the report period.

Reserve.			Par	ish.			Compass and Chain.		Strip Survey.		Compass	and Step
							Miles.	Chains.	Miles.	Chains.	Miles.	Chains.
Portions		Tewantin	• •				47	66		• • •	.	•
ortion 49		King					1	77	8	10		37
R. 135		Cambroon					6	67		•	2	31
₹. 135		Brooloo				••	15	64	•	•		• •
R. 274		Cambroon			•••	• •	2	38		• • • •		•
124		Glastonbury				• •	14	72	Ļ	60 20	(·	•
R. 242	· '	Widgee			·			42	1	63		• •
Portion 260		Tuchekoi			••		1	40		•		• •

Summary of work completed:-

In addition, 40 plots were located and established, while 110 plots were remeasured on Reserve 135, Brooloo, by a Forest Inventory Camp, which shifted to the Brisbane Valley district on 16th December.

Dalby District.—Two camps were engaged on Forest Inventory Survey, being mainly confined to remeasurement of established plots on Reserve 154, Brigalow, Reserve 150, Dunmore, and Reserve 16, Malcolm and Ballon. In addition, 89,266 acres were stripped and 6,000 acres of compartments redesigned and run, whilst 11,000 acres of Reserve 16, Ballon, were treated to compartment survey and 40,000 acres stripped.

Reserve Number.			Parish.						New Plots Re- . Plots. measured.	Compass	and Chain.	Strip Survey.	
]							Miles.	Chains.	Miles.	Chains
54			Brigalow	••	••	• •			173		. [
50	••		Dunmore	••		••	1		125		.		
6		••	Malcolm		•••				923	3	00		
£	••		Hookswood	••		••	ר ו <i>ו</i>			-	1		
7	••		Wongongera			• •	- 71		••	55	39	254	00
6	••		Brownlie	••	• •	••	- ()						•••
4, 16	• •	• •	Ballon				i	228		24	00	187	00

Summary of work is set out hereunder:---

NATIONAL PARKS.

Not the least important work entrusted to the Forestry Sub-Department is the care and management of National Parks.

The purpose of these reservations is cultural, and on a recognition of this fact the policy adopted by the Department has been based. Therefore, not only the recreational and scenic but also the educational and scientific aspects have been considered, and in reconciliation of all these the aim has been to preserve unspoiled and intact some fragments of Australian bushland and to give protection to its denizens.

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As the processes of clearing, ringbarking, and fire destruction continue, these areas, if they can be preserved along the years, will be of outstanding value and an increasing source of delight to educationists and scientists, of recreation to the workworn, and of enchantment to those who delight in the unmarred beauty of woods and waterfalls, peaks and cliffs, and lake, river, and shore.

Perhaps the chief value of the National Parks ideal, however, is in the uplifting effect on the national tone, in offsetting the blatant commercialism all too prevalent. Truly there are commercial values in the National Parks; these can be "cashed" and yet leave the country and its people immeasurably poorer. By wise use, these assets would not be squandered, but kept for all generations.

To achieve this, any "development" of the parks must be based on the cardinal principle that they must be preserved as far as possible in that simplicity and unspoiled beauty that makes them unique, and not formalised and cheapened to the level of hundreds of "tourist resorts" to be found everywhere throughout the world.

In this direction the policy of the National Parks Service of the United States of America—without doubt the most advanced in the world—is worthy of the most careful study, with a view to application of its successes and avoidance of its mistakes.

The year marked a very pleasing increase in activity in National Park work, and increased financial provision enabled the Department to carry out much needed repair and maintenance work on tracks and other works and as well to carry out some new construction. Heavy rains early in 1947 made maintenance costs high on all parks.

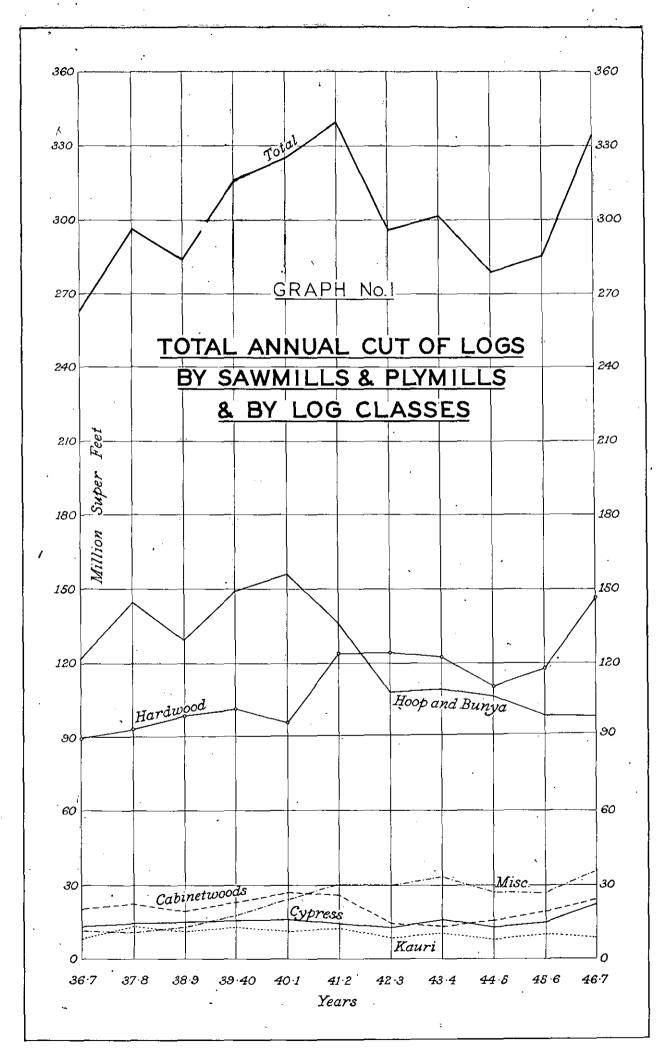
The parks on which work was done were-

Lamington.—Here, over 86 miles of track were maintained and 29 chains of new track were constructed. Track extensions have been located and pegged.

Tamborine.—New track construction included 14 chains at Joalah Park, 53 chains at Palm Grove (where a new lookout and picnic spot were made easily accessible) and 4 chains on the State Forest Beauty Spot at Cedar Creek Falls. Maintenance of $6\frac{1}{2}$ miles of track was carried out, while heavy infestations of lantana were eradicated. Extensions of tracks have been located.

Springbrook.—At Warree and Gwongorella National Parks 139 chains and 115 chains respectively of new tracks were constructed, while 9½ miles and 3¼ miles of track respectively were maintained. Track extensions have been marked.

Cunningham's Gap.—Completion of the track to the top of Mount Mitchell provides a highly interesting and scenic walk. In all, 117 chains of new track were made and 6 miles maintained. Owing to impermanency of Gap Creek, wells were located and sunk, good supplies of water being obtained for administrative and camping requirements.



Bunya Mountains.—New tracks constructed here totalled 198 chains and gave walks with panoramic views along the Eastern Cliffs, taking in the Big Falls. The road through the park was put into order and maintenance given to over 9 miles of tracks. Buildings and huts for administrative purposes were bought and re-erected.

Mount Glorious.—Tracks were made on Maiala National Park and on the Beauty Spot on the adjacent State Forest, totalling 36 and 155 chains respectively, while a mile of existing track was kept in order. An area of Maiala Park, cleared before its reservation, is being replanted. Heavy growths of the introduced lantana have been eradicated from this park.

Lake Eacham.—Restoration of rain damage and washaways during war years involved construction of 60 chains of track. Landing stage and bathing facilities at the lake were improved, while a new boatshed was provided. Lantana and wild tobacco are being removed.

Lake Barrine.—As at Lake Eacham, new construction was necessary to restore the former track system. In all, 120 chains were built, and the lake is completely encircled. Tobacco and lantana are being dealt with.

Green Island.—A new jetty was built, to replace that destroyed by cyclone in March, 1946, at a cost of £3,308 5s. Protective groynes were repaired. This work was carried out with customary efficiency by the Cairns Harbour Board's employees, and the Department's thanks are due to the Board and its officers, particularly Mr. A. C. Nicholson, engineer.

At the end of the year the length of tracks constructed and in good order on the various National Parks was as follows:-

					Chains.
				• •	6,935
Tamborine Mountain (Joalah) .					78
Tamborine Mountain (Palm Gro			••		313
Tamborine Mountain (R. 326 C	ledar (Creek)			4
Tamborine Mountain (McDonald			• •		60
Tamborine Mountain (Witch's I				• •	157
Springbrook (Warree)	•		• •	••	751
Springbrook (Gwongorella)	•	• •		••	256
Cunningham's Gap		••	••		585
Bunya Mountains					742
Mount Glorious		••	••		269
Lake Eacham					351
Lake Barrine			••	••	310
•					10,811 or 135 Miles.

In addition, there are several miles of tracks on Crater and Tully Falls National Parks (North Queensland), which will be put in order this year.

In all, £22,864 were spent on National Parks work in 1946-47, and £371 in supervision, inspections, and incidental expenses. The average number of men employed was 59 and at 30th June, 1947, 52 men were engaged on National Park work.

An additional ranger was added to the National Parks permanent force during the year.

HARVESTING AND MARKETING.

General.—Because of the great need for timber to meet urgent post-war requirements, every effort was made to increase production, with the result that the highest output of logs since 1941-42, when a record cut was established, was achieved. This achievement is regarded as satisfactory considering the shortage of fellers and unfavourable weather for logging which prevailed early in 1947. The Department and sawmillers have both had difficulty in securing the services of competent fellers, despite increases in the award rates.

The particular increase in production was in the timbers most vital to housing needs --the hardwoods and Cypress Pine. The following table indicates the trend in logging from Crown lands:---

	Species.				1940-41.	1941-42,	1946-47.	
Hoop and Bunya H Kauri Pine Cypress Pine Hardwoods Cabinet-woods Miscellaneous Plantation timbers	Pine 	· · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · ·	Super. Feet. 146,056,000 9,584,000 5,628,000 33,847,000 25,307,000 7,381,000	Super. Feet, 127,390,000 12,010,000 7,823,000 48,528,000 26,771,000 9,685,000 187,000	Super. Feet. 94,119,000 8,957,000 12,375,000 59,257,000 22,927,000 20,618,000 2,005,000	
Total	••	••			227,083,000	232,394,000	220,258,000	

CROWN MILL LOG CUT.

The marked increase in the cut of constructional timbers is most noticeable. The cut of Hoop and Bunya Pine and Kauri Pine and the cabinet-woods has decreased.

The heavy output of logs taxed the resources of the Railway Department in providing wagons, and although at times there was congestion of logs at some sidings it was not necessary to suspend logging activities.

The demand for logs by North Queensland sawmillers was particularly heavy and did not leave any surplus for sawmills in South Queensland, except Walnut for veneer purposes. The log cut from Crown lands in North Queensland was the highest that has yet been recorded—56,000,000 superficial feet. The previous highest figure was 46,000,000 superficial feet in 1941-42.

Mill Logs.—The following table indicates the total quantity of logs cut from Crown forests for each year since 1937-38, and reveals that over the last ten years the Crown forests have averaged an output of 205,000,000 superficial feet of log timber annually.

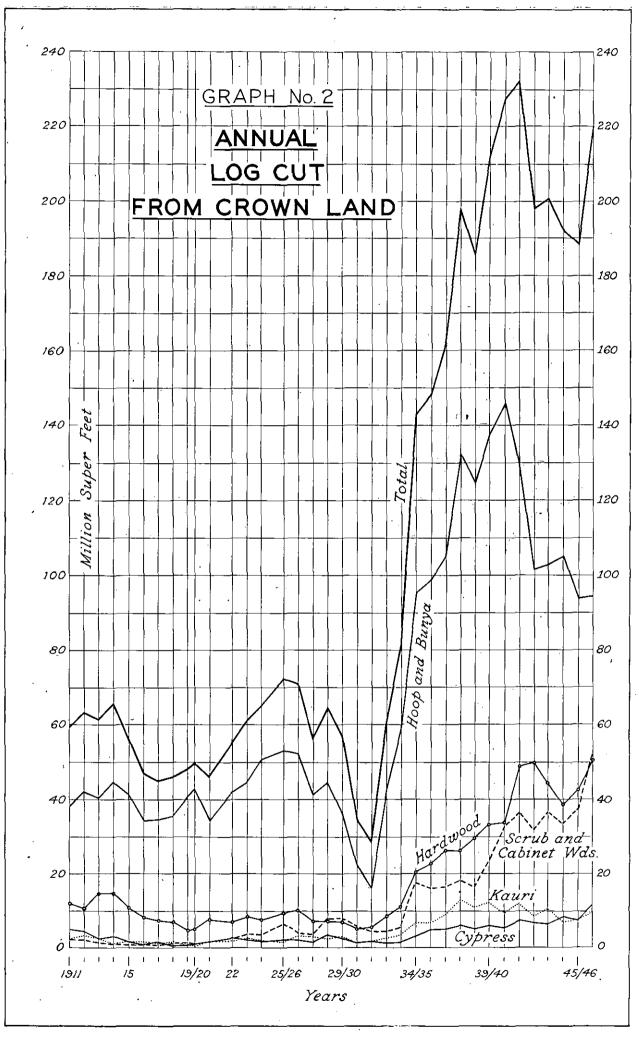
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								Super. feet.
1937-38					••	••		196,000,000
1938-39						• •		186,000,000
1939-40	••						••	212,000,000
1940-41						• •		228,000,000
1941 - 42							••	232,000,000
1942-43			• •		••			199,000,000
1943-44		•••				••	••	202,000,000
1944-45								193,000,000
1945-46						• •		190,000,000
1946-47				•••		••		220,000,000
		•		••		••		
		-						

			CR	OWN SALES.	
(a)	Mill Logs—			1945– 46 .	1946-47.
•••	Hoop and Bunya	Pine		93,703,000 super. feet	94,119,000 super. feet
	Forest Hardwoods			42,393,000 super. feet	51,029,000 super. feet
	Scrub Hardwoods			5,643,000 super. feet	8,228,000 super. feel
	Cypress Pine	• •	••	7,532,000 super. feet	12,375,000 super. feet
	Kauri Pine	••	••	7,798,000 super. feet	8,957,000 super. feel
	Cabinet Woods	••		16,315,000 super. feet	22,927,000 super. feel
	Miscellaneous Spec	ies	••	15,258,000 super. feet	20,618,000 super. fee
	Plantation Timbers	S	••	907,000 super. feet.	2,005,000 super. feel
1	otal Crown Mill Log	ţs	••	189,549,000 super. feet	220,258,000 super. fee
(b)	Constructional Tir	mbers			
(b)		mbers- Franso			
(b)	Headstocks, T			592,000 super. feet	813,658 super. fee
(b)	Headstocks, T Crossings Sleepers	Franso • •	••••••••••••••••••••••••••••••••••••••	552,000 pieces	813,658 super. fee 398,000 pieces
(b)	Headstocks, T Crossings	Franso • •	••••••••••••••••••••••••••••••••••••••	552,000 pieces 103,000 lineal feet	813,658 super. fee 398,000 pieces 120,000 lineal feet
(b)	Headstocks, T Crossings Sleepers Girders, Corbels, P Poles	Franso • •	••••••••••••••••••••••••••••••••••••••	552,000 pieces 103,000 lineal feet 309,000 lineal feet	813,658 super. fee 398,000 pieces 120,000 lineal feet 405,000 lineal feet
(b)	Headstocks, T Crossings Sleepers Girders, Corbels, F Poles House Blocks	Franso Piles, f	oms, Sills	552,000 pieces 103,000 lineal feet 309,000 lineal feet 293,000 lineal feet	813,658 super. fee 398,000 pieces 120,000 lineal feet 405,000 lineal feet 339,000 lineal feet
(b)	Headstocks, T Crossings Sleepers Girders, Corbels, P Poles House Blocks Mining Timbers	Franso Piles, †	oms, Sills 	552,000 pieces 103,000 lineal feet 309,000 lineal feet 293,000 lineal feet 377,000 lineal feet	813,658 super. fee 398,000 pieces 120,000 lineal feet 405,000 lineal feet 339,000 lineal feet 523,000 lineal feet
(b)	Headstocks, T Crossings Sleepers Girders, Corbels, P Poles House Blocks Mining Timbers	Franso Piles, f	50005, Sills 	552,000 pieces 103,000 lineal feet 309,000 lineal feet 293,000 lineal feet	813,658 super. fee 398,000 pieces 120,000 lineal feet 405,000 lineal feet 339,000 lineal feet
	Headstocks, T Crossings Sleepers Girders, Corbels, P Poles House Blocks Mining Timbers	Franso Piles, { 	oms, Sills 	552,000 pieces 103,000 lineal feet 309,000 lineal feet 293,000 lineal feet 377,000 lineal feet 137,000 pieces	813,658 super. fee 398,000 pieces 120,000 lineal feet 405,000 lineal feet 339,000 lineal feet 523,000 lineal feet

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A comparison has also been made of the various species of log timbers cut from Crown lands during the past five years, as shown by the following figures:---

Year.				Hoop and Bunya Pine.	Kauri Pine.	Cabinet- woods.	Hardwoods.	Cypress Pine.	Scrubwoods.
1942–43 1943–44 1944–45	•••	 	 	101,289 102,790 104,855	8,627 10,443 7,028	(1,000 super 15,250 11,315 12,992	ficial feet) 49,649 44,251 38,013	6,776 6,518 8,476	16,116 25,442 †14,280
945-46	••	••		93,703	7,798	16,314	42,392	7,532	*6,141 †15,258
946-47	••	••		94,119	8,957	22,927	51,029	12,375	$^{*5,643}_{20,618}$ $^{*8,228}_{*8,228}$

* Scrub Hardwoods.

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† Miscellaneous.

Crown and Private Log Cut, 1946-47.—The log cut from both Crown and private lands for the year 1946-47 is given in the following table, which also shows the percentage of the total cut that is secured from Crown lands.

	Species.			Crown.	Private.	Total.	Percentage Crown of Total.			
¥7 1 5							Super, feet.	Super. feet.	Super, feet.	1
Hoop and Buny	8.	••	••	••			94,119,000	246,000	94.365.000	99
Kauri	••	••	••	••			8,957,000		8,957,000	1 100
Cypress	••	••	••		••		12,375,000	9,895,000	22,270,000	55
Hardwood		••	••	••			59,257,000	86,532,000	145,789,000	41
Cabinet-woods	••	••		• •			22,927,000	2,111,000	25,038,000	92
Miscellaneous	••	• •	••	••	••	• • •	20,618,000	15,783,000	36,401,000	57
Totals	••	••	••	••	••		218,253,000	116,295,000	332,820,000	65
Plantation timbe		••		••			2,005,000		2,005,000	1
Imported timber	s	••	••	••			••		180,000	
Hardwood into s	leeper	s	••	••	••	•• [••	• •	14,333,000	
Gran	d Tota	ls	••	۰.۰	••		220,258,000	116,295,000	349,338,000	 ,

Logging.—Heavy rains in February and March, 1947, almost entirely suspended logging in South Queensland.

During 1946-47, the following quantities were hauled by and payments made to contractors to the Department:-

·	Class.										Expenditure.	
South Queensland-				. –						Super. feet.	£	
Hoop and Bunya	Pine				••			••		65,079,179		
Forest hardwoods		••	••	••	••		•••			1,930,944		
Scrub hardwoods			••	••	• •					548,976		
Miscellaneous		••	••	••				••		1,840,864		
Red Cedar	•	••	۰.	••	••	••	••	••	•••	87,090	245,977	
									ľ	69,487,053		
North Queensland-									•			
Kauri Pine		• •		••	••			••		7,947,176		
Cabinet-woods		• •	••	••	••	••		••		16,857,683		
Forest hardwoods		••	••	•••	• •	• •				2,382,518		
Scrub hardwoods			••	••	• •	••	• •			4,619,002		
Miscellaneous	•	••	••	••	••	••	• •	••	• •	9,738,545	175,731	
									-	41,544,924		
	Total	s	••	••	••	••	••	••	[111,031,977	£421,708	

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The Plywood Industry.—Returns received from plywood and veneer mills give the following approximate quantities of logs treated and deliveries made for the year 1946-47. The logs supplied to these mills were from both Crown and private lands.

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								1945-46.	1946-47.
								Super. feet.	Super. feet
Hoop and Bunya Pine								12,082,000	13,838,000
Kauni Ding		•••						3,754,000	3,515,000
Tandanaada								15,000	397,000
Jahingt moods	••	••						1,964,000	3,410,000
Jacon down moods	••	••						2,378,000	5,162,000
secondary woods	••	••	••	••	••	•••	· · · _		
Totals								20,193,000	26.322.000
Lovais	••	••	••		••		. ,		1

The Plywood and Veneer Marketing Board reports that the year's operations show an increase in production of 10,399,629 square feet over the previous year, 3,679,211 square feet by the Northern Board and 6,720,418 square feet by the Southern Board. The increase has been made possible mainly through the usage of a greater quantity of secondary timbers. а,

The production for the year was as follows:-

 Southern Board Northern Board	•••	47,018,725 square feet, the value being 26,483,453 square feet, the value being		
Totals		74,502,178	£670,518	

This total exceeds the average of the preceeding five years by 7,500,000 square feet. The distribution was as follows:----

			 		Southern Board.	Northern Board.	Total
Queensland Interstate	 	 	 		21,906,272 26,112,453	8,199,373 18,284,080	30,105,645 44,396,533
				Í	48,018,725	26,483,453	74,502,178

In preparation of figures, all calculations are based on the equivalent of 3/16th inch thickness.

Effect of Award Increases on Hewn Timber Prices.—During the year increases in the basic wage have been reflected in increased prices for hewn timbers.

There were four increases—viz., 1s. as from 1st August, 1946, 7s. as from 1st January, 1947, 2s. as from 10th February, 1947, and 1s. as from 28th April, 1947.

In the case of the increase of 7s., a general revision of hewn prices was in progress at the time, and such revision was extended to include this increase.

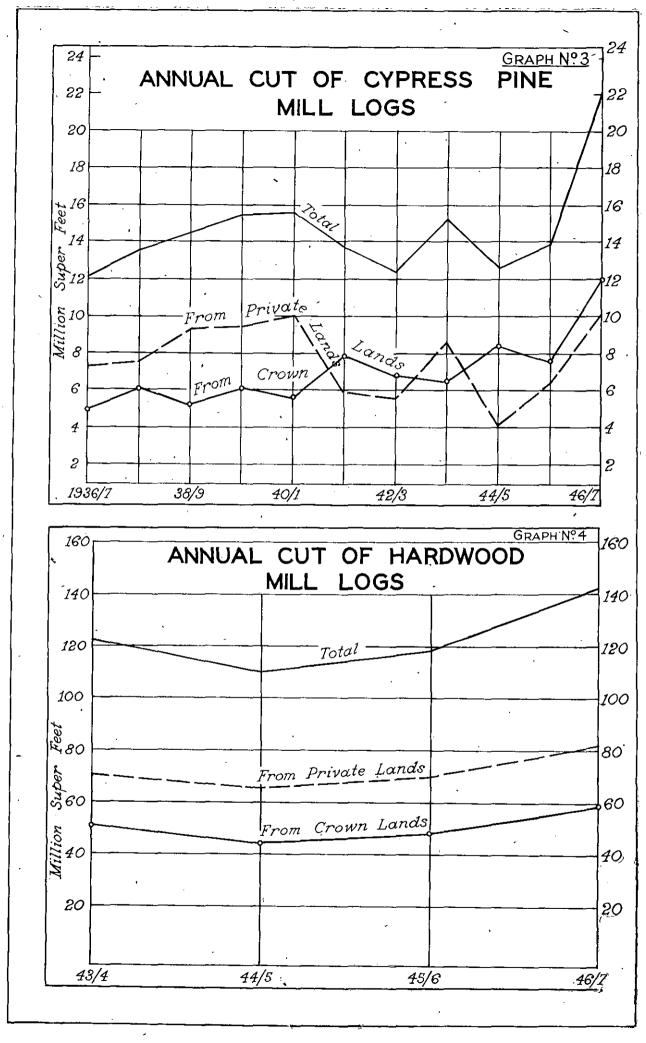
The effect of the increases mentioned above can be seen from the table hereunder.

					Prices as at—		
Class of Timb	per.		1-7-46.	1-8-46.	1-1-47.	10-2-47.	28-4-47.
Sleepers—squared 7 feet Sleepers—hogback 7 feet Crossing timlers Transoms Headstocks	··· ·· ·· ·· ·· ··	· · · · · · ·	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	£ s. d. 30 1 9 24 12 10 1 10 8 1 15 8 1 15 8

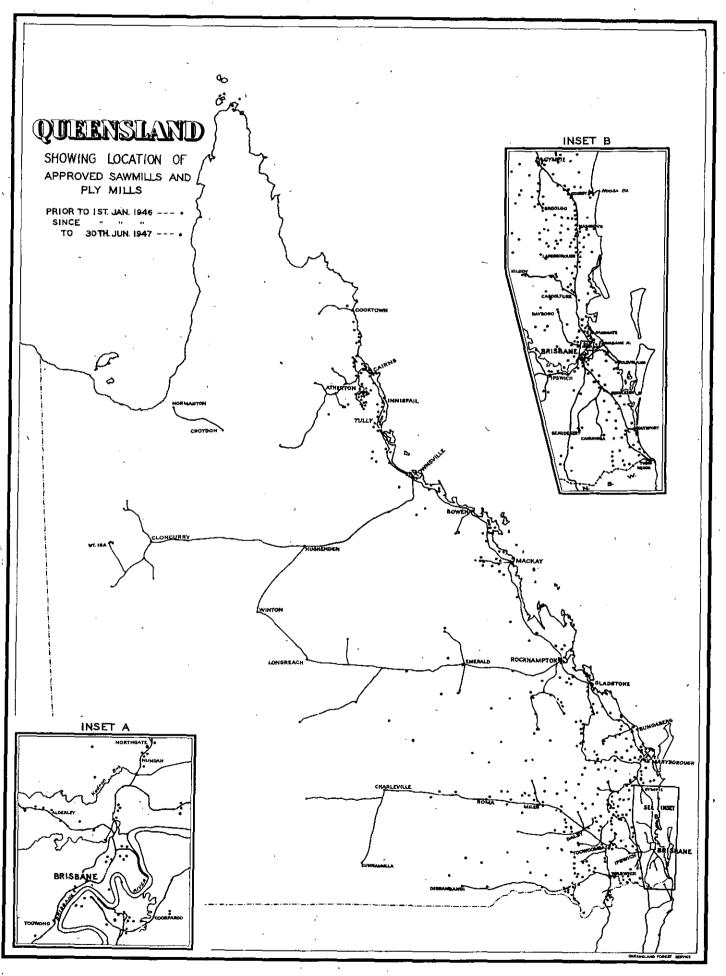
Logging Roads.—Expenditure on logging roads, comprising new construction to private access to additional areas and maintenance of existing roads, amounted to £37,911 17s. 2d., made up as follows:—

					T.	а.	a.		
Revenue	 	 	 		10,768	15	0		
Loan				••	27,143	2	2		 -
				-	£37,911	17	2		
				•					

In addition to the above, subsidies to the amount of £4,113 17s. were expended on shire roads.



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Total expenditure amounted to £42,025 14s. 2d.

The Main Roads Commission expended from the funds of that Department an amount of £98,341 10s. 10d. on construction and £12,853 16s. 11d. on the maintenance of logging roads. This work was carried out principally in North Queensland.

Constructional Timbers—Departmental Contracts.—The supply of constructional timbers to the Railway Department, Main Roads Commission, and other public and private bodies shows generally an improvement on last year's figures, but supply is still below demand. It is proving extremely difficult to secure sufficient skilled experienced men to permit increase in supplies.

A comparison with the two previous years is as follows:-

						1944-45.	1945-46.	1946-47.
Sleepers Crossings	••	•••	••	•••		239,977 pieces 204,325 super. feet	270.802 pieces 225,561 super. feet	215,815 pieces 241,942 super. feet
Transoms Bridge timbe			•••	 	 	295,150 super. feet 528,733 lineal feet	253,153 super. feet 79,533 lineal feet	350,065 super. feet 81,153 lineal feet
Bridge timbe	er (squa	red)	••	••	•••	153,411 super. feet	95,099 super. feet	229,217 super. feet

The improvement in supplies, though small, is an encouraging sign, but it is proving a difficult job to provide the Railway Department with all of its requirements.

The fact should not be lost sight of that railway timber work is, to some extent, becoming a seasonal industry, employing sugar workers in the off sugar season. This may account for the lack of really first class broad-axemen and a consequent disinclination to take on the hewing of better class timber such as girders, the supply of which is limited to a few cutters. The Department is seeking some method whereby skilled girder cutters shall be concentrated on this class of work and endeavour is now being made whereby logs suitable for girders shall be cut in the forest and delivered to the nearest railhead where dressing can be carried out by men skilled in dressing girders.

Until such time as labour shortages are overcome, the outlook for hewn timber supplies reaching a level consistent with current maintenance requirements is not bright.

Plantation Timbers.—The quantities of plantation timbers cut during the past six years are as follows :---

							8	Super. feet.
••	• •	••		• •			• •	187,380
••	• •		••	••			• •	1,250,000
	• •		••	• •		• •	••	1,260,000
	• •	••		••			۰.	955,000
••	• •		••	••		••'	۰.	907,000
• •	••	••	••	••	••		••	2,005,385
	•• •• ••	··· ·· ·· ··	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··		<td> </td> <td> </td>		

Sandalwood.—The Sandalwood trade with China showed some prospects of revival during the year and the marketing agreement with the Australian Sandalwood Co. Ltd. was renewed for a further period to 31st October, 1949. Difficulty has been experienced in inducing cutters to undertake the getting of Sandalwood.

New Regulations.—In May, 1947, regulations were gazetted under the State Forests and National Parks Acts and the Land Acts authorising sales of round, split, or hewn timber as required for construction works or fuel for industrial purposes without submitting same to auction or tender.

Leaves for Oil Distillation.—There were several enquiries to purchase leaves for the distillation of oil, but to date no sales have been effected.

SAWMILL LICENSES.

The policy of granting sawmill licenses to those applicants who have secured supplies of log timber was continued during the year.

Licenses issued because of ownership of private timber have been restricted to the sawing of private timber only; and also to the particular site applied for.

Where Crown timber supplies are available, these are offered at auction with the right to the purchaser to establish a sawmill for their operation; 14 such sales were made during the year.

				Changes Duri	ng 1946-47.		
Number of Licenses as at 30–6–46.	Sawmill Classification.	Number Ceasing to Operate.	Idle Mills Re-licensed.	Restrictions Withdrawn.	Formerly Restricted now Unre- stricted.	New Licenses Granted.	As at 30-6-47.
403 48 26 23 49	General mills	3 4 3 1 5	4 1 1 1	I 2 3	6 	88 15 22 7 2	498 - 59 44 26 47
549		16	7			134	674

The change in the sawmill licensing position during the twelve months ending 30th June, 1947, is shown in the table below.

There were 161 exemptions in force as at 30th June, 1947, this representing an increase of 33 over the number at the beginning of the year.

Transfer of site was approved in respect of 27 applications, and 39 sawmills also secured approval to increase their licensed capacity.

The sawmills ceasing to operate were practically all recently granted licenses.

Complaints are becoming rather frequent concerning the granting of licenses for the operation of private timber stands upon which already licensed sawmills are depending for their supplies of logs, and it would appear that the life of many newly licensed mills will be very limited. There is a definite tendency for applicants to be over-optimistic concerning log supplies available.

OFFENCES.

During the year 1946-47, 133 cases of offences against Acts and Regulations administered by the Department were reported.

These were dealt with as follows:-

Twenty-four prosecutions with fines totalling £144 6s. and proceeds from the sale of timber involved amounted to £30 17s. 3d.

In 81 cases warnings were issued and royalty collected.

In 6 cases there was not sufficient evidence for further action.

In 3 cases of minor offences no action was taken and 3 cases were referred to the Main Roads Commission for action.

Sixteen cases are still being investigated.

As a result of action taken in all cases a total of £574 8s. 5d. was collected in addition to fines.

FOREST PRODUCTS RESEARCH AND FANCYWOODS.

Fancywoods.

During the last four years of war, the activities of the Fancywoods Yard were limited to disposal of existing stocks. In the year under review, it was decided to secure fresh stocks of timbers, such being confined to special-use species not usually handled by the trade.

Approximately 12,000 superficial feet of miscellaneous timber was received during the year. The species handled were Yellow Boxwood, Ivorywood, Brown Tulip Oak, Tulip Satinwood, Pink Poplar, Yellow Hollywood, Burdekin Plum, Leopard Ash, Black Myrtle, Grey Boxwood, Silver Bulletwood, White Basswood, Grey Persimmon. Efforts have been made to secure stocks of timber for fishing rods, but so far without success.

The total value of sales from Fancywoods during the year was £625 11s. 1d., representing a total of 22,000 superficial feet of timber.

Wood Structure and Utilisation.

In the field of wood structure, work has consisted mainly of the identification of the many wood specimens submitted and the supply of authentic samples to the Division of Forest Products, Council for Scientific and Industrial Research, for microscopic study. Some 180 samples were forwarded to the Division for special growth studies.

In addition to many unrecorded spot identifications, over 160 official identifications were made, representing 120 different species from Cooktown to Coolangatta, together with recommendations concerning the optimum use of each species concerned. Special studies have been made or are in progress on the miscellaneous timbers of the Brisbane and Mary Valleys and the North Coast areas, particular attention being given to Brush Box, which is now listed as a "compulsory" species as far as sales to mills from Crown areas are concerned. This timber is now in general demand for building purposes, while it is being sought for as a speciality timber for staves, mallets, and bobbins.

Standards of Quality.—The published list of Standard Common Names of Timbers is being revised and enlarged as regards Queensland, in co-operation with the Standards Association of Australia. The importance of this work in promoting the use of the lesser-known timbers is reflected in the considerable trade demand for the printed lists.

With the co-operation and support of the Department, an important step was taken by the trade in the adoption of Australian Standard Grading Rules for flooring grades, and further consideration by the timber trade of Standards Scantling Grades is awaiting the results from a number of grading studies carried out by the Department at different mills. The Department urges architects to specify Standards Grades for quality of timber for use in buildings. In this way all concerned are aware of the quality of the timber to be used and the most effective utilisation can be made of timber supplies available.

A pamphlet "South Queensland Building Timbers and Specifications for their Use" was issued, and the pamphlet "North Queensland Building Timbers and Specifications for their Use" is being revised to include additional information collected.

Special consideration has been given to timbers suitable for high-voltage equipment and in drawing up suitable specifications in collaboration with the Postmaster-General's Department and with the Division of Forest Products, Council for Scientific and Industrial Research.

New Uses.—Other timber for which new uses are recommended are Brown Lancewood (Scrub Tee-tree) (Albizzia thozetiana), Ironwood Box (Syncarpia subargentea), Red Heart (Dissilliaria Baloghioides), Rose Almond (Rose Apple) (Owenia venosa), Leopard Ash (Flindersia collina), Mararie (Geissois lachnocarpa), Green Satinheart (Geijera salicifolia) and Bennett's Ash (Flindersia bennettiana) for flooring; Marblewood (Acacia bakeri), ex Maryborough District, for flooring, cases and rotary peeling; Rose Kamala (Amoora nitidula) for cases; Ivorywood (Siphonodon australe) for boxwood use and flooring; Blush Walnut or Hard Bolly Gum (Beilschmiedia obtusifolia)—too abrasive for sawing—for peeling; Wallum Banksia (Banksia aemula) for joinery; Brush Box (Tristania conferta) for farmers' vats; and White Eungella Gum (Eugenia spp.) and Brown Tulip Oak (Tarrietia argyrodendron) for beer-cask staves; Satinay (Syncarpia Hillii) for slicing. Several species of Satinash (Eugenia spp.) have proved excellent for flooring and mouldings.

Trials of plantation logs of *Pinus taeda* and *Pinus caribaea* showed that good standard quality rotary plywood could be obtained from these timbers. Gluing was a little more difficult than with Hoop Pine.

Satinash (*Eugenia gustaviodes* and *Eugenia* spp.) for Plywood is now established in both North Queensland and Brisbane, but some difficulty is experienced in drying the very curly grained vencers, which are suitable for only case grade plywood. It is probable that very curly logs are best sawn for building scantlings and flooring.

Other uses for which special timbers have been, or are, under test are:-Boxwood substitutes, brush stock, battery separators, tobacco pipes, saddletrees, piano parts, fishing rods and reels, and wickerwork.

Handles.—Service tests on axe handles made from Ironwood (*Backhousia myrtifolia*) from the Gympie district gave good results, proving this species to be equal to if not better than Spotted Gum for heavy work. The high cost of manufacture, however, due to excessive hardness and low yield of handle quality timber from typical logs prevents production at present prices.

Excellent service results were secured with laminated "Densewood" axe handles.

Tests on Rose Almond (Alphitonia excelsa) are in progress.

Tests by Walkers Ltd. of Maryborough, who were experiencing heavy breakages in Spotted Gum handles for 14 lb. striking hammers, revealed that service life is greatly increased by use of fabric or rubber sleeves in the hammer head. This proves that the Spotted Gum handles fail by shattering through lack of ability to damp out the vibrations due to the heavy blows. Several broken handles examined were also badly selected for grain by the manufacturers and in some were badly fitted by workmen.

Essential Oils.—A survey of all licensed producers of essential oils, and species handled, was made during the year. Personal visits were made to a number of plants, where local problems were fully discussed and recommendations submitted for the development of the industry.

Miscellaneous studies have included Lawyer Vine supplies, leaves and bark of chemical and pharmaceutical interest, tanbarks of mangroves, Kauri and grass tree gums.

Preservation.

Marine Borer Investigations.—Assistance has been given throughout the year to the Division of Forest Products, Council for Scientific and Industrial Research, in providing data on timber destruction by marine borers in Queensland waters and in completing a survey of conditions in Queensland ports through the Department of Harbours and Marine. This is part of an all-Australian survey being conducted by the Division. Some very useful service records were received from the Harbour Boards at Rockhampton and Cairns.

Following information supplied to the City Engineer on marine borers attacking Turpentine piles supporting the net of the Sandgate swimming pool, the Brisbane City Council authorised the provision of concrete pile armour to prevent the loss of these piles.

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Continuous co-operation has been maintained with a Brisbane wharf owner in observing Turpentine piling and recommending effective protection against marine borers.

Powder Post Borers—General.—The usual service was given of advice to home owners, Government Departments, timber merchants, wood manufacturers, and building authorities troubled with wood borers, and in supplying technical literature and information to firms engaged in combating wood-destroying pests.

An official list of all common Queensland timbers susceptible to Lyctus has been published.

Anti-Lyctus Work.—The major portion of this work has been aimed at the extension and improvement of immunisation treatment of sapwood susceptible to Lyctus. Immunisation by boric acid has been established on a firm footing in Queensland, and in addition to the plants treating susceptible veneers, two major plants are operating on sawn timber, whilst a third is nearing completion. During the year, approximately 1,000,000 superficial feet of sawn timber has been treated in the two plants under operation.

Existing schedules have been improved to the extent that the solution strengths have in one case been reduced from 4 per cent. to 2 per cent., and the maintenance periods reduced from 8 hours to 2 hours. In the case of one plant, a less expensive steaming schedule was developed for treating soft timbers, such as *Alstonia scholaris*.

Improved schedules have also been developed for seventeen scrubwood species.

Analytical methods have been developed which enable control of the solutions to be carried out readily by the plant operator. Previously, analysis of solutions necessitated laboratory work away from the plant, with a resultant time lag in adjustment of the solutions. Other experiments have been initiated to use the conductivity of the solution to measure the boric acid content.

Laboratory analytical and investigational work have necessitated over 1,500 wood analyses in addition to a large number of solution checks. A service maintained for this purpose has been used by several of the commercial firms engaged in the treatment processes.

Check analyses of treated veneers from one firm indicated that an excessive amount of preservative was being used. The firm was advised, and as a result an appreciable saving in costs of treatment should be effected. Arrangements have been made for regular checks to be made at all plants to see that costs are kept to a satisfactory figure.

In the treatment of sapwood with boric acid there arises an associated problem of fungus growth on the surface of the boards and in the solution. This problem is usually combated by adding a fungicide to the solution, but in this case it has been found that the compounds used are precipitated by the boric acid and extractives from the wood, thus neutralising their fungicidal value. This difficulty is still unsolved, but the problem is being further investigated.

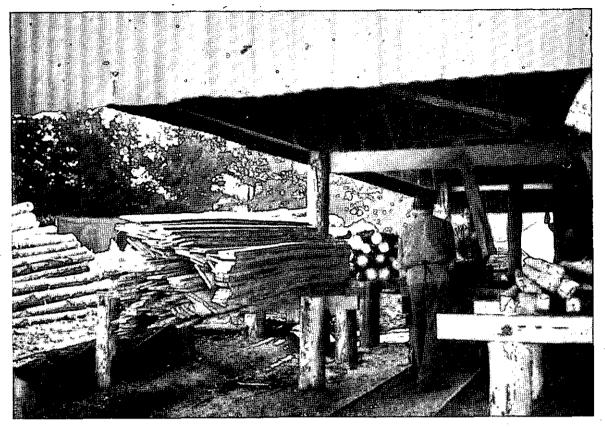
One of the heaviest items of expenditure in the installation of a treatment tank is the cost of copper sheeting. The possibility of the use of concrete vats without copper lining is under examination. Laboratory trials have shown a very small effect only on the concrete of the boric acid content of the solution. Final conclusions cannot be drawn at this stage.

In the past, treatment solutions have been run off as waste after wood extractives had caused the solution to darken to such an extent as to cause staining. Laboratory trials have been carried out to clarify the solutions and thus enable their continued use. This would have two advantages:—

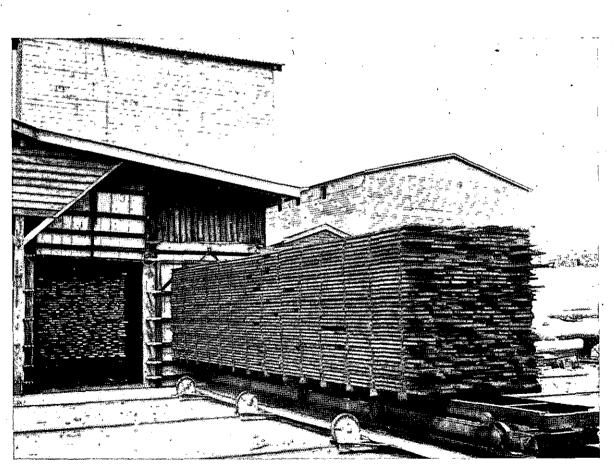
- (1) Economy would be effected in the use of boric acid, which at present costs approximately £50 per ton.
 - (2) Control of solution strengths would be made easier.

The results of these trials have been promising and commercial large scale tests, using equipment which can be cheaply constructed at the mill, are in hand.

IMPROVING UTILISATION.



MILL OPERATING FULL TIME ON PLANTATION THINNINGS PRODUCING CASES FOR THE GRANITE BELT. During the past year over 2,000,000 s. ft. of first thinnings were cut from young plantations. It is expected that thinnings will amount to 10,000,000 s. ft. per annum within a few years.



IMMUNIZATION OF BORER SUSCEPTIBLE TIMBER. This commercial plant is treating approximately 25,000 s. ft. per week by the boric acid method, thus rendering it immune to Lyctus attack, and suitable for permanent uses. Difficulties experienced in connection with clinker formed from the burning of boric impregnated sawdust have been overcome by the addition of lime to the sawdust prior to burning.

It is considered worthy of special mention that the operations of Messrs. Brandon and Son have caused world-wide interest, enquiries having been received from Europe, the United States of America, and South America for details of the treatment being carried out and of the technical aspects of the work.

Other Preservative Projects.—Routine inspections have been carried out on fence posts and bridge deckings. A final inspection of the test plot at Gadgarra, North Queensland, has been made and the final report is under compilation. Inspections have been made of treated sleepers laid at Roma Street and a report forwarded to the Council for Scientific and Industrial Research, under whose direction the tests were made.

Termite Control and Decay Prevention.—Collection is proceeding of a large number of authentic specimens of common Queensland structural hardwoods for termite resistance tests by the Division of Economic Entomology, Council for Scientific and Industrial Research, Canberra, and fungal resistance research by the Division of Forest Products, Council for Scientific and Industrial Research, Melbourne.

Chemistry.

Following receipt of a complaint that unsatisfactory veneers were being used in the manufacture of matches, samples were examined to determine the cause of the discolorations on which the complaints were based. It was found that the timber was quite satisfactory, but that the silicate solution used as a fireproofing agent was responsible for the staining.

Investigations were carried out on the use of Brigalow bark as a tanning material. The bark was found unsuitable due to its low tannin content (11 per cent.) and to the fact that it gave a dark tan to the hide. Analyses were made of wattle barks which had been forwarded for examination of tannin content.

The use of Mangrove barks as a tanning material is also under examination. Mangrove occurs in vast quantities in Queensland and other tropical countries, but its use in tanning has been unsuccessful due to its prohibitive red colour and the fact that it renders the leather surface "blotchy" and harsh.

Experiments to overcome this had been carried out in many countries, but with little success. However, as a result of our laboratory tests, it now appears that a satisfactory light coloured extraction is both commercially possible and economic, and further work is in hand to confirm these indications. If they are successful, further tests will be carried out.

In this work grateful acknowledgement is made to the assistance afforded by the Government Analyst and his staff and Messrs. Johnson and Son of Kedron.

Seasoning.

Mainly on account of staff difficulties it has not been possible to resume our previous scale of activities in either the field or in the laboratory.

Due to breakdowns in the boiler the experimental kilns were idle for most of the year and only twelve runs were completed—mostly on timber required urgently by other Governmental Departments.

In addition to this work, approximately 8,000 superficial feet of scrubwood were subjected to experimental air drying, but the observations have not yet been completed.

The report upon the air seasoning of Brush Box project referred to in last year's report has now been issued.

Inspections of a number of air-seasoning yards were carried out during the year and recommendations made for improved practices.

Moisture Equilibrium Survey observations have been continued at the five test stations on the North Coast. This work is nearing completion, and will be finalised in the near future. A summary of the results to date was prepared and published.

There has been an appreciable increase in requests for moisture content determinations from the trade and the public. Most of the samples submitted were from flooring supplied for building.

By close liaison with the Division of Forest Products, Council for Scientific and Industrial Research, we have been able to keep Queensland timber interests advised of the latest developments in air and kiln drying.

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Mill Studies.

The studies commenced in 1945-46 in collaboration with the Council for Scientific and Industrial Research and the Timber Stabilisation Board have been continued, studies having been conducted at three hardwood mills (situated in Chinchilla, Wondai, and Brisbane) and two other mills situated in Glasshouse and Imbil. The last two studies were carried out on plantation thinnings, while the lastmentioned included a special study of miscellaneous scrub timbers. Unfortunately, the Council for Scientific and Industrial Research were unable to continue to assist in the field work, but their assistance in the analyses of results and subsequent discussions have been particularly valuable.

Final reports have been issued on the studies carried out on Cypress Pine and interim reports have been compiled on two of the three hardwood mills studied in the year 1945-46. These reports have done much to stimulate a critical review of milling operations by the respective owners and have enabled all concerned to obtain a much better appreciation of the several factors involved in the true cost of milling.

One of the most important developments arising out of the hardwood studies is that relating to the analysis of the true residual stumpage values of compulsory and optional logs. The analyses are not yet complete, but there are indications that the Department's policy regarding optional logs should be reviewed.

Special attention has been given to the work on plantation timber. The results indicate that with some types sawing for production of barkwane material is the most economic procedure.

Technical Education.

Following joint representations of the Department and the Queensland Timber Stabilisation Board, a series of lectures has been instituted during the year at the Central Technical College on Forestry, Sawmilling, and Wood Technology, the lecturers being drawn from the staff of the Branch. Subjects covered in the lectures include—

The Growth and Structure of Wood, Conversion (Sawmilling and Veneering), Seasoning, Mechanical Properties of Wood, Destructive Agencies (Fungus, Rots and Insect Pests of Trees and Timber), Preservation, Plastics, Chemical Utilisation, and Timber Grading.

The enrolment exceeds 80, the pupils being drawn mostly from sawmilling organisations, and attendances have been gratifyingly high.

North Queensland.

As staff becomes available, it is hoped to establish a field station in North Queensland to deal with the problems of that region.

ACKNOWLEDGMENTS.

It is desired to pay grateful acknowledgment to the Government Botanist, the Government Analyst, the Chief, Division of Forest Products, Council for Scientific and Industrial Research, for generous assistance and advices received from them and their officers during the year. Without such assistance our work would be greatly reduced in volume and quality.

To the many timber firms and organisations which have been collaborating during the year, it is also desired to express our gratitude, and while each and every one of them has shown a keen desire to assist whenever approached, it is felt that a special tribute is due to Messrs. Brandon and Son and to Messrs. Hancock & Gore, on whose services and generosities we have made more than average demands.

GENERAL.

During the year, a reorganisation of the Forestry Sub-Department was approved. That part of the State, which is under direct supervision by Forest Officers, has been divided into eight Districts, under control of District Foresters. Six of these—viz., Brisbane, Gympie, Maryborough, Yarraman, Dalby and Atherton—are Grade I. Districts and two— Warwick and Kalpowar—Grade II. The central administration has been divided into the following branches:—Administration, Drafting, Harvesting and Marketing, Working Plans, Silviculture, Forest Research and Forest Products Research.

The post of Deputy Director of Forests was created; other classifications were improved, and a number of new classified positions provided. At 30th June, 1947, there were 35 classified posts in Head Office, as against 28 at 1st July, 1946, while classified clerical posts in country offices numbered 14 as against 5. The position regarding field staff altered as follows :---

										Number at		
										 1~7-1946.	30-6-1947.	
District foresters .	•		••			• •	••			 3	8	
Foresters, Division	E	• •	••		••	••	••		••	 10	4	
Foresters, Division	LE 🗌	••	••	••	••		• •	••	••	 4	{ 8	
Foresters, Division	III	••	••	• •	••	• •	• •		••	 10	16	
Forest rangers .	•	••	••	••	••	• •	••	• •	••	 34	35	
Total .	•	••	••	••	• •		••		••	 61	71	

I regret to record the retirement during the year of F. D. Chippindall, Forester, Maryborough, who had a long and meritorious service with the Department.

That the staff put forward extra effort during the year is indicated by the results, accomplished often under difficulties, and I take this opportunity of expressing my thanks.

V. GRENNING,

Director of Forests. 29th September, 1947.

Appendices.

APPENDIX	A.
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S.,	ecies.								Outon	tity.
qa	ecies.									Super ft.
lilling Timber—										
Hoop and Bu	ıya Pine—									•
Ply		••		••	• •	• •	••		8,223,918	
Logs									44,692,622	•
Tops					• •	••			41,202,453	
	• • • •			-				· _		94,118,993
Kauri Pine					• •	• •	••		8,956,845	
Cypress Pine					•••				12,374,682	
Forest Hardw					••		••		51,028,915	
Serub Hardwo									8,227,739	
Cabinet Wood									22,926,885	
Miscellaneous				••	••		••		20,618,005	
miscenaneous	phone	••	••	••	••	••	••	• •	20,010,000	124,133,071
Pinus taeda								_	686,450	124,100,011
Pinus radiata	•• ••		••	••	••	• •	••	••		
		••	••	••	••	• •	••	••	362,135	
Pinus caribaea		••	••	••	••	••	••	••	243,291	
Pinus patula		••	••	••	• •	• •	••	••	6,795	
Cedrela mexic		••	••	••	••	••	••	••	53,831	
Cupressus ben		••		••	••	• •	••	• •	5,356	
Hoop Pine Th		••	••	• •	• •	••	••	••	642,752	
Silky Oak Thi	nnings		••	• •	••	• •	••	• •	4,775	
	•							-		2,005,385
To	tal.	• •	۰.		••	••	••	••	••	220,257,449
her Classes—									-	
									215,380	niana
Sleeper Blocks		••	••	••	••	••	••	••	183,057	
Headstocks, T				••	••		••	••	100,001	superficial feet
Girders, Gorbe			Ç	• •	••	••	••	••		lineal feet
			••	••	••	••	••	••		lineal feet
House Blocks		••	••	••	••	••	••	••		
		••	••	••	••	••	••	• •		lineal feet
Round Timber		••	••	••	••	••	••	••		lineal feet
Fencing Mater	ials	••	••	••	۰.	••	• •	• •	370,309	
Fencing Mater	ials	••	••	••	••	••	• •	••		lineal feet
Fencing Mater		••	••	••	••	••	• •	••		superficial feet
Hewn and Bri			••	••	••	••	••	• •		superficial feet
Mining Timber		••	۰.	••	••	••	••	• •	153,393	
Mining Timber	s	••	••	••	••	• •		••		lineal feet
		••	••	• •	••	• •	• •	• •	17,168	pieces
Miscellaneous '	limbers			• •	••		• •		2,878	pieces
Miscellaneous			••	••	۰.	• •	••		2,763	lineal feet
Miscellaneous		• •	• •		••				11,223	superficial feet
		••	• •		• •			••	125,537	tons
			۰.						85,816	
					••					tons 17 cwt.
			• •							tons 5 cwt.
			•••		••					tons 10 ewt.
Lawyer Cane								••		tons
~ ~ ~			••						1,280	
Sand, Gravel,			•••		•••		••			cubic yards
Gravel .			••		••	•••			10,236	
		-						••	641	
OTOT OTTO		• •	• •		• •	••		••	0.41	VV110

APPENDIX B. Annual Cut—Pine—Financial Year ended 30th June, 1947.

Worl	ting P	lan Are	а.		Ply.	Logs.	Tops.	Total.
	• • •				Super ft.	Super ft.	Super ft.	Super ft.
Bowen	۰.		:.		Nil	251,748	157,367	409.115
Brisbane			• •		1,279,942	9,377,269	7,804,541	18,461,752
Brisbane Valley	·	••	••		1,979,306	15.413.267	15,311,018	32,703,591
Bundaberg					48,582	417,080	364,518	830,180
Gympie	• •		۰.		14,326	492,233	437,338	943,897
Kilkivan		••	۰.		2,708,969	7,723,463	7,451,485	17,883,917
Mackav			• •		Nil	30,928	19,649	50.577
Many Peaks	••		۰.		1,552,304	4,585,341	4,599,754	10,737,399
Maryborough			۰.	•••	399,496	3,317,527	3,238,805	6,955,828
Mary Valley	۰.	••	۰.		240,993	2,010,291	1,102,135	3,353,419
North Coast	۰.		••		Nil	44,525	19,981	64,506
Rockhampton			۰.		Nil	86,947	61,671	148.618
Warwick	••	••	• •	• •	Nil	942,003	634,191	1,576,194
Te	tals		••		8,223,918	44,692,622	41,202,453	94,118,993

APPENDIX C.

Receipts under the State Forests and Timber and Quarry Regulations for the Year ended 30th June, 1947.

Dist	ricts.									Tota		
•										£	8.	
Group 1-South Queensland (B	Irisbane,	Bunda	aberg, (łympie,	, Mary	borough	, Toc	woomba	, Warwick)	547,344	16	7
Group 2-Goondiwindi, Inglew	rood, St.	Georg	ze, Star	thorpe		••		••		3,981	9	5
Group 3—Dalby				`	••	••	'		•• ••	10,373	18	0
Group 4Charleville Cunnam	uilla. Ro	ma						••		485	5	6
Group 5—Barcaldine, Blackall	. Jundal	h. Lon	greach.	Mutta	burra,	Stonehe	nge,	Winton,	Aramac	784	14	3
Group 6—Clermont, Emerald,	Springs	ure						••		1,073	13	6
Group 7-Gayndah, Gladstone	. Monto	. Taro						••		250	3	0
Group 8-Rockhampton	,		•••							1,269	5	9
Group, 9-Mackay								••		2,345	13	1
Group 10—Bowen										1,885		5
Group 11—Townsville	••	••								1,768	9	2
Group 12—Charters Towers, Ra		 0d								854	17	6
Group 12-Charters 10wers, 1w		u	••							385		9
Group 13—Hughenden Group 14—Cloncurry, Boulia, I	Zumuno	Maak	inlow	•••						233		7
Group 14—Cloneurry, Bouna, I Group 15—North Queensland (A+honto	n Hat	herton	Cookt	 	Port Do						•
Group 15-North Queensiand (Amerio	n, 1191	Der ton	, COORI	0w11,	1010 100	u6-a	3, Odi 110		333.244	19	9
Ingham) Group 16—Burketown, Coen, C	 	d'anna		Norma	nton	 Thursda		and	•• ••		15	4
Group 16-Burketown, Coen, C	royuon,	Georg	000 WII,	TOTINA		. mui sua	y 101		•• ••			
										906.286	5	7
										74,673		4
Receipts-Forestry and Lumb	ering	••	••	• •	••	••	••	••	•• ••	4,035		-
Sale of Plants, Materials, &c.		••	•••	••	••	••	••	••	•• ••	4,678		4
Rents and Grazing Dues	••	••	••	••	••	••	••	••	•• ••	4,078	10	+
										000.054	10	10
•	· · · · · · · · · · · · · · · · · · ·									989,674		
Less Treasury Re	funds	••	••	• •	• •	••	••	••	•• ••	764	19	v
										£988,909	17	10
				,								
	Course	DIRON	WITT	TOTALS	പലി	Previou	s Yr	ARS.				
	COMI N			TOTAL					1048 40			
1942-43.		19	43-44.			1944 - 45	••		1945-46.			
£937,725		£1.1	23,921		£	1,555,42	5		£914,824	:		
		,-							-			

APPENDIX D,

Proceeds of Sales of Timber, &c., for the Period from 1st July, 1943, to 30th June, 1947.

r	listricts	•		1943 -	14.		1944	1 5.		1945 -	46,		1946-	47.	
			-	£	8.	<i>d</i> .	£		d.	£	<i>s</i> .	d.	£		d.
Group 1		••		607,462	1	6	636,793		11	545,488	4	2	547,344		7
Group 2				1,887	2	11	3,852	1	10	3,482	9	9	3,981	9	5
froup 3				8,438	18	4	4,484	8	1	5,209	6	0	10,373		- 0
Froup 4				396	2	8	384	5	9	433	9	4	485		6
froup 5				564	10	5	656	2	0	584		0	784		- 3
Froup 6				279	- 3	0	520	3	2	510	2	2	1,073		6
roup 7				333	11	5	222		3	166	- 0	2	250		· 0
froup 8				669	7	2	597	16	11	919		6	1,269	5	9
Froup 9				1,703	18	2	1,116	7	5	1,712	12	1	2,345		1
Froup 10	••	• •		803		1	875	18	0	1,946		5	1,885		5
Froup 11	•••			4,448		3	2,477	9	1	1,481	2	11	1,768	9	2
roup 12				350	19	2	864	4	1	997	15	9	854	17	6
troup 13				135	- 9	2	257	2	3	226	4	7	385	3	- 9
froup 14		••		212	18	3	256	1	3	169	13	4	233	9	7
Froup 15				238,868	8	10	223,789	2	10	225,643	2	7	333,244	19	9
Froup 16		••			17	1	2	10	6	2	5	3	4	15	4
			ľ	866,500	10	5	877,149	14	4	788,973	1	0	906,286	5	7
Receipts —		ry	and							02.000			71070	10	
Lumberin			• •	217,387		4	208,453		2	82,933	4	6	74,673		4
sale of Pla	nts, Ma	terials	, &c.	7,061	- 7	3	7,146	7	3	4,979			4,035		7
Rents and C	razing	Dues	• •	4,549	8	1	4,323	4	6	4,627	15	6	4,678	19	4
state Sawmi	lls		••	21	0	0							. ••		
fiscellaneou	ıs Rec	eipts	and							0	~				
Adjustme			• •	••						8	0	0	••		
Surplus from	n Previ	ous \mathbf{Y}	ear—				1				•				
Forestry		Lumb	ering									•			
Operati	ons	••	• •	29,595	10	6	59,644	13	11	34,864	4	6	· · ·		
				1,125,115	13	7	1,156,717	16	2	916,386	Ô	5	989,674	12	10
Less Treas	sury Re	funds		1,125,115			1,100,117		õ	1,562		11	764		
	-			1,123,920	19	6	1,155,425	6	2	914.823	14	6	988,909	17	10

APPENDIX E.

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The following Schedule illustrates the market price of logs during the Year 1st July, 1946, to 30th June, 1947.

		Spec	ies.				Log Class	9.	Delivery.	Prices
Red Tulip Oak							7 ft. plus		. F.o.r. Cairns	<i>s.</i> 16
-						•	-	•	F.o.r. Townsville	17
Red Cedar	••	. • •	••	••	••		8 ft. plus		. F.o.r. Cairns	41
							· ·		F.o.r. Townsville	42
									F.o.r. Netherdale F.o.r. Brisbane	33 41
Kauri Pine	••	••	••				8 ft. plus		F.o.r. Cairns	41 191
Walnut							-		F.o.r. Townsville	20 1
wamut	••	••	••	••	••	• •	8 ft. to 8 ft. 1	1 in		23
Silky Oak			••		••		8 ft. plus		F.o.r. Townsville	$\frac{24}{20}$
-			-		••	••	•		F.o.r. Townsville	21
Maple	••	••	••	••	• •	• •	8 ft. to 8 ft. 1	l in.	F.o.r. Cairns	28 1
Black Pine							8 ft. plus		F.o.r. Townsville	29 1
	••	••	••	••	••	••	0 10. pius	•	F.o.r. Cairns	17 1
Putt's Pine	••		• •		۰.		8 ft. plus		. F.o.r. Cairns	21
17L24 D)									F.o.r. Townsville	22
White Beech	••.	•••	••	••	••	••	8 ft. plus	•	F.o.r. Cairns	22
									F.o.r. Townsville F.o.r. Brisbane	$\begin{array}{c} 23\\29\end{array}$
Hickory		• •				.,	8 ft. plus		F.o.r. Brisbane	29 18
White Ash	••	••	••	••	۰.		7 ft. plus			17
Carzali Silkwood							7 0 1		F.o.r. Townsville	18
	••	••	••	••	••	••	7 ft. plus	• •	73 79 111	16
Satin Sycamore				••			7 ft. plus		F.o.r. Townsville	$17 \\ 15 $
• • •							l		F.o.r. Townsville	16
Cellow Walnut	••	. • •	••	••	••	••	7 ft. plus	• •		14 8
Brown Pine (She	Pine)						7 ft. plus		F.o.r. Townsville	15 8
Vhite Cedar		· · ·		••	••	••	7 ft. plus	•••	T. D'I	$18 - 6 \\ 20 - 6$
ellowwood	••	• •			••	••	8 ft. plus			20 0
row's Ash	 h. (13	••		••	۰.	••	8 ft. plus .	• •	F.o.r. Brisbane	20 0
outhern Silver A Sennett's Ash	usn (E	umpy	Asn)	••	••	••	6 ft. plus 6 ft. plus	• •		19 6
eopard Ash (Leo		Wood))		••	••	6 ft. plus	••		19 6 19 6
Sonewood					••		6 ft. plus			17 3
ollywood (Brow	n Bol	lywood	l) (Boll	ygum)	••	• •	6 ft. plus	• •	F.o.r. Brisbane	16 9
rown Tulip Oak arrobean	(Orot	wsroc	n rum.	'	••	• •	6 ft. plus 6 ft. plus	••		14 3
urrajong (Flam	ə Tree			••	••	••	6 ft. plus	••	F.o.r. Brisbane	$16 9 \\ 15 3$
ink Poplar (Blue	sh Cuo	ígerie)	(Maide	ən's Bh	ısh)		6 ft. plus		F.o.r. Brisbane	11 9
ed Silky Oak (B	eetwo	-	••	••	••	••	6 ft. plus	••	F.o.r. Brisbane	17 3
ose Mahogany ose Maple (Rose	 Wah	unt) (Pi	 igeonh	 APTV A9	 h)	••	6 ft. plus 6 ft. plus	••	F.o.r. Brisbane	18 3
assafras					· .	•••	6 ft. plus	••	F.o.r. Brisbane	$17 9 \\ 16 9$
lver Quandong	· ·	· · ·	• •		• •	••	6 ft. plus		F.o.r. Brisbane	18 9
outhern Silky Ös	sk s bie 1		••	••	••	••	6 ft, plus		F.o.r. Brisbane	21 9
ulip Plum (Burd hite Walnut (Pe			• •	••	••	••	6 ft. plus 6 ft. plus	••	F.o.r. Brisbane	19 3 17 7
rubwood Specie Sub-Departm	s not	elsewh			n Fore	stry	e and paulo ? ?			17 7
Light Scrubwoo	ds		••		••	•••	6 ft. plus	••	F.o.r. Brisbane	11 9
Heavy Scrubwo Scrubwoods and		 Imooda	• •	••	••	••	6 ft. plus	••	F.o.r. Brisbane	14 3
Sordo woods and	TTOIL	140008	• • •	••	••		7 ft. plus	••	F.o.r. Cairns	16 6
Hardwoods	••	••	••		••		6 ft. plus		F.o.r. Brisbane, Warwick,	176
Uandman J-							6.64		and Gladstone	13 6
Hardwoods	••	••	••	••	••	• •	6 ft. plus	••	F.o.r. Maryborough,	
						ļ			Bundaberg, and Too- woomba	13 0
Hardwoods	• •			••	••		6 ft. plus		T3 T3 13	13 0 14 0
Hardwoods	••	••	••	••	••		6 ft. plus .		F.o.r. Townsville	18 3
FT	••	••	• •	••	••	••	6 ft. plus	••	F.o.r. Mackay	14 0
Hardwoods Hoop Pine Ply	••	••	••	•••	••		6 ft. plus 7 ft. plus	•••	F.o.r. Ingham	17 3
Hoop Pine "A"		ty Loge					7 ft. plus	::	F.o.r. Brisbane F.o.r. Brísbane	30 0 23 0
Bunya Pine Log	8	••	••	••	• •	•••	7 ft. plus		F.o.r. Brisbane	20 6
Hoop Pine Tops Bunya Pine Top	-	••	••	••	••	• •	7 ft. plus		F.o.r. Brisbane	12 6
ouava rune 100	వ	• •	••	••	••		7 ft. plus		F.o.r. Brisbane	11 0

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APPENDIX F.

Railway Timbers supplied during Financial Year 1946-47, under Forestry and Lumbering Operations.

		Clas	s of Ti	mber.					Quantity.	Sales Value.
	, Longitudina	als, Br	eaces, d	 te.	•••		· · · · · · ·	· · · · · · · · · · · · · · · · · · ·	168,284 superficial feet 262,115 superficial feet 59,126 superficial feet 350,065 superficial feet 1,807 superficial feet 841,397 superficial feet	£ 8. d 4,219 8 5 4,394 18 7 1,162 4 8 6,451 12 8 48 15 6
Girders and Piles Poles Round and Sills Struts	Corbels	••• •• •• ••	· · · · · · ·	 	· · · · · · ·	••• •• •• ••	••• •• •• ••	• • • • • • • • • •	25,226 lineal feet 43,951 lineal feet 36,958 lineal feet 15,076 lineal feet 11,976 lineal feet 1,311 lineal feet 134,498 lineal feet	5,153 1 $65,397$ 2 $22,080$ 16 11 1,235 11 3468 5 4193 1 6
	icks (as Sleep ous Timbers		•••	 	 	•• •• ••	••• •• ••	· · · · · · ·	58,118 pieces 89,926 pieces 125,969 pieces 826 pieces 274,839 pieces	$\begin{array}{c} 4,099 & 17 & 10 \\ 21,938 & 15 & 0 \\ 22,045 & 2 & 0 \\ 125 & 7 & 0 \end{array}$
	. Т	otal		••	••	••	••			£79,014 1

APPENDIX G.

Comparative Statement of Expenditure for Years 1945-46 and 1946-47.

—		1945-46.	1946-47.
	-	£	£
evenue			FF 0.01
. Salaries		- 61,145	77,601
Travelling and Incidentals	• • [8,399	10,226
	• • •	824	981
	• • •	372	371 248
Cash Equivalent Extended Leave (F. D. Chippendall)			248
· • · · · · · · · · · · · · · · · · · ·	ļ		
reasuryDevelopmental Works, &c		169,950	
Reforestation	• ••	7,066	
National Parks	• • •	11,548	··· ·
Access Roads	• •	544	
Charcoal Production		0.1	
			* 100 000
Reforestation-	i i		*428,322
Plantations	[24,762	
Access Roads		9,138	27,750
Acquisitions of Land for Forestry Purposes		18,969	18,157
	1		
rust-		109,642	68,866
Hardwood Supplies to Railway Department and Others	·· ·· [482.501	516,785
Harvesting and Marketing Timber	••••	204,001	010,100
reasury-			1
Post War Reconstruction and Development Fund—	· • {		ar err
Reforestation	•• ••	••	Cr. 25,571
National Parks	•• ••	••	22,864
Access Roads		••	14,282
	[-	1004 000	C1 160 000
		£904,860	£1,160,882

* Actual Expenditure on Reforestation for the year amounted to £402,751.

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IX
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Summary of Loan Reforestation Expenditure, Year ended 30th June, 1947.

		Refore	Reforestation.			Protection	Maintenance	New Con-		^O	Overhead Expenses.	Jes.		
Reserve.	Plantations.	Regeneration	Plantations. Regeneration. Maintenance. Experiment.	Forest Experiment.	Surveye.	Fire-fighting, Pear- Clearing, &c.	of Capital Improve- ments.	struction of Nurseries, Buildings, &c.	Total of Columns 2–9.	Stores, Fodder, Supervision. &c.	Holidays, Wet Time, &c.	Unemp. Insurance.	Total Overhead.	Reserve Total,
-	61	ç	4	5	g	7	8	6	10	п	12	13	I4	15
	£ 8. d.	£ 6. d.	- E e. d.	£ - 8. d.	£ 8. đ.	£ 8. d.	£ 8 G	£ . d.	£ 8. d.	Б. е. С.	- E a.	£ 3. ď.	£ 8. d.	£ e. d.
: :					BRISBANE	WORKING PLAN AREA	PLAN AREA							
::: ::: :::	:::	212 2 3	:	:	:	10	598	:	61 <u>4</u>	10		:	16	
R. 1355	: :	86.44 5	::	::	: ;	역의	::	::;	3~	22	13	::		22
:::	::	195 0 7	::	::	2 2 2	161	::		961 17 11 961 17 11	<u>5</u> 4	4 8	::	200	<u>n</u>
B. 702 B. 1876	::	197 217 217 217 207	::	::	::	147 19 9 1,017 6 10	::	1 11 9	1,089 1 4	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$::	27 2 4 614 3 7	19 14
ation	::	4) CAT	::	::	::	a :	::	3 7 1	678 14 4	81 <u>5</u>	∾ :	::		612
d Drum Accour	:::	:::	:::	0 i9 1	:::	722 14 2	:::	:::	722 14 2 0 19 1 	285 8 7	:::	:::	285 8 7	285 8 7 285 8 7
	:	1,047 9 9		0 19 1	0 7 2	5,787 6 0	598	20 14 2	6,862 5 10	1,759 6 10	1,569 7 8		3,328 14 6	10,191 0 4

1,94415,4593,2283,2281,6791,0041,00452,883 5 5 ₽ 0 18,149 19 ø Ŀ. 10 : 212 387 ۲ *********************** 1 : 0-3H 600 88 രി Π ø ::::: 1 318 158 158 159 369 150 150 150 153 6,737 4 တတ္ပီလစစ္က နင့္က နင္က ဖ ŀrφ :: 6801°4~3604° **6**0 11,412 13 10 : 212 387 н e0xe4xx0004xx စစ 90 ~ 8 8077500087064 ကတ္ 618 1,597 828 1,676 1,676 1,676 1,606 1,606 1,898 1,898 1,898 1,898 1,913 1,913 1,913 1,913 1,068 0 % 34,733 01-000-10 0 9 ø **m** 00 10 588 12 146 8 1 1266 10 1 218 18 18 1 218 10 1 1 368 10 1 1 368 10 1 1 368 10 1 193 10 103 10 297 0 297 0 99 12 99 12 က 12 ::::: : 4,853 0 AREA 8 00041-1-0 0000 000041-1-0 တ PLAN 18 18 2,498 11 :::: • WORKING 0 <u>မန်ကုန်လီစစ်စစ်စစ်</u> ക 824586558855588 :⁶¹ : : 8,301 12 : -: : 462 206 354 356 1,410 28 141 518 141 518 141 518 .068 VALLEY 140000 0 80 00 11 :::::: BRISBANE 703 9 0 058 13 13 ::::::::::::: : 658 000011-0100 -0 6 11 :***** 5 130 Q 13 P 13 ---: :::::: : 370 353 353 353 1,194 1,194 1,319 407 647 5,832306 ŝ 5 115.7 r--:::::::: : ::::: : 115 ~~~ IS-40 Ξ 12 *::: ===-; === : ::::: : 692 11,769 4,598 4,880 1,027 $\frac{113}{54}$ ______ Account : Room-Yarrs : : : : : : : : : : : : : : Drum A. ::::::::::: : Cost : : :: R. 120 R. 151 and R. 544 R. 257 R. 258 R. 283 and R. 450 R. 289 R. 299 R. 299 R. 509 R. 500 R

0 0 1<u>1</u>02738

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P0P40010 0 ~6<u>7</u>--92% 14 3,487 3,173 2,173 2,157 13,251 ~000000 ø 6 8554845 : 1,299 718 1,175 1,437 10 10 4,669 • • • • • • • • • • : ------61 Ħ 1,648] 524 551 510 510 4 6000000 500004d **1**8 :: 3,020 774 816 926 27 10 27 01010 œ **≓**∾ 4 86 11595° 8,582 4 21 60044 ::: 0.000004 69 AREA. 8 0141-00 PLAN 20 18 16 15 61 13 17 9 9 :::: 116 WORKING 859 2 6 978 11 1 978 18 11 978 18 11 150 15 15 150 15 1 988 10 11 1 11 5,442 1,512 978 952 150 150 988 : :::::::: 61 67 ۵۵ مانان : : : : : : : : : : : 64 ÷ : ::::::: 00000 ø ******* 2,959 11 1,2971894366732: :::::::: ::::::: :::::::: ::::::: R. 49 and R. 80 R. 169 R. 191 R. 82 R. 83 Administration Experiments Computed Fatrol

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Plantation 2 2 2 2 3 1 2 10	Protection, sery Protection, Fibe-agning, Burveys. Maintenance Fibe-agning, Pear- ments. New Con- Struttal Improve- ments. Total of Stores, Improve- Building, Supervision Surveys. Event Event Improve- ments. Nurseries, Building, &c. 2-9. Supervision	Maintenance New Con-	Natural Wursery Nursery Wursery Natural Working and Forest Surveys. Columns Stores, Columns Stores, Unemp. Overhead. Regeneration Maintenance, Experiment, Sc. Buildings, 2-9. Fodder, Holidays, Unemp. Overhead. Regeneration Maintenance, Experiment, &c.	2 3 4 5 6 7 8 9 10 11 12 14 15		CLERMONT WORKING PLAN AREA.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,556 0 1 2 15 8 71 16 4 3,348 9 0 1,227 0 2 466 5 9 1,633 5 11 5,041 14 11	DALBY WOBKING FLAN AREA.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3,899 5 10 2 12 10 25,996 15 10 629 10	FRASER ISLAND WORKING PLAN AREA.	7 816 10 6 1 ··· 1 5 18 0 1,699 15 2 246 0 4 191 6 10 3,177 1 5 2,81 12 0 1,107 16 10 1 ··· 1 8,919 8 10 7,096 10	
	Regeneration. Maintenance.	Natural Nursery	Regeneration. Working and		£ 8. d. £ 8. d.	CIJ	146655 14.05 1	0 11 2 15	H		5 10 2 12 1	FRASI		:

APPENDIX H-continued.

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continued.	
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APPENDIX	

	Reserve Total.	15	£ 8. d.
	Total Overhead.	14	£ 8. d.
ses.	Unemp. Insurance,	13	£ 8. ď.
Overhead Expenses.	Holidays, Wet Time, &c.	12	£ 8. d.
Ο	Stores, Fodder, Supervision, &c.	11	£ 8. d.
	Total of Columns 2-9.	10	ક. વું. ક
New Con-	struction of Nurseries, Bulldings, &c.	6	8. d. £ 8. d.
Maintenance	of Capital Improve- ments.		£ 8. d.
Protection,	Fire-fighting, Pear- Clearing, &c.	2	£ 8. d.
	Surveys.	9	£ 8. đ.
	Forest Experiment,	ę.	£ 8. ď.
Reforestation.	Natural Nursery Forest Plantations. Regeneration. Maintenance. Experiment	4	t 8, d. £ 8, d. £ 8, d.
Refore	Natural Regeneration.	- 	£ 8. d.
	Plantations.	63	£ 8. d.
	Reserve.	1	

GYMPIE WORKING PLAN AREA.

1 2,780 4 9 8,686 0 1 1 1 1 230 8 7 4,871 19 2	667 6 5 1,751 8	2,2503 4 1 7,567 5 3,058 5 6 8,815 4	703 14 3 1,905 5	4,204 11 3 9,169 11	2,821 10 0 5,741 6	8 10 2 8 10	1 1,004 0 10 1 2,004 14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		20	27 IO	Π	8 20,540 2 7 56,243 19 3
1,088 14 4 656 6 2	12	× ⊶	9	4	و		2 01 202	a	:	:	:		8,501 17
1,641 10 5 574 2 5	14	⇒≁	483 3	2,465 6	1,666 3	810	- c		•	:	:	Cr.824 11 11	12,038 4 11
78 18 10 5,955 15 4 3,141 10 7	-	4,704 4 4 5,756 19 5	11	4,965 0 3	16	1 : 200 ;	1,020 1 0 6	0 a 100'i	q	2,000 0	0	:	35,703 16 8
464 1 8 114 10 0	12	ĥ	5	Ξ	Ξ		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3	:	:	:		1,607 1 3
306 14 11 22 16 2	81		5 1 2	112 5 1	36 3 4	:	2 T T 7	4	:	:	:	:	604 0 1
1,750 19 4 2,180 0 2	ei ;		r-		9	:'	1,059 7 3	Þ.		2,000 0 0	:	:	17,906 8 4
78 13 10 129 16 3 605 9 4	-00		:	26 18 7	:	:	:	:	:	:	:	:	1,101 9 0
:::	:	::	:	:	:	:	:	:	:		A ST AZ	:	29 18 9
1,563 0 3		482 2 7 382 18 8	:	526 4 4	:	:	:	:	:	:	:	:	2,954 5 10
218 14 11	120 2 4	: :	247 15 6	37 15 2	332 5 8			4	:	:	:	:	1,468 16 10
1,738 5 0		2,686 10 3 3,977 2 9	- :	2.283 18 2	46 0 5	:	:	:	:	:	:	:	10,031 16 7
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278 7 1 110 7	₽ 🗆	01	0	n qe	ဆ	16	N	50	ĥ		: 	:	Cr. 69 6	5,018 13
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199 6 1 62 13 5 60 17 15	104 14	404 14	66 0 0 99	51015 2618	683 16	125 16	70 IN	0 1 H C	570 11	1		:	Cr. 69 6 2	3,694 0 3
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141 3 10	· · ·			:	: : 		:		: : : :	: 		: : : : :	:	462 6 9
	· · ·			: : : : :			:		: : : :		:			402 6 9
	· · ·			: : : : :			:			: 			b Account	402 6 9
				: : : : : : :			:					42 Line	ad Drum Account	
	· · · · · · · · · · · · · · · · · · ·						:				etetone 2	ephone 42 Line	epoone 't Lane	
							:					warce, Telephone 42 Line }	stock Account and Drum Account	402 6 9

TT and and	n-communea.
A DUENTITY	VINTITY

Overhead Expenses.	Holidays, Unemp. Overhead. Total. Total. Wet Time, Linsurance.	12 18 14 15
Over	Stores, Fodder, Supervision, v) . .
	Total of Columns 2-9.	10
	bew Con- struction of Nurseries, Buildings, &c.	6
-	manuenance of Capital Improve- ments.	8
Destanting.	Fire-fighting, Pear- clearing, &c.	2
	Surveya.	9
	Experiment.	ũ
Reforestation.	Nursery Working and Maintenance.	4
Refor	Natural Regeneration.	e
	Plantations. Regeneration. Working and Experiment.	21
	Reserve.	1

00 17 5 1 KILCOY WORKING PLAN AREA.

	1 3 688 13 11	3,367 12 5	3 14 4 16 7 5	1 270 0 4		$ \begin{array}{c} 162 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ $	ZT 82	3 938 3 11 8 614 10 7	
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ç,	R. 207 and R. 209	K. 274 R. 434	R. 480	Administration	Fire-fighting and Patrol				

KILKIVAN WORKING PLAN AREA

	3,731 16 2,880 15 8 5,715 6 6 5,716 9 6 5,716 8 8 10,810 8 8 10,810 8 8 10,810 8 8 10,810 8 10 11,226 8 8 10,810 8 10 11,266 8 9 11,266 8 9 1222 2 9 1322 2 9 1522 2 9 1522 2 9 3627 0 14	29,064 9
	1,333 0 6 995 13 3 6 594 8 8 2,594 9 3 3204 9 3 3204 9 3 3204 9 3 4,431 17 11 122 12 12 122 12 9 Cr. 336 14 11	493 18 11
	::::::::::	:
	345 3 7 413 18 3 3 4 870 2 2 2 870 2 2 2 870 2 2 2 870 2 2 1,453 15 0 1,453 15 0 1,453 15 0 166 12 1 1 1,66 12 1 1 1,66 12 1 1 1,66 12 1 1 1,66 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8,694 17 8
	987 16 11 581 15 0 581 15 0 1,434 6 5 201 3 6 2,978 2 11 2,978 2 11 1,22 2 366 3 2 366 3 2 366 14 11 Cr.336 14 11	18,570 10 1 6,799 1 3
	23398 16 3 1,894 2 5 1,894 2 5 1,894 2 5 3,430 10 10 3,430 10 11 6,768 13 6 6,768 13 6 6,768 13 6 4,757 10 11 6,475 11 8 1,225 11 1 1,225 11 1 1,255 11 11	
	52 12 7 132 18 73 15 15 35 15 3 134 7 30 11 10 30 11 10	409 13 3
YUTY NET	53 53 53 53 53 54 54 54 54 54 54 54 54 54 54	211 2 1
VALUE NETT OFTENDA NETT	1,307 9 10 2 1,307 9 10 2 206 17 11 6 603 13 4 6 603 13 4 6 603 13 4 1 246 13 2 656 11 230 11 10 611 613 6 8 6 613 6 1 10 8 613 6 8 1 10	124 19 7 5,125 14 2
	868 98 16 16 16 16 16 16 16 16 16 16 16 16 16	124 19
		:
	11 695 3 ∉ 355 3 8 1,208 17 8 569 6 0 	2 2,823 10 8
	985 8 33:::: 33::::	1,009 4
	1,679 2 0 281 3 9 2,856 9 4 2,276 2 5 233 8 8 233 8 8	8,806 6 2
	Atrona Account	
50 P	R. 138 R. 154 R. 154 R. 220 and R. 801 R. 221 R. 223 R. 255 R. 436 R. 43	

MANY PEAKS WORKING PLAN AREA.

	2,2312,19 2,512,130 5,756 5,756 1,130 7,8 5,756 1,27 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,27 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3	3	11,214 17 0
	921 17 319 4 4 2480 11 3 233 0 8 104 8 8 104 8 8 104 8 8 121 2 9		3,976 17 8
	::::::		:
	7446 0 0 7744 0 0 33 19 20 33 19 20 33 15 20 34 15 20 35 10 35		1,497 11 6
	$\begin{bmatrix} 412 & 18 \\ 174 & 17 & 10 \\ 1,705 & 11 & 8 \\ 420 & 1 & 8 \\ 20 & 1 & 8 \\ 7 & 6 & 11 \\ 121 & 2 & 9 \\ Cr. 3 & 15 & 9 \end{bmatrix}$		7,237 19 4 2,479 6 2 1,497 11 6
	1,391 1 10 811 3 4 3,275 17 6 1,166 15 7 1,264 18 2 1,264 18 2 463 9 8 463 9 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		7,237 19 4
Α.	785 12 3 32 3 10 399 14 3 110 10 11		63 U 11 1,328 1 3
I FLAN AREA.	62 12 10 2 13 10 15 14 11 1 13 6 1 13 6		TT D SO
I FEALS WURKING FLAN	$\begin{bmatrix} 1,301 & 1 & 10 \\ 17 & 5 & 8 \\ 92 & 23 & 10 \\ 11 & 33 & 7 \\ 7 & 17 & 1 \\ 7 & 17 & 1 \\ 463 & 9 & 8 \\ \ddots \end{bmatrix}$	0 725 7 a	n , voit
TETT INT	::::::::::::::::::::::::::::::::::::::	8 19 11 9 79F 7	
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	187 10 0 739 15 7 4 16 8	940 7 8	
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-	istration biting and Patrol Stock Account and Drum Account		
R. 99	R. 176 R. 176 R. 176 R. 197 Deven		

APPENDIX H-continued.

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	,_	Refore	Reforestation.			Protection, 1	Maintenance	New Con-	_	0 ^v	Overhead Expenses	es.		1
Reserve.	Plantations.	Regeneration.	Nursery Working and Maintenance.	Forest Experiment.	Surveys.	Firc-fighting, Pear clearing, &c.	of Capital Improve- ments.	tra [Total of Columns 2-9.	Stores, Fodder, Supervision, &cc.	Holidays, Wet Time, &c.	Unemp. Insurance.	Total Overhead.	Reserve Total.
F	63	~~ ·	4	ц	Ģ	-		6	10	11	12	13	14	15
	£ 6. d.	£ 3.	£ 8. d.	£ . 9 . 5	£ 8. d.	5 8 q	£ 8. d.	£ 8, d,	£ 8. d.	£ 8. d.	£ 8. d.	£ 8. d.	£ 8. d.	£ 8. d.
					MARYBOROUGH	WORKIN	G PLAN AR	AREA.						
Phona Areas	-	÷	÷ ·		6	34 9 5 1		379 0 91	13	03	16		G	13
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	:		:	;	œ	∞;	27 1 7	10 14 9	213	4 1	ç	:	2	က္ခ
:	:	3/4 11 9	:	:	:	, a	о	31 13 10	0 00	12	231 2 3	:	* <u>-</u>	4 14
and R. 62	::	355 16 0	::	::	::	0.00	• :	; ;	100	12	':	::	12	;°
61	:		:	:		19		ç	<u>۽</u>	. 1		:		610
R. 390 and R. 375	:::	802-010 1.117-85	::	::	20 15 8	310 19 5	110 10 4 8 13 10	12 16 6	1,470 13 10	498 13 9	245 18 6	::	2,380 19 4	
	::		:	:		-	1	:	r- 4			:		e - 0
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:	:	:	:	:	:	C-1	:	:	21		:	:	14 1 3	∞ •
Fire-fighting and Patrol	::	::	::	::	::	824 17 3	::	::	824 17 3	* :	::	::	*	*5
Soil Determinations.	:	:	:	:'	:	:	:	:		4 5 0	:	:	4 5 0	ŝ
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		0.057 5 7		0 0 80	1 000 1 4	11 0 10 V	150.19 9	119 5 0	11 677 1 9	5 950 15 9	0 0 0 0 1		7 000 10 2	10 00K 10 0
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	٠				WART VALLE	DITAUM VALLA	PLAN AR	R.A.						
R. 135	1.207 14	:	11.199 10 8 1	-			411 1 9	347 5 11 1	17	18	61	_	•	17
R. 256	47 8 3	:		:		°.	0 13 6	9	47 19 9		010 010 010	:	er (00 y
R. 435	2,400 14 3,279 18		366 2 4	::	• .	1,277 5 3		402 22 22		2,018	- 60	:.:	3,859 15 0	281
Administration Fire-fighting and Patrol	:::	::	::	::	::	1.367 10 5	: :	::	10	۶.	::	::	۵.	9 Q
Experiments Denot Stock Account and Drum Account	. :	::	:	589 15 2	:		:	:	580 15 2	327 10 3	:	:	807 10 3	589 15 2 397 10 3
			. :	10 11	1	4 950 7 11	Por E	7E0 0 0	05 040 10 0			 : 		
	10'8/1 1# 9	:	0 er eoe'r		-	-	1	•	0 71 740,02		0 0T A#A'n	:	R # 0/0'cr	41,012 1/ 3
				Ñ	NORTH COAST	T WORKING	PLAN ARE.	EA.						
0		1 194 4 7	:	:	:	13		0	17	18	16	:	15	15
R. 108	:	1 004 10 7	:	;	:	860 18 10	8 13 11 22 17 4	8 11 10	678 4 7 3541 16 4	14	216 2 9	:	91	
R. 249	::		: :	::	::			· .		• ↑		::	1	4
::	96 16 4	467.8	: :	: :	17 13 11	238 7 10 1.050 1 6	194 5 8 6 16 11	$\begin{bmatrix} 40 & 0 & 4 \\ 151 & 11 & 10 \end{bmatrix}$	472 13 10 1.790 9 3	81 4 7 1.052 15 9	78 3 9 754 16 3	::	159 8 4 1.807 12 0	21
10	:	273 16 9	::	: :	:	12	:		916 12	417 0	16	::	19	6
H45	874 4 0	::	1110.9 4	:	15.11 0	ωř	378 9 4	240 14 7	6 4 0 0 0 0	- - -	8 <u>1</u> ~	:	с ч	8
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808 	* :	47 6 9	6 10 10		:	â	165 9 0	28 5 2	0	265 19 0	901	::	493 1 5	ŝ
Firs-fighting and Patrol	::	::	::	: :	::	2,213.7 4	::	::	2,213 7 4	A :	::	::	a :	2,213 7 4
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-	9,264 12 5	5 1,987 16 5	1,116 13 2	592 14 10	709 4 3	16,302 18 5	1,890 9 10	915 17 8	32,780 7 0	9,765 0 5	7,261 4 8	:	17,026 5 1	49,806 12 1

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	Reserve Total,	15	£ 8, đ.	1,505 18 1 754 9 7	001	$\begin{array}{c}1&6&2\\530&18&9\\278&18&0\\15&7&8\\118&6&1\end{array}$	4,241 12 4		14 19 10	14 19 10			6 10 1 117 12 9 18 16 9 5 7 9	- -	878,741 18 0	8,477 19 1 2,1757 19 1 2,1757 7 8,2757 7 8,4 11 8,4 11 8,4 11 7,683 9,10 7,683 9,10 7,683 9,10 6,7 19 8,3 10 7,683 9,10 6,7 10 6,8 2 6,7 10 6,7 10 6,8 2 6,7 10 6,7 10 6,7 10 6,7 10 7,00 7,00 7,00 7,00 7,00 7,00 7,00 7,
	Total Overhead.	14	£ 8. ď.	406 7 10 306 10	.00	530 13 9 118 5 1	1,757 2 7		:			1,085 14 9 1 520 4 3 189 14 11	££	·¦≓	138,303 7 2	
68.	Unemp. Insurance.	13	£ 8. d.	:	::::	:::::			:			:::	:::	: :		
Overhead Expenses.	Holidays, Wet Time, &c.	12	£ 8. d.	135 8 11 186 13 10		:::::	416 17 0	-	:		-	521 3 4 207 3 6 74 13 6	:::	803 0 4	50,380 15 1	
Ovel	Stores, Fodder, Supervision,	=	£ 8. d.	271 8 11 130 16 9	12	530 13 9 118 5 1	1,340 5 7		;			564 11 5 313 0 9 115 1 5	a*	- =	87,922 12 1	
	Total of Columns 2-9.	10	£ 8. d.	10	518 4 4 114 10 9	9 8 4	2,484 9 9]		14 19 10	14 19 10		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	117 12 9 18 16 9	4,003 15 0	240,438 10 10 8	
	area out- struction of Nurseries, Buildings, &c.		£ 8. ď.	AREA. 152 3 7 43 0 1	 ' : : :	::::	194 3 8	A.	:			10 2 0	:::	10 2 0	14,124 8 1 2.	······
	manuenance of Capital a Improve- ments.	~~~~	£ 8, d.	PLAN 9 11 9	*	° °	89 11 2	PLAN AREA.	:		PLAN AREA	85 17 0 38 6 2 12 16 8	:::	136 19 10	7,820 7 0 1	· · · · · · · · · · · · · · · · · · ·
	Frowcount, Fire-fighting, Pear- clearing, &c.	-	£ 8. d.	AND WORKING 141 12 6 1 15 22 16 7 1		278 18 0	630 16 3	N WORKING	:		WORKING	1,296 17 0 1 351 3 9 180 10 6	117 12 9	1,946 4 0	111,632 7 5	······
	Surveys.	æ	£ 8. d.	QUEENSI 2 9 8	:::		2 9 6	ROCKHAMPTON	;	:	WARWICK	22 13 10 .:	:::	22 13 10	4,227 12 2	·····
	Forest Experiment.	ю	£ 6. d.	NORTH	:::	 157 	15 7 8	B	14 19 10	14 19 10	-	:::	18 16 9	18 16 9	2,047 9 9	·····
Reforestation.	Nursery Working and Maintenance.	4	£ 8. d.	174 18 7		~ 	182 9 6	-	:		-	181 11 5	::::	181 11 5	16,592 11 7	e of Seed
Refore	Natural Regeneration.	8	£ 8. d.	::	:::	:::::	:	_	;		-	544 11 4 285 10 7	::::	830 1 11	20,109 17 7	Pay Roll Tax
	Plantations.	5	£ 8, d.	201 0 5	161	:::::	1,369 12 0		:			857 5 3	: : : :	857 5 3	63,883 17 3	Pay R Admir Collect Store Store Store Faren Barpar Hawite Head
	. Avec ve	1		185 :: :: :: :: :: 191	::: ::: :::	Administration			R.20				Fire-fighting and Patrol		Grand Totals	

APPENDIX H-continued.

APPENDIX I. Areas of Plantation Established.

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TT-shin = 101.	Reserve	(A.	alypts. Cres.)		woods. cres.)		Species. cres.)	All Sj (Ac)	ecies. es.)
Working Plan Area.	No.	1946-47.	To 30th June, 1947.	1946-47.	To 30th June, 1947.	1946-47.	To 30th June, 1947.	1946-47.	To 30th June, 1947.
Brisbane Valley and Nanango	283 289 120	30-0 3-0	$220.0 \\ 246.9 \\ 75.0$	243·0 215·0	*3,084·7 2,564·5 867·8	 3.0	9.0	273-0 221-0	3,304·7 2,820·4 942·8
	379 257	•••	104.5		40·0 1,293·1				40·0 1,397·6
	299		20.0		1,405.5	•••	••	••	1,397.6
	151 509	•••			148·0 680-9	••	••		148-0 680-9
Totals		33.0	666·4	458.0	10,084.5	3.0	9.0	494-0	10,759-9
Fraser Island	3		161.0		749.5		••		910-5
Kilcoy	893		142.5		1.5				144.0
	$ 137 \\ 207 $	 	2·5 2·0	112.0	721·2 373·0	••	·	112 0	723·7 375·0
Totals			147.0	112.0	1,095.7			112.0	1,242.7
Gympie	392			79.0	608.5			79.0	608-5
	502		60-0						60.0
	393 234		333∙0 54∙0			••	••		333·0 54·0
	124			102.0	993-7	•••		102.0	<u>993</u> ∙7
	242 Pomona	136-0	 136-0	122.0	725.0	••	· · ·	$122.0 \\ 136.0$	725 0
Totals	 	136-0	583.0	303-0	2,327.2			43 9·0	2,910-2
Kilkivan	355	·	8.0	- <u></u>	127.5	·	•	•••	135.5
	220 298		 77•4	55·0 174·0	734.4	1 ••		55.0	734.4
	154		14.0		1,116·8 124·0			174·0	1,194·2 138·0
	138		5.0	89.0	185-0	•••		89-0	190-0
Totals		 	104.4	318-0	2,287.7	· .		318·0	2,392-1
Mackay	12				30.5	· · ·			30.5
Many Peaks	95			67.5	958-1			67.5	958·1
Mary Valley	135	••	6.0	327-0	5,171.7	••	1.0	327.0	5,178.7
	$ \begin{array}{c} 435 \\ 256 \end{array} $		2·0	••	$2,624 \cdot 2$ 134 \cdot 2	••	••	••	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	274		••	91.0	212.1	••		91 ·0	212-1
Totals			8.0	418 ∙0	8,142.2		1.0	418-0	8,151-2
North Coast	561		5·0	 406∙0	1,323.0	•••	6 ∙7		1,334.7
	$589 \\ 611$	••	$12.0 \\ 377.8$	400.0	2,633·0	••	••	406·0 	2,645·0 377·8
	318 583	}	175.0		43 ·5			••	218.5
	249	, 	20·0 ·						20.0
Totals	·		589-8	406-0	3,999∙5	•••	6.7	406 ∙0	4,596.0
North Queensland	185		••	23.8	23.8	14-4	14.4	38.2	38.2
	191 194		$51.8 \\ 109.5$	•••	$581 \cdot 1 \\ 22 \cdot 0$	••	$24.8 \\ 12.5$	••	657-7
	310		103-5	· · ·	392.9		360-0	• •	144·0 766·7
	418		••			••	4.0		4.0
Totals	·		175-1	23.8	1,019-8	14.4	415.7	38.2	1,610-6
Warwick	263		0.3	77.0	1,134.0	•••	18.5	77.0	1,152-8
Experimental Areas	- 195				45.5		0.7		
Imbil			4·0 	,	47·5 5·0		9·7	••	61·2 5·0
Fraser Island	3		••		8.0				8.0
Dalby Dalby	4 93	<i></i>		· · ·	$0.2 \\ 1.0$			••	0-2
Rockhampton	20				7.0	•••	••	••	7.0
Gympie Bribie Island	451 603		••		17·9 0·7	••		• •	17·9 0·7
Totals			<u> </u>		87.3		9.7		101-0
Grand Totals		169.0	2,439.0	2,183.3	31,916.0	17.4	460.6	2,369.7	34,815.6
Unand Lovans	Ι		-,v	-,		1, 1	±00.0	2,000° (34,010.0

* Allowance made for 44 acres lost by fire.

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					Areas	JI Hatul	al 10163	t Ireatet	L.				•
					Eucalypts. (Acres.)			Softwoods. (Acres.)		(Other Specie (Acres.)	5.	All Species. (Acres.)
Working Pl	an Are	a.	Reserve No.	Treated 1946–47.	First Treatment 1946–47.	Total as at 30th June, 1947.	Treated 1946–47.	First Treatment 1946–47.	Total as at 30th June, 1947.	Treated 1946–47.	First Treatment 1946–47.	Total as at 30th June, 1947.	Total as at 30th June, 1947.
Brisbane			69			1,548	 '	 ••	.,	 		••	1,548
			$1,376 \\ 215$	342		1,566						•••	1,566
			702	 150	150	$925 \\ 1,869$					••	•••	925 1,869
		i	494	224		1,040		•••	••			••	1,040
			446 667	273		980 914		••	•••		· · ·	••	980 914
			309	227	227	2,133	••	•••	••			••	2,133
			1,355	· · ·	· · ·	1,625	••	•••				••	1,625
Totala	••	••	· · ·	1,274	377	12,600		· · ·		···		•••	12,600
Brisbane Va	lley	and	283			2,149			747			40	2,936
Nanango			$\begin{array}{c} 289 \\ 257 \end{array}$	•••	••	$\begin{array}{c} 32 \\ 125 \end{array}$			· 25	•••			57
			151				••	•••	337	•••	•••	66 	191 337
			299	••		50			332				382
			$\begin{array}{c} 509 \\ 527 \end{array}$			$1,616 \\ 5,045$	51	51	51 	••	•••	••	$1,667 \\ 5,045$
Totals			·····			9,017	<u>_</u>	51					
TOPAIR	••		···				51		1,492		···	106	10,615
Bundaberg ···	•••	· • • •	169	••			••		9,902				9,902
		l	80, &c. 191	3,097 3,110	3,110	9,060 7,084	••	••	•••				9,060
			723			564		•••				•••	7,084 564
			832	2,165	1,943	4,642	••	••	••	••	•••	••	4,642
Totals	•••	• • •	•••	8,372	5,053	21,350			9,902	···		••	31,252
Clermont	••	•	117 127	5,750 8,803		10,820 18,370	••	••	••		 		10,820 18,370
Totals			••	14,553		29,190	••	•••					29,190
Dalby	••	•••	93 141	••	••	$\begin{array}{r}14,721\\802\end{array}$	••	••	1,124	••		••	15,845
			4	•••		6,485	••	••	••		••		$802 \\ 6,485$
			83	••		5,567				••		•••	5,567
			78 34	••		1,270	5,888	3,704	$35,283 \\ 2,496$	•••			$35,283 \\ 3,766$
			150	•••		••	178	84	6,612	••		••	6,612
			139 16	1,262		950 3,418	8	8	$\begin{array}{c} 274 \\ 19,131 \end{array}$		•••	••	1,224
			127	••		••	••		765		•••		$22,549 \\ 765$
			$\begin{array}{c} 126 \\ 154 \end{array}$	••		•••	814	160	$3,450 \\ 20,953$	••		••	3,450
		1	58	••					1,865				20,953 1,865
			$\begin{array}{c} 60\\ 328\end{array}$	••	••		••	••	$2,265 \\ 305$	•••	••	••	2,265
			155	••				••	1,457	••	•••	•••	305 1,457
Totals	••	• • •	•••	1,262	 	33,213	6,888	3,956	95,980		•		129,193
Fraser Island	•••		3	1,114	846	13,527			2,310				15,837
Inglewood			70					ĺ	07 001				
	••	••	$\begin{array}{c} 79\\122 \end{array}$	•••			•••		$27,321 \\ 19,145$	••		••	$27,321 \\ 19,145$
			117		••	9,239			•••				19,145 9,239
			$\begin{array}{c}101\\134\end{array}$	•••	•••	10,024	1,248	1,085	12,844	•••	•••	••	10,024
			81			2,470	••			•••			$12,844 \\ 2,470$
			$\begin{array}{c} 76 \\ 48 \end{array}$	60 		2,440	660		3,959	••			2,440
			136						3,505 1,528	•••			$3,959 \\ 1,528$
			$\begin{array}{c}132\\120\end{array}$		••	$\begin{array}{c} 207 \\ 298 \end{array}$			 515				207
Totals	••			60		236	1,908	1,085	65,312	··· ···			813 89,990
		ŀ						<u> </u>			ŀ		
Kilcoy	••	••	370	1,216	1,126	1,126							1,126
			893 637	14		$2,497 \\ 1,168$			••		·.	••	2,497
		-		— <i>—</i>									1,168
Totals		!	}	1,230	1,126	4,791				1			4,791

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APPENDIX J.

Areas of Natural Forest Treated.

APPENDIX J.—continued.

Areas of Natural Forest Treated-continued.

				Eucalypts. (Acres.)			Softwoods. (Acres.)		. 0)ther Species (Acres.)	3.	All Species. (Acres.)
Working Plan Are	a.	Reserve No.	Treated 1946-47.	First Treatment 1946–47.	Total as at 30th June, 1947.	Treated 1946–47.	First Treatment 1946–47.	Total as at 30th June, 1947.	Treated 1946–47.	First Treatment 1946–47.	Total as at 30th June, 1947.	Total as at 30th June, 1947.
Kilkivan .	•••	221	80		. 1,730			560			••	2,290
		220			••			155 40			••	155 40
		$\frac{355}{26}$	• • •					150	••		••	150
		494	••		1,350	••	••		••	••	••	1,350 16,836
		$\begin{array}{c} 24/12 \\ 424/7 \end{array}$	2,800	2,740	16,836 80				••		••	10,850
Totals	••	·	2,880	2,740	19,996		··	905			••	20,901
fany Peaks	••	28 150	••		$4,561 \\ 1,811$			••	••		•••	4,561 1,811
Totals			,		6,372	·				- -		6,372
	••				0,372		·		••		••	
faryborough	••	287 435	5,523	· · ·	13,666	••	··· ··	240 			••	240 13,666
		59	• •		1,147	••			• • •		••	1,147
		$\begin{array}{c} 62\\12\end{array}$	$1,240 \\ 1,425$	1,305	$4,111 \\5,130$	••			••	••	••	4,111 5,130
		390	1,425 2,756	2,180	14,128	••	••	••	••	•••	••	14,128
		8	••	 	12,208	•••			••		••	12,208
		$27 \\ 1$	• •		7,736 1,639	••		272	••	•••	••	7,736 1,911
Totals			10,944	3,485	59,765			512			•••	60,277
fary Valley		135		 	159		 	277	<u>_</u>	·····		436
		435	•••					70			55	125
Totals	••	·			159			347	••		55	561
forth Coast	••	318	361		3,730							3,730
	••	313			1,824	••					••	1,824
		583	••		1,455	••	••	••	••	••	••	1,455 3,612
		445 249	••		$3,612 \\ 1,299$	••	••	••	••		••	1,299
		60	25		1,410	••			••		••	1,410
		$\begin{array}{c} 611 \\ 589 \end{array}$	••		$2,223 \\ 53$	••		••	••		••	2,223 53
		108	••		1,750	••	••		· · ·		••	1,750
		173	572		2,499	••	••	••	••	••	••	2,499 295
		531 370	••		$\begin{array}{c} 295 \\ 1,220 \end{array}$	••	••	••	••		••	1,220
Totals			958		21,370	•••	·					21,370
ympie		393	360	·	3,020		····				•••	3,020
ympie	••	234	200		1,730	••		••			••	1,730
		502	130		1,568	••			••		••	1,568 2,355
		627 700	$\frac{250}{\cdot \cdot}$		$2,355 \\ 3,672$	••	••	••	••	··· ·:	••	3,672
		124	••		770				••		••	770
		Pomona Tewantin				••	••				••	107
		Travestor		200	200						····	200
Totals	• •	·	940	307	13,422	•••		··-	•• 		···	13,422
Jorth Queensland		191	••		••						53	53
		194	••		175	••	••	••	••	••• (128	$175 \\ 128$
		310 418	••	••	•••	• •		•••	••	•••	43	43
		452	••			• •		••	••	••	20	20 339
		245 243	••		$339 \\ 1,457$	••		••	••		••	1,457
Totals		· · ·		·	1,971	 				· · ·	244	2,215
								·	·			2,700
Varwick	••	444 574	$1,250 \\ 1,419$		$2,700 \\ 4,022$	••	· · ·	••	•••	•••	•••	4,022
Totals		·	2,669		6,722		· · ·	•••	••		•••	6,722
Grand Totals			46,256	13,934	278,143	8,847	5,092	176,760	••		405	455,308

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APPENDIX K.
Summary of Forest Survey Work—Year ending 30th June, 1947.

		Reser	ve				I	Parisl	1 .			Area in Acre
		CLASS	1—I1	SPECT	ION OF	VAC.	ant Crown Land an	D T	IMBER .	Reserv	/ ves.	
756 18,174	 	 	••	 	 	 	Jordan (part) Clifford, Winterbour	ne	•••		::	4,022 53,440
							Total	••	••		[57,462
					CLASS	2	ASSESSMENT SURVEY:	s.			'	
756			• •				Jordan		••		••1	4,426
350							Niagara (proceeding)					1,200
30							Garioch (proceeding)					-,=00
Wendul Hole			•••	••			Badgery		•••		. 1	38,500
Badgery Hol							Badgery					3,500
Badderam H							Western Creek					6,750
Kirrama Hol							Blencoe					2,000
Portions 4, 5							Bulli					21,940
Portions 531,							Dirran					1,501
Portions 1 to			•••				Stapylton					6,690
Portion 49						•••	King					714
Portion 260		••					Tuchekoi	•••				176
Portions 40,			•••	•••			Ravenshoe, Woodlei		•••			3.669
16				•••			Ballon					40,000
14 & c		••	••				Hookswood, &c.		•••			89,266
							Total					220,332
				_				••				
· · ·			CLAS	s 3—I	NTENSIV		ONTOUR AND ASSESSM	IENT	SURVE	YS.		0.000
344	••	••	••	••	••	••	Bankton	••	••	••	•••	8,000
				Сомі	PARTMEN	гт, І	TIBEBREAK OR SOIL S	URVI	eys.			
14, 47, 86	• •		••	••	••		Hookswood, &c.		••	••)	6,000
16		••	••		••		Ballon		••			11,000
Repurchase		••	••	• •			Tewantin	••	••			3,558
Vacant Crow	n Land	۱	••	••	••	••	Poona (proceeding)	••	••			3,000
							Total		••	• •	(23,558

Reserve.						Parish.			Area Stripped. (Acres.)	Plots Dealt With		
154							Vignoles		••			173
150	••			••	••		Dunmore		• •	••		125
16		••	••	••	• •		Malcolm	• •	••			923
5 4, 16	• •	••	••				Ballon	• •			40,000	499
35	••		••	••	••		Brooloo	••	••			150
289	• •	••	••		••		Cooyar		••			100
20	••			••	••		Neumgna	••	••			30
83	••	••	••	••	• •	••	Colinton	••	•••	••		107
							Tota	۱	••		40,000	2,107

MISCELLANEOUS SURVEYS.												
Reserve and	Parish.		Compartment Number.	Logging Area.	Mis. Chs.	Remarks.						
135 Cambroon274 Cambroon135 Brooloo135 Brooloo124 Glastonbury242 Widgee220 Kilkivan298 Gallangowan435 Gundiah435 Gundiah904 Palmerston137 Yabba207 Monsildale207 Monsildale208 Gooyar289 Cooyar299 Avoca295 Cooyar	· · · · · · · · · · · · · · · · · · ·		$\left.\begin{array}{c} & \ddots & \\ & \ddots & \\ & \ddots & \\ & \ddots & \\ & 1 & & \\ 1 & & \\ & & \ddots & \\ & & & &$	Woodrow Allen Araucaria, &c Moorooreerai, &c Spring, Central Gallangowan Jiggera, Atthow Jimna Winch Pocket Tarong Cooyar Paradise	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Planting Road Boundaries Scrub breaks Road Planting						
258 Cooyar 151 Neumgna 638 Beerwah 589 Beerwah 263 Pikedale	••• •• ••	••• •• ••	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	West Barker Twins Six Míle	$\begin{array}{c cccc} 3 & 32 \\ 0 & 21 \\ 10 & 46 \\ 48 & 39 \\ 12 & 65 \end{array}$	Road, planting Planting Planting Planting Species						
95 New Cannindah 95 New Cannindah		••	$\begin{array}{ccc} 2 & \ddots \\ 1 & \ddots \end{array}$	Hunting	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Planting Planting						

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APPENDIX L.

State Forests, Timber Reserves, and National Parks at 30th June, 1947.

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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Area. A. R. F 3,552 2 114,467 0 57,632 1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3,552 2 114,467 0
Bowen899,0200035Brisbane64 $184,399$ 3 2139 $91,132$ 2 3335Bundaberg30 $120,844$ 0 2726 $1144,975$ 16Cairns6 $108,810$ 0 3613 $444,073$ 2020Charleville2 $20,037$ 00Charters Towers2 $125,550$ 00Clemont2 $125,550$ 00Cloncurry1 $4,290$ 00Coktown8 $623,510$ 007Dalby1 $4,790$ 0012 $41,396$ 13Gayndah1 $3,170$ 01 $3,170$ 0Gayndah3 $17,917$ 21 $3,170$ 03Igamoda3 $17,917$ 23 $86,890$ 03 <t< th=""><th>114,467 0</th></t<>	114,467 0
Brisbane 64 $184,399$ $3 21$ 39 $91,132$ $2 33$ 35 Bundaberg 30 $120,844$ $0 27$ 26 $114,975$ $1 6$ Cairns 6 $108,810$ $0 36$ 13 $444,073$ $2 0$ 20 Charleville 2 $20,037$ $0 0$ Charters Towers 2 $125,550$ $0 0$ Cloncurry 2 $125,550$ $0 0$ Clocktown 1 $4,290$ 0 Coktown 1 $4,290$ 0 Coktown 1 $4,790$ 0 12 $41,396$ $1 3$ Gayndah 1 $4,790$ 0 0 24 $81,843$ 31 4 Goondiwindi 1 $4,790$ 0 0 24 $81,843$ 35 Ingham 1 $13,710$ 0 0 23 5 Ingham 1 $13,710$ 0 0 24 Ipswich 1 $14,920$ 0 0 Ingham 1 $15,302$ 24 23 $66,487$ 0 <tr< th=""><th></th></tr<>	
Bundaberg 26 $114,975$ 1 6 Cairns 6 $108,810$ 0.36 13 $444,073$ 2 0 20 Charleville 2 $20,037$ 0 Charters Towers 2 $125,550$ 0 0 Clermont 2 $126,500$ 0 0 Cloneury 1 $4,290$ 0 0 Cooktown 31 $711,758$ 314 9 $61,152$ 324 1 Gayndah 31 $711,758$ 314 9 $61,152$ 324 1 Gayndah 31 $711,758$ 314 9 $61,152$ 324 1 Gayndah $31,7917$ 2 0 1 $3,170$ 0 $Gympie37,644132869,0851235Ingham19185,47623538,397035Ingham11402,0822182000Ingham<$	57,632 1
Cairns 20 Charleville 22 20,037 0 0 Charters Towers 22 125,550 0 0 Clermont 2126,500 0 0 2 144,390 0 0 Cloncurry 1 4,290 0 0 Cooktown 8 623,510 0 0 7 Dalby 8 623,510 0 0 Gayndah 1 4,790 0 124,1396 1.3 Gympie 3 68,890 0 3 Ingham	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	92,300 3 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	•.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10,691 0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	13,100 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	230 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Herberton7 $73,644$ 1328 $69,085$ 1235Ingham3 $68,890$ 003Ingham3 $68,890$ 003Ingham11 $402,082$ 21820Innisfail11 $402,082$ 21820Jpswich1 $25,600$ 00Jundah1 $18,450$ 019 $149,385$ 050Mackay11 $96,480$ 32016 $129,843$ 22Nanango11 $96,480$ 32016 $129,843$ 22Nanango1 $20,500$ 0Springsure1 $20,500$ 0St. George1 $3,072$ 0Taroom1 $3,072$ 0St. George <td< td=""><td>922 2</td></td<>	922 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3,361 3 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,835 0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,000 0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	105.987 1 3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4,344 0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9,014 0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	144,761 0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	805 0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	000 0
Rockhampton 7 $171,068$ 1 0 15 $103,863$ 2 22 16 Roma 10 $89,434$ 3 22 1 $8,600$ 0 0 1 Springsure 1 $20,500$ 0 Stanthorpe 3 $6,585$ 1 18 6 St. George 3 $21,486$ 0 4 $33,185$ 2 0 Taroom 19 $208,208$ 1 24 15 $27,805$ 1 27 5	9,605 2 1
Roma 10 89,434 3 22 1 8,600 0 0 1 Springsure 1 20,500 0 0 Stanthorpe 3 6,585 1 18 6 St. George 6 6 Taroom 19 208,208 1 24 15 27,805 1 27	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	65,000 0
St. George 1 3,072 0 Taroom 3 21,486 0 4 33,185 2 0 Toowoomba 19 208,208 1 24 15 27,805 1 27 5	10001 0
Taroom 3 21,486 0 4 33,185 2 0 Toowoomba 19 208,208 1 24 15 27,805 1 27 5	12,604 3
Toowoomba 19 208,208 1 24 15 27,805 1 27 5	••
	0.550 0
TOWNSVILE	3,552 0
	60,000 0
422 3,457,231 1 33 346 3,092,274 1 21 225	707,566 1 3
At 30th June, 1947-	A. R. P.
Total Area reserved for State Forests	.457,231 1 33
	,497,231 1 33
Total Area reserved for National Parks	707,566 1 30
Total Reservations	,257,072 1 4

APPENDIX M.

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Reservations for the year ended 30th June, 1947.

State Forests.—Twenty-one State Forests with a total area of 54,305 acres were proclaimed during the year. The largest of these are as follows :—

Acres.							Land Agent's Districts.			
25,750	Reserve 20, Maryvale	• •		••	• •		·	Rockhampton		
4,320	Reserve 638, Beerwah		••				••	Brisbane		
4,282	Reserve 171, Waggaba		••	••			••	Toowoomba		
4,093	Reserve 54, Umbercollie	••		••		••		Goondiwindi		
3,831	Reserve 175, Formartine	• •	••					Cairns		
2,429	Reserve 172, Weranga	• •				• •		Dalby		
1,559	Reserve 906, Gutchy	••			••••••	••		Gympie		
1,278	Reserve 58, Burraburri	•		••				Dalby		
1,248	Reserve 940, Gundiah			••	••		••	Maryborough		
1,133	Reserve 727, Nerang	••				••		Brisbane		
907	Reserve 559, Brooyar	• •	••	••	••	••	• •	Gympie		

APPENDIX M.—continued.

1946.	Timber Reserves.	-At 30th June, 1947, the n	umber	of Ti	mber]	Reserv	'es is 34	6 as 1	against 331 at 30th June,
	Twenty-four nev	v areas with a total of 78,875	acres	were re	eserved	l, the l	largøst b	eing-	
	Acres.							Lan	d Agent's District.
	24,880	Reserve 39, Borania	••		••		••		Monto
	23,960	Reserve 168, Calrossie and	Trevet	than				• •	Monto
	7.246	Reserve 165, Ferrett.					••		Dalby
	5,478	Reserve 64. Beeron	••						Gayndah
	5,026	Reserve 167, Ferrett.							Dalby
	1.847	Reserve 952, Tewantin and							Gympie
	1,455	Reserve 681, Kilcoy		•••					Brisbane
	1,439	Reserve 567, Glenbar							Maryborough
	1,177	Reserve 565, Glenbar						•••	Maryborough
	1,110	Reserve 734, Palen							Brisbane
	1,110	Reserve 566, Glenbar	••	••					Maryborough
			••	••	••	• •	••	••	Gympie
	1,033	Reserve 951, Traveston	••	••	••	••	••	••	сущие

25,563 acres were converted to State Forests, 480 acres converted to National Park, and 3,427 acres were

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released for selection. 1,700 acres were added to existing reserves. National Parks.—Four new National Parks with a total of 1,231 acres were proclaimed during the year, these being----Land Agent's District.

Acres.						La	nd Agent's Distri
820	Reserve 733, Numinbah				 		Brisbane
287	Reserve 724, Roberts			••	 		Brisbane
78	Reserve 731, Numinbah (Sphinz	z Look	out)	 		Brisbane
45	Reserve 41, Mudgeeraba	(Burlei	igh Hea	ad)	 		Brisbane

1st JULY, 1946, TO 30th JUNE, 1947.

STATE FORESTS.

	STATE]	FOREST	8.						
At 1st July, 1946	·· 947 ··	•••	•••	•••	••	No. 401 21	A. 3,402,926 54,304	2	р. 8 25
Total at 30th June, 1947	••	••	••			422	3,457,231	1	33
		*							
•	TIMBER 2	Reser	VES.					_	
At 1st July, 1946		••	••		• • •	331	3,041,169	-	14
Proclaimed 1st July, 1946, to 30th June, 1		••	• •	••	••	24	$78,874 \\ 1,700$		18 0
V.C.L. added to existing Reserves	••	••	••	••	••	••	1,700	0	
Reserves cancelled			••		••	355 9	3,121,744 3,427		32 30
					_	346	3,118,317	1	2
Converted to State Forests Converted to National Parks		:. 		A. 25,562 480	R. P. 3 21 0 0		26,042	-	21
Total at 30th June, 1947		••		••		346	3,092,274	1	21
	N T	- D							
At 1st July, 1946	NATION/	AL PAR	tks.			221	706,335	2	27
Proclaimed 1st July, 1946	947					4	1,230	- 3	
10000000000000000000000000000000000000		.,			-				
Total at 30th June, 1947		•• ·	••	••	••	225	707,566	1	30
Total Reservations at 30)th June,	1947				••	7,257,072	1	4

APPENDIX N.

Expenditure Surveys-Financial Year 1946-1947.

PARTICULARS OF SURVEY-									
Harvesting and Marketing Project-							£	8.	d.
Inventory Survey R. 16, Malcolm	and B	allon	••		• •		3,993	$\underline{2}$	2
Inventory Survey R. 150, Dunmo	re	••	••				179	19	5
Inventory Survey R. 154, Vignole	s	•••		• •			585	- 9	2
Gympie Road Traverse-R. 393	••	••			• •		7	0	8
Kilcov-R. 104, Yabba				••			2	- 0	4
Mary Valley-18v, Cambroon	••	••	••				0	6	4
R. 496, Monsildale				• •	••		4	1	2
Mary Valley-Miscellaneous Surve	eve	• •	·	••		• •	7	2	3
Tumoulin	•	••				• •	294	8	10
Garioch			• •				558	6	2
R. 353, Ongera			• •	• •			2,483		
Kirrama		• •					2,144	- 8	11
						-			
							£10,260	3	6
						-			

Expenditure Surveys-Financial Year 1946-1947.-continued.

s.

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oforestation Branch Projects-							inued.	
	-							
Brisbane-								£ s. d.
R. 446, Miscellaneous						••		0 7 2
Brisbane Valley	••	••	••	••	••	• •	••	0.2
			R 4					0 5 9
R. 120, Cpt. and Sub-C				••	••	••	••	9 5 3
Firebreak Surv	ey	••	••	••	••	••	••	1 18 9
Miscellaneous	•••	••	• •	••	••	••	••	509
Forest Invento			••	• •	••	••	••	48 12 5
R. 151, Cpt. and Sub-C	pt. S	urvey	••	••	• •	••	••	8 15 9
Miscellaneous		* *		• •	•••	••	• •	9100
R. 257, Cpt. Survey	••	••			••		••	744
Firebreak		••						0 7 2
Miscellaneous						••	••	3 0 9
R. 258, Cpt. Survey	••							$13 \ 11 \ 6$
Firebreak				••			••	4 13 2
R. 283, Cpt. Survey								9 9 5
Miscellaneous				••		••	••	49 5 9
Forest Invento		•••				•••		241 10 6
R. 289, Forest Invento	-J PV							165 5 10
Cpt. Survey	· · ·		•••					26 7 3
Firebreak			•••					3 15 2
Miscellaneous	••							63 0 4
R. 299, Miscellaneous		••	••	••	••	••	••	0 16 7
	••	••	••	••	••	••	••	• - • ·
R. 328/9, Miscellaneous		••	••	••	••	••	••	
R. 379, Cpt. Survey	••	••	••	••	••	••	••	3 19 6
Miscellaneous B 597 (0 Firebrook	••	••	••	••	••	••	••	
R. 527/9, Firebreak	••	••	••	••	••	••	••	20 11 3
Fraser Island								1 4 -
R. 3, Soil—Bidwell	••	• •	••		• •	••	••	1 6 1
Cpt. Survey	••	••	••	••	• •	••	••	1 1 0
Miscellaneous	••	• •	••	••	••	••	••	3 10 11
Gympie								
King Areas, Class 3 Su	гүөу	••	••	• •	••	••	••	$78 \ 13 \ 10$
Pomona-								
Timms	••	••	••		••	••	••	22 11 6
Class 3 Survey	••	••	••	••	••	••	••	10 0 7
Firebreak	••				••	••	••	97 4 2
Tewantin—Firebreak	••			••	• •		••	605 9 4
Traveston-Miscellaneous		••				• •	••	$2 \ 3 \ 2$
R. 82, 242, Firebreak	• •	••		••			••	990
R. 124, Firebreak				••			••	$217 \ 13 \ 1$
Miscellaneous					••			31 5 9
R. 392, Cpt. Survey				••	• •			1 12 0
Miscellaneous		••	•••			••		25 6 7
Kilcoy-								
R. 137, Class 2 Survey		••			••	••		970
Class 3 Survey			••		• •			32 2 8
Cpt. Survey							••	90 12 4
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R. 207, Cpt. Survey							••	12 17 1
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R. 274, Miscellaneous		••	••	•••	••	••	••	3144
R. 434, Cpt. Survey	••	••	••	••	••	••	••	
R. 480, Miscellaneous	••	••	••	••	••	••	••	
Kilkivan	••	••	••	••	••	••	••	$2 \ 0 \ 4$
R. 138, Firebreak								0 0 0
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R. 154, Cpt. Survey	••	••	••	••	• •	••	••	8 16 10
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R. 220, Firebreak	••	••						
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R. 298, Firebreak	••	••	••	•••	•••	· · · ·	 	9 5 2 47 16 1
R. 298, Fírebreak R. 355, Fírebreak	••• ••	•••						952
R. 298, Fírebreak R. 355, Firebreak Many Peaks—	••		••	••	••	••	••	9 5 2 47 16 1 3 13 11
R. 298, Fírebreak R. 355, Firebreak Many Peaks R. 95, Firebreak	••• ••• ••		••	••	••	••	••	9 5 2 47 16 1
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R. 298, Fírebreak R. 355, Firebreak Many Peaks R. 95, Firebreak Maryborough Poona Surveys Soil Surveys	· · · · ·	••	••	••	•••	 	•••	9 5 2 47 16 1 3 13 11 8 12 11
R. 298, Firebreak R. 355, Firebreak Many Peaks R. 95, Firebreak Maryborough Poona	••• •••	•• ••	•••	••• •••	•••	•••	•••	9 5 2 47 16 1 3 13 11 8 12 11 7 13 0 714 17 3
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R. 298, Fírebreak R. 355, Firebreak Many Peaks	••• ••• ••	•• ••	· · · · ·	••• •••	· · · · ·	· · · · ·	··· ··· ··	9 5 2 47 16 1 3 13 11 8 12 11 7 13 0 714 17 3 165 12 9 12 2 11
R. 298, Fírebreak R. 355, Firebreak Many Peaks R. 95, Firebreak Maryborough Poona Surveys Soil Surveys Tin Cay Bay Area- Planting Surveys R, 1. Soil Surveys Miscellaneous	••• ••• ••	••• ••• ••	· · · · ·	· · · · · · ·	· · · · · · ·	··· ··· ···	··· ··· ···	9 5 2 47 16 1 3 13 11 8 12 11 7 13 0 714 17 3 165 12 9
R. 298, Firebreak R. 355, Firebreak Many Peaks R. 95, Firebreak Maryborough Poona Surveys Soil Surveys Tin Cay Bay Area Planting Surveys R, 1. Soil Surveys Miscellaneous R. 8, Miscellaneous	••• ••• ••	· · · · · · ·	· · · · ·	· · · · · · · ·	· · · · · · ·	· · · · · · ·	··· ··· ···	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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R. 298, Firebreak R. 355, Firebreak R. 95, Firebreak Mary Peaks R. 95, Firebreak Maryborough Poona Surveys Soil Surveys Tin Cay Bay Area Planting Surveys R, 1. Soil Surveys Miscellaneous R. 300, Miscellaneous R. 435, SurveyImpro Mary Valley R. 135, Firebreak R. 274, Firebreak R. 274, Firebreak R. 274, Miscellaneous North Coast R. 318, Cpt. Survey		 	··· ··· ··· ··· ··· ··· ···	··· ··· ·· ·· ·· ·· ··	··· ··· ··· ··· ···	··· ··· ··· ··· ··· ···	··· ··· ··· ··· ··· ···	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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APPENDIX	N.—continued.
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Expenditure Surveys-	—Fin	ancial	Year	1946	-1947.	-cont	inued.			
North Queensland— R. 185, Surveys Warwick—	••	• •	••	•••		• •	••	£ 2	8. 9	d. ₿
R. 263, Plots F.I.S. Miscellaneous	•••	•••	••	•••	. . 	•••	•••		$^{2}_{11}$	6 4
							_	£4,227	12	2
Tota	l Exp	enditure	ə	••	••	••		814,487	15	8

APPENDIX 0.

Distribution of Personnel, 30th June, 1947.

Salatied Officers Other Employees	•••	•••	•••	••	••	••	••	••	, . , .	·· 236 ·· 1,435
				÷						1,671

A. H. TUCKER, Government Printer, Brisbane.

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