
QUEENSLAND.

ANNUAL REPORT

OF THE

SUB-DEPARTMENT OF FORESTRY

FOR THE

YEAR 1947-48.

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A STATE FOREST HIGHWAY.

Road construction and maintenance are constantly necessary to make and keep forests accessible. In 1947/48 the sum of £158,177 was expended on road works.

Report of the Director of Forests for the Year ended 30th June, 1948.

INTRODUCTION.

The year under review saw a decided increase in silvicultural operations which is an indication of returning normality. However, it was not possible for the Department to attain the silvicultural objectives in any direction owing to the difficulty of securing sufficient manpower for the projected work.

It is pleasing to record that, despite difficulties, it was possible to plant an area of 3,576 acres during the year, which is an increase of 1,200 acres on the previous year and is close to the highest annual planting ever recorded by the Department. A vigorous programme of natural regeneration and improvement work was carried out in the hardwood and cypress pine forests, over 50,000 acres being treated during the year.

There is a serious national necessity for increase in the area of softwood plantations, if the needs of increasing industrialisation and population are to be met. Practically all industries require wood for their proper functioning and it is becoming increasingly difficult in Queensland to meet present-day needs.

During the year some 50,000,000 superficial feet of pine plantation thinnings were sold, the bulk being in long-term sales. This is an indication of the increasing importance that the young plantations are already assuming, but if ten times the volume were available it would be readily utilized. The great interest in trade circles created by these large sales demonstrated the need for the type of material being produced.

The total Crown mill log cut for the year was 204,000,000 superficial feet, which is a decrease of 16,000,000 superficial feet on the figure for 1946-47. However, the cut of the principal building timbers showed an increase, in that the hardwood cut increased from 59,000,000 in 1946-47 to 61,000,000 in 1947-48 and Cypress Pine from 12,000,000 in 1946-47 to 15,000,000 in 1947-48, both figures being all-time records.

The cut of natural-grown Hoop Pine for the year showed an appreciable drop from 94,000,000 in 1946-47 to 79,000,000 in 1947-48. There are several causes contributing to this decrease in pine production. Hoop Pine is rapidly disappearing. A number of former sources of supply have been completely cut out, and the remaining stands are more difficult of access, resulting in a reduced log output with a given labour and plant supply. In addition, the Railway strike, by preventing the movement of pine logs to the city sawmills which saw the bulk of the pine, decreased pine production for the year and the present limited capacity of the Railways to handle heavy freight is exercising a restriction on rate of logging. The weather, also, was against continued logging but this effect would be much less important than those already stated.

Hoop and Bunya Pine are woods of quality particularly suited to a number of special uses. There would be considerable wisdom in restricting the cut from our meagre remaining sources to a rate which would make provision for the special uses only. However, at the present time this would mean a decrease in production of Hoop Pine plywood and ease timber and would create a problem in supply that would be particularly difficult to surmount.

Final returns for the total mill log cut from Crown and private lands for 1947-48 are not yet available, but the figures for the first nine months ending March 31st, 1948, constitute a record for a similar period. Figures for the first nine months of each year of the last three years are as follows:—

1945-46	..	..	..	..	..	..	218,000,000
1946-47	..	..	..	..	..	..	264,000,000
1947-48	..	..	..	..	..	..	282,000,000

During the year particular efforts have been made to improve the standard of accommodation at various permanent Forestry camps. A standard type of barracks has been erected wherever material and labour has permitted and accommodation for 112 men has been thereby provided. This work is still being actively pursued and as building materials become more readily available it is hoped to accelerate construction appreciably.

The Department is still experiencing considerable difficulty in securing sufficient men to carry out the works which are programmed. However, towards the end of the year the position improved somewhat and there was a noticeable tendency for men to stay on the job. Previously there was a very rapid turnover in labour, the majority of men remaining only a short period. It seems clear, however, that the local labour available is insufficient for the fulfilment of our programme and consequently a request was made during the year for 250 Balts to assist in bringing essential softwood plantation work up to date. The first of these Balts are now on the job and are working very well.

For a number of years I have stressed the necessity for the chemical treatment of the miscellaneous Scrubwoods to render them immune to *Lyctus* attack and consequently suitable for use in permanent structures. It is pleasing to report that there are a number of treatment plants already erected in Queensland and several more in course of construction. It is to be hoped that this work proceeds rapidly as the Department sees too many examples of borer-infested timber in permanent structures.

Research work on the natural regeneration of the North Queensland rain forests has at last been actively commenced. The North Queensland rain forests represent an individual and complex silvicultural and utilisation problem because of the heavy stand of potentially valuable timber that cannot be utilised at present and because of the particularly good advance growth that occurs on many areas. Research work aims at formulating silvicultural treatment rules which are sufficiently simple to be carried out by casual employees. However, the wide variety of species encountered and the difficulty of recognising them will probably mean that only special skilled labour will be capable of treating this type of forest.

The acquisition of areas for permanent reservation as State Forests was actively continued during the year. There are substantial areas of land, which should economically be devoted to timber production as their major use, still awaiting acquisition. The policy of not resuming any area on which occupied residences were located has prevented the acquisition of many desirable areas. When the housing position has generally improved many of these areas should be secured for forestry purposes.

The effects of the recent establishment of several new Districts and new positions in Head Office are now being felt in Departmental work. The appointed officers have become conversant with their particular problems and much work which formerly could not be carried out can now be put in hand.

REFORESTATION.

In spite of shortage of skilled fallers and unusual rains of spring and early summer, which hampered burning off operations and necessitated the holding over of the planting of some felled areas, it was possible to establish by the end of the year 3,576 acres of new plantations (an increase of 1,200 acres above last year) but the total, when the winter plantings are complete, will have exceeded 4,000 acres. Though this is equal to the best pre-war figure, it is still well below total nursery capacity and what should be done in attaining a goal of 200,000 acres establishment.

Because of the difficulties associated with burning and clearing work, which delayed both planting and first year tendings, it was not possible to overtake very much of accumulated tendings and prunings. In part, on several areas, it was necessary to neglect later tendings to ensure attention to the essential first year tendings.

At the present rate of recruitment of local labour increased operations are impossible and application has been made for a number of displaced persons, the first batch of whom have arrived and are showing promise.

A noteworthy step of the year was the sale of a further 50,000,000 superficial feet of plantation thinnings from areas in the Mary Valley, the Brisbane Valley, at Glasshouse Mountains and in Northern Queensland, raising the total quantity under sale to almost 76,000,000 superficial feet. Plantation cut for the year amounted to 3,021,000 superficial feet.

In addition to the start made on the establishment of softwood plantations near Maryborough during the year, action was set in hand to initiate similar operations on an area north of Yeppoon and nursery construction had proceeded sufficiently by the end of the year to allow sowing to be undertaken in July. This is another proposal for the conversion of low grade coastal hardwood forest to softwood plantations in which *Pinus insularis* will occupy a place in routine planting for the first time in Queensland.

Natural regeneration treatment on the hardwood and cypress pine forests was maintained at last year's level of just over 50,000 acres, while a further 189 acres of the acquired hardwood land near Pomona was planted, chiefly with Flooded Gum.

The fire season was the least hazardous experienced for many years, and this enabled a general stepping-up of protection works.

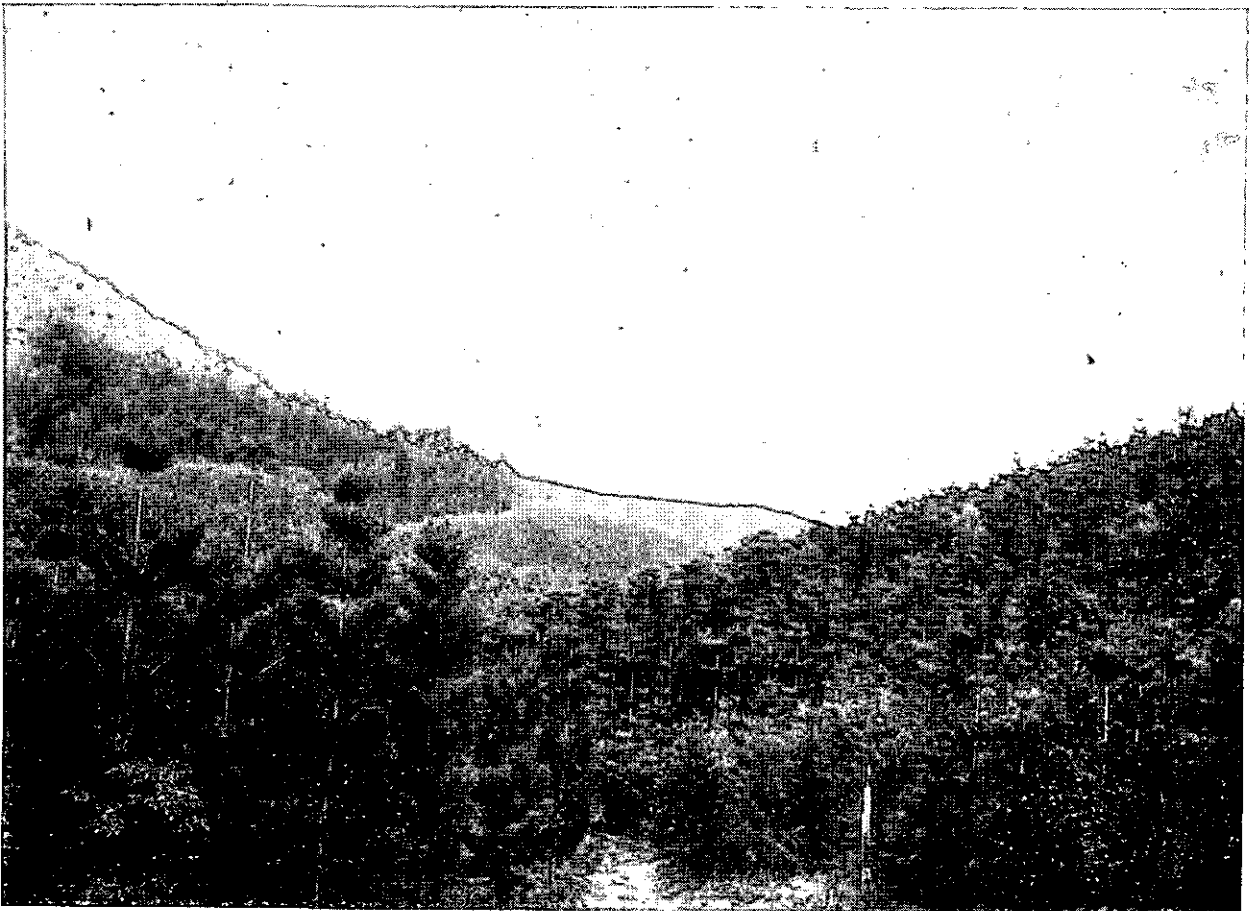
Forest inventory work continued on the cypress pine forests of the Dalby District, but it has not yet been possible to secure personnel to allow a start to be made on the coastal hardwood areas. Yield plot layout on plantation areas is very largely up to date so far as areas older than 10 years are concerned.

The land acquisition programme continued to the limit imposed by available staff.

Plantations.—Area planted during the financial year period amounted to 3,576 acres, comprised of —

	Acres.
Hoop Pine	2,531
Kauri Pine	133
Exotic pines	708
Hardwoods	202
Other species	2

The total area planted at 30th June, 1948 became 38,392 acres (details in Appendix I).



THE NEW LOOK IN FORESTS.

Plantations of Queensland's premier native softwood—Hoop Pine—Imbil District. To 30th June, 1948, over 20,000 acres of Hoop Pine plantation have been established.



YOUNG PLANTATIONS RETURN AN INTERIM DIVIDEND.

Thinnings from exotic plantations ready to go to the mill. First thinnings have netted up to £35 per acre. Over 75,000,000 super. feet of plantation thinnings are already under sale.

Weather for both summer and winter plantings was excellent, and survival is high, but because of hampered and sometimes poor burns, summer plantings were late in completion. The same factor was responsible for the very heavy first-year tendings, which had to be carried out at the expense of older areas. The total area tended was 13,140 acres.

Pruning operations covered 4,308 acres, as follows:—

	Acres.
First operation	1,938
Second operation	2,030
Third operation	340

The cut of plantation thinnings for the year of 3,021,000 superficial feet brought the total thinnings cut to date to 9,590,000 superficial feet.

Nurseries.—Twenty-six nurseries were in plant production at the close of the year. An additional unit was under construction on an area north of Yeppoon, and a further nursery for the Glasshouse Mountains area is to be constructed. Total nursery capacities will then exceed 6,000 acres per annum.

Total output for the year for all purposes exceeded 2,500,000 trees, while stocks amounting to 7,135,000 were held at the close of the year.

Supply of Trees to Public.—During 1947-48, the following plants were supplied to the public:—

To farmers (plots)	82,708
To school plots	7,125
To general purposes (windbreaks, ornamentals, &c.)	19,705
Total	109,538

Seed Collection.—The largest collection of hoop pine seed since 1942 was made in December. In all, 17,800 lbs. were collected, and though viability was not as high as in some previous collections, this crop should yield almost 12,000 acres of plantations. Stocks of *Pinus taeda* and *Pinus caribaea* seed called for small collection only. Eighteen lbs. of the former and twenty-one lbs. of the latter were collected from select seed trees.

Natural Forests.—Shortage of labour has allowed staffing on these areas to be maintained at only little in excess of what is required for minimum protection purposes, all additional labour being concentrated as far as possible on plantation areas.

As a result, treatment work was very similar to last year's figure.

Total area treated for the year was 53,655 acres. Briefly summarised (see Appendix J for details) this comprised:—

	First Treatment.	Other than First Treatment.	Total.
	Acres.	Acres.	Acres.
Hardwood	16,226	16,017	32,243
Cypress Pine	13,564	7,793	21,357
Other	55	..	55
Totals	29,845	23,810	53,655

Total acreage given at least one treatment now becomes 485,153 acres.

The unusual rains referred to previously have been responsible for a wealth of regeneration in some areas. Particularly is this prominent in the Spotted Gum stands near Monto.

Research.—In March, 1948, a number of graduates resumed with the Department after the completion of their training at the Australian Forestry School. This enabled an officer to be stationed at Dalby and one at Atherton to engage in silvicultural research.

In the Dalby district work on the silvicultural requirements of cypress pine and western hardwoods has been resumed. In North Queensland the problems associated with the natural regeneration of the rain forests of that region are being attacked and preliminary work in collecting data for determination of areas which should be converted to plantations has begun. This has shown the marked superiority of hoop pine over kauri and maple in respect of total volume production in existing plantations in North Queensland.

In the Beerwah district the oldest plots covering controlled pollination and single parent studies with *Pinus taeda* and *Pinus caribaea* have reached the stage where a reasonable assessment of form can be made. The work is still in progress, but the plots covered to date indicate that the Department's policy of collecting seed from stems outstanding in form and vigour should be continued. Stock from open pollinated good parent trees of *Pinus taeda* and *Pinus caribaea* has yielded approximately twice the percentage of stems of good form as compared with stock raised from seed collected from stems selected for carry up pruning. This percentage is further increased with stock from controlled pollination, which gives up to four times as many stems of good form as similar stock resulting from general collection. If confirmation of these results is secured in the routine field plantings now under way, widened initial spacing of plants will be adopted.

This year plots of the Honduras strain of *Pinus caribaea* were established at Beerwah and at Tuan Creek. In the nursery this strain exhibited characters markedly different from normal *Pinus caribaea*, and appears to be more prone to losses when planted open root.

In the Mary Valley, free growth and thinning experiments with hoop pine are at last showing response more in line with those obtained at an earlier stage in the drier Brisbane Valley with the same species. For example, the Free Growth experiment planted in December, 1938, and involving 10 plots covering, in pairs, stockings of 600, 350, 250, 160 and 100 per acre, gave the following average G.B.H. increments for comparable selected stems for the year 1946-47:—

Stocking per Acre.	600	350	250	160	100
G.B.H. Increment 1946-47	Inches. ·78	Inches. 1·15	Inches. 1·43	Inches. 1·70	Inches. 1·93

Under the conditions of the experiment by age 6½ years 600 per acre had barely entered the suppression zone, but by 10½ years all spacings to 140 per acre were in the suppression zone. In the following table numbers per acre are shown against the age at which they just enter the suppression zone:—

Age in Years.	6½	7½	8½	9½	10½
Numbers just entering Suppression Zone	600	260	200	180	140

In the Beerwah district the results yielded by Experiment 69 continue to support the results of Experiment 63; the earlier Free Growth experiment with *Pinus taeda*. At age 4 years Experiment 63, which was in a stand planted 8 feet by 8 feet, showed 600 stems per acre still free growing, whilst at the same age Experiment 69 showed 800 per acre free growing.

The table below shows the age at which the various numbers per acre were no longer free growing for each experiment:—

Age in Years.	5	6	7	8
Number no longer free growing—Experiment 63	600	450	250	160
Experiment 69	500	350	250	160

With *Pinus caribaea* Free Growth experiment 70 has given the following figures for stockings of 840, 450, 320, 180 and 80 per acre:—

Age in Years.	5	6	7	8	9
Number no longer free growing	840	450	320	320	180

Based on the results of thinning experiments and form observations, the planting spacing for *Pinus patula* at Pechey was altered from 7 feet by 7 feet to 8 feet by 8 feet. With 7 feet by 7 feet an unmerchantable first thinning would be a necessity.

Protection.—As a result of very favourable weather conditions, the fire season was one of very low hazard and not one major outbreak was reported.

This enabled staff to complete a greater amount of firebreak work than last year.

Conditions, however, precluded satisfactory test of the fire-fighting radio equipment under severe conditions.

Summarised, the chief firebreak works carried out during the year were:—

(1.) <i>Cleared Breaks</i> (western forests)—		Miles.
Firebreak construction—		
Cutting and grubbing		103·2
Stacking and burning		37·5
Cutting auxiliary roads		14·5
Firebreak improvement—		
Grubbing roads		·8
Grading		23·7
Green strips		123·8
Firebreak maintenance—		
Suckering and burning		511·0
Grading		840·5
(2.) <i>Green Breaks</i> (costal hardwood areas)—		
Firebreak construction—		
Felling dangerous trees—		
Stacking and burning		142·3
Firebreak improvement		136·6
Firebreak maintenance—		
Chipping and/or ploughing		1,458·2
Burning		657·6
Roads		494·9
(3.) <i>Cleared Breaks</i> (plantations)—		
Firebreak construction—		
Temporary breaks for scrub burning		9·1
Clearing		96·2
Rotary hoe		9·2
Grading		4·3
Firebreak maintenance—		
Chipping		87·0
Ploughing		23·6
Burning		85·1
Rotary hoe		111·8
Grading		239·5

MAKING GOOD TREES GROW FASTER.



Fourteen-year-old plantation of Hoop Pine marked for first thinning.



The plantation thinned, giving the best trees room to grow faster. The trees on the ground will be removed and sawn into useful timber.

Capital Improvements.—Effort was made to have all capital improvements restored to a reasonable state of maintenance, but shortages of materials and labour still left a large amount of this work undone.

Construction was concentrated largely on improved accommodation for employees who camp on the job.

The major items of construction for the year were:—

Item.	Completed.	Partially Completed.
Barracks	19	12
Bathrooms	76	2
Improved galleys	127	..
Tool sheds	8	..
Garage—storerooms	5	..
Offices	2	1
Storerooms	5	..
Lookout cabin	1	..
Well	1	..
Dams	5	1
Nurseries .. .. .	..	1
Phone lines	16 miles	..

Additionally, work was carried out on raising the standard of substandard cottages wherever this was justified.

Expenditure and Labour.—See Appendix H for details.

Expenditure on reforestation works totalled £510,370 or £107, 619 more than the previous highest expenditure made last year.

The major headings of the year's expenditure are:—

	£
Plantations	84,457
Natural regeneration	25,583
Nursery working expenses	14,478
Protection (including firefighting)	95,285
Research	4,335
Capital improvements	44,125
Surveys	5,922
Wet time, holidays, leave	56,235
Tools, tents, cartage, supervision	136,850
Workers' compensation	9,381
Pay roll tax	9,853
Miscellaneous	23,866
	510,370

Expenditure on land acquisitions was £21,850.

Wages staff engaged on reforestation works increased from 1,180 at the beginning of the year to 1,316 at 30th June, 1948.

This figure, though above the highest pre-war figure, is still well below what is necessary to the planned operation, while the increase for the year was insufficient to take up the loss of man hours occasioned by the 40-hour week.

Acquisition of Land for Forestry Purposes.—During the year 1947-48 the Department continued its programme of acquisition of formerly alienated forest land to add to Queensland's permanent forest estate.

In the year just closed 48 properties covering an area of 28,613 acres were purchased at a cost of £18,286.

During the past five years 163 properties have been purchased at a cost of £62,956, the total area acquired being 94,213 acres. Over the same period of years 39 properties have been resumed covering 49,252 acres. Of these, compensation amounting to £7,673 has been finalised on 24 properties.

In several cases lessees of Grazing tenures have consented to surrender of their areas for Forest Reservation and subsequent granting of Special Leases under Forestry conditions.

In September, 1947, Mr. Reginald Ford of Southport generously donated to the Department about 7½ acres of his property Portion 108, Parish of Numinbah, for National Park purposes. The Department here places on record this generous gesture to the people of Queensland.

RURAL FIRES.

"The Rural Fires Act of 1927" remained in force during the year, the Rural Fires Board being comprised of the members of the Forestry Board, with the Secretary of the Forestry Department as Secretary.

The new Act, "The Rural Fires Act of 1946," has not yet been gazetted into force, but it is anticipated this will be done in the coming year, and an organisation set up to administer it.

The year just closed was a particularly good one from the bush fire viewpoint, very few fires being reported and no great damage being done.

Summarised below are the reports of outbreaks received.

Magnitude of Fires.—

½ Acre or Less.	½ Acre to 10 Acres.	Over 10 Acres and under 100 Acres.	100 Acres and Over.
4	13	9	15

Causes.—

Lightning.	Camp Fires.	Smokers.	Debris Burning.	Railways.	Deliberate Burning.	Miscellaneous.	Unknown.
1	1	—	8	2	11	—	18

Prosecutions.—Nil.

One man was called on to pay £1 13s. 5d., being cost of patrol to this Department.

FOREST SURVEYS.

Eleven fully equipped survey camps operated throughout the financial year.

Total expenditure for survey work amounted to £16,876 12s. 2d. of which £10,954 19s. 6d. was chargeable against Harvesting and Marketing projects, and the balance, £5,921 12s. 8d. against Reforestation projects.

As a result, 12,776 acres were dealt with by intensive contour and assessment survey, 31,511 acres were assessed, 108,002 acres were subjected to firebreak, compartment or soil survey, and 25,000 acres were closely inspected.

In addition, 910 plots were dealt with by Forest Inventory Survey (*vide* appendices to this report).

Miscellaneous district surveys, mainly concerned with planting and repurchase projects, were carried out as required. Some of the camps, especially in North Queensland, operated under very arduous and difficult conditions.

Summary of mileage completed is given hereunder:—

Compass and chain	603	75
Theodolite and chain	18	67
Strip survey	787	76
Old boundaries, elevations, &c.	89	62

Atherton District.—Three camps operated. One was engaged on the Kirrama Forest (State Forest Reserves 350 Niagara and 344 Kirrama). Total area covered amounted to 8,646 acres, whilst 29½ million feet of timber were estimated.

The second camp worked on State Forest Reserve 353 Ongera from the constructed end of the Maalan-Suttie's Gap Road.

From January until early March the camp estimated timbers on Woodleigh Holding.

From 2nd March until 5th May parts of R.99 and R.41 Western and Herberton were surveyed to determine suitable forest reservation boundaries. On completion of this work camp returned to R.353 Ongera, where it is at present located and operating.

The third camp worked for the greater part of the year on Class 2 survey on Timber Reserve 30 Riflemead on the tributaries of the Mary River in the vicinity of Mt. Lewis in difficult country. This camp transferred on 17th May to its present site, near Black Mountain (R.315 Dulanban).



THE WEST HAS VALUABLE FORESTS.

The Crown Cypress Pine forests of the West supplied the record quantity of nearly 15,000,000 super. feet to help provide Queensland's building needs. 53,655 acres of native forests were given regeneration treatment in 1947/48 to make a total of 485,153 acres.



A NEW FOREST BEING MADE.

Planting of Hoop Pine—Yarraman District. Plantations established at 30th June, 1948, totalled 38,392 acres.

Details of mileage hereunder:—

Reserve Number.	Parish.	Compass and Chain.		Strip Survey.		Pack Tracks. Old Boundaries.	
		Miles.	Chains.	Miles.	Chains.	Miles.	Chains.
350	Niagara	3	65	41	41	19	31
344	Kirrama			25	7	8	3
353	Ongera	16	55	28	53	1	47
99	Western	13	52				
41	Herberton	3	29				
Woodleigh ..	Woolmunda			25	14	20	8
30	Riflemead	17	0	39	17	11	65
6, 90	Garioch, Salisbury, Mowbray					20	0
315	Dulanban	11	66	3	58		
Pors. 130, 191	Alexandra	3	6				
Por. 2	Russell	1	0				40
185	Danbulla		76				
343	Glenbora		32				

Maryborough District.—Soil survey was continued throughout the financial year on State Forest Reserve 915, Parishes of Poona, Bidwell and Tahiti, an area of approximately 9,420 acres being covered, whilst a number of experimental plots were established.

During the first six months and until January 21st, when camp was transferred to the Gympie district, Forest Inventory Surveys on plantation plots were carried out on R.220 Kilkivan, R.355 Kilkivan and R.298 Gallangowan.

A Class 2 Survey is also under way over R.278 Hercules, but to date only reconnaissance work has been attempted. Other Class 1 work includes the Proston areas for sleeper blocks and possible reservations near Gin Gin. Miscellaneous district surveys are shown below.

Details of work have been set out hereunder:—

Reserve.	Parish.	Area.	Compass and Chain.		Strip Survey.	
			Miles.	Chains.	Miles.	Chains.
915	Poona, Bidwell, Tahiti	9,420	80	62	117	59
220	Kilkivan	140	3	0		
915	Poona	80	2	40		
298	Gallangowan	230	5	10		
97, 99	Manumbar	100				
427	Manumbar	Road		50		
138	Manumbar	Road		45		
221	Kilkivan	Road		37		
V.C.L.	Gregory, Bingera	100	2	0		

Rockhampton District.—Early in April a soil survey was started on R.20, Maryvale, operations being confined to granitic soils west of Stony Creek and north of portion 36.

At the end of the report period 1,766 acres had been covered, involving 12 miles 70 chains of compass and chain traverse, 5 miles 70 chains of old boundary location and 29 miles 20 chains of strip survey.

Gympie District.—Generally speaking, the main district camp operated in the Gympie section until the Christmas closure, proceeding to the Mary Valley area on 12th January.

This camp is now being divided and separate parties will be allocated to district divisions.

On March 30th a camp arrived from the Brisbane district to carry out a Class 3 survey of an area of vacant Crown Land in the parish of Conondale. At the end of the report period two logging areas had been assessed and contoured, having an area of 2,000 acres.

Details of work effected are set out hereunder:—

Reserve and Parish.	Area.	Theodolite.		Compass and Chain.		Strip Survey.		Elevations.	
		Miles.	Chains.	Miles.	Chains.	Miles.	Chains.	Miles.	Chains.
124 Glastonbury				14	57	3	47		
392 Como	500	6	67	24	65				
256 Imbil	250		43	13	62				
135 Brooloo		11	37	29	60				
135 Cambroon				2	57				
435 Kandanga				5	76				
Por. 48 King	481			2	40	5	43		
Por. 58 Traveston	91			1	52	1	11		
Por. 153 Tuchekeoi	96					1	40		
Por. 167v Noosa	364			2	50	4	44		
Por. 24v etc., Traveston	314					4	31		
Por. 990 Noosa	206					2	78		
Pors. 72, 295 Tuchekeoi	89			1	10	1	42		
R. 274 Cambroon				2	18				
Por. 40 Tewantin	290			1	20	3	26		
Totals	2,681	18	67	103	7	28	42		
V.C.L. Conondale	2,000			4	23	26	47	2	38

A third camp arrived at Mary's Creek on 17th March with instructions to carry out Forest Inventory Survey of established pine plantations throughout the district.—

Summary of work performed is set out hereunder:—

Reserve and Parish.	Miles	Chains.	Plots Established
124 Glastonbury	9	12	73
242 Widgee	5	73	46
392 Como	4	67	40
135 Brooloo	Re-measure		120

Brisbane District.—Commencing on 21st July a new camp was formed and logging area boundaries were run and marked on State Forest Reserves 274 and 434 Conondale (near Jimna).

In this subdivision 13,700 acres were dealt with.

Camp was then shifted to R.370 Durundur and Kilcoy on 9th September, Class 3 survey being carried out.

Four logging areas were assessed and contoured, having an area of 3,627 acres, whilst external boundaries were run on seven others (area 7,149 acres).

On 23rd February camp transferred to R.809 Samsonvale, where one logging area was completed by Class 3 survey, the only other work done being a height control traverse around Portion 204.

On the 30th March camp was shifted to the Mary Valley district.

Details of mileage on each reserve are as follow:—

Reserve and Parish.	Logging Areas.	Compass and Chain.		Strip Survey.	
		Miles.	Chains.	Miles.	Chains.
274 Conondale	Buffalo	3	17	..	..
274 Conondale	Sunday	4	61	..	..
274 Conondale	Handy	3	36	..	..
274 Conondale	Six Mile	1	48	..	..
434 Conondale	Jimna	1	73	..	..
434 Conondale	Rollman	3	70	..	..
434 Conondale	Yabba	2	3	..	..
370 Durundur		33	17	33	15
809 Samsonvale			77	10	25

A small camp, permanently located at Beerwah, effected a number of miscellaneous surveys, particulars of which are shown in Appendix K.

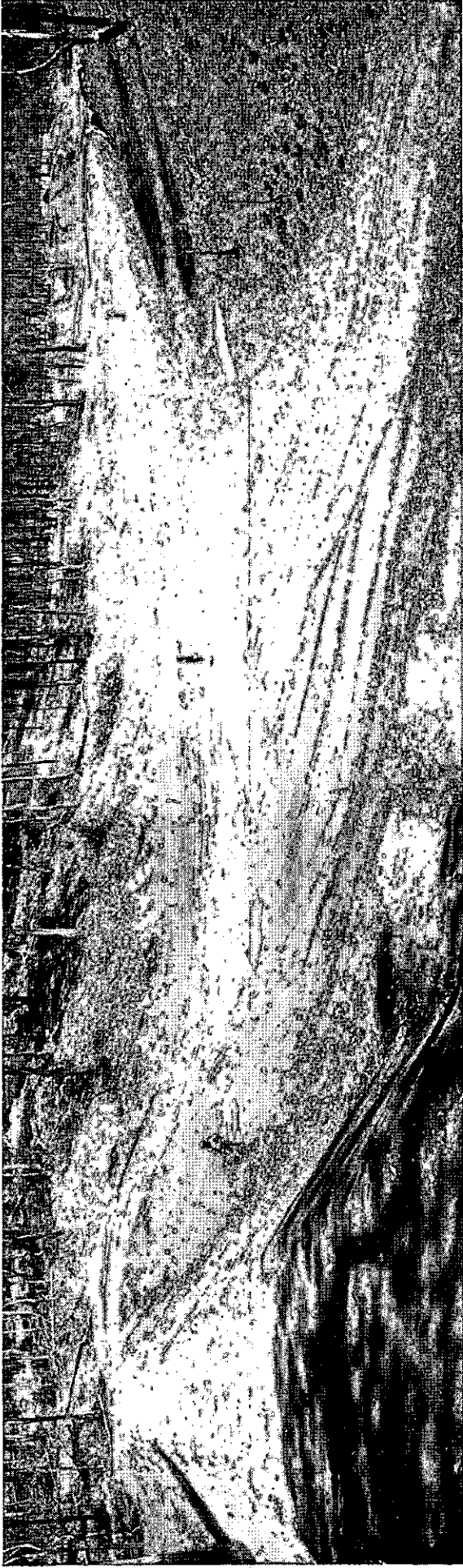
Brisbane Valley District.—District requirements were met by two small camps which operated throughout the year. Details are shown in Appendix K.

Dalby District.—Two camps operated in this district, one on compartment and Forest Inventory Survey south of Barakula on the Hookwood, Wongongera and Brownlie forests, whilst the second camp, after completing three logging areas on R.16 Ballon, transferred on 28th October to the Yuleba forests, where Forest Inventory Survey is still proceeding.

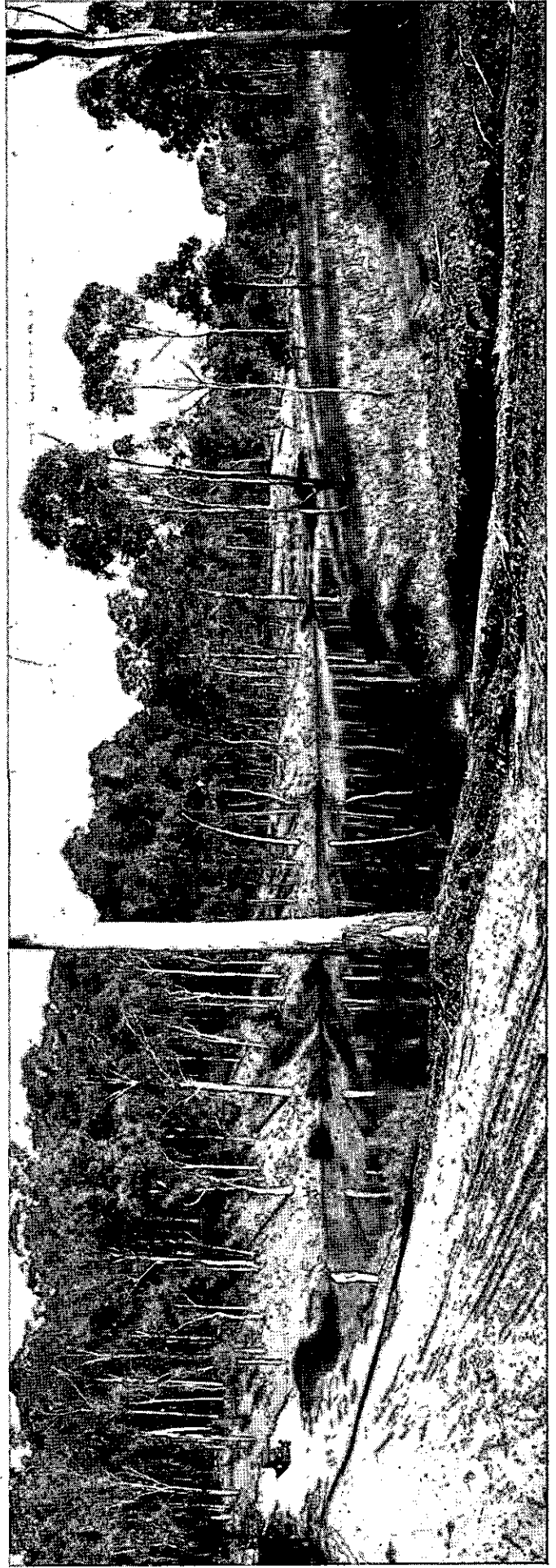
Details of work performed are set out hereunder:—

Reserve.	Area.	Compass and Chain.		Strip Survey.		Plots Established.	Plots Recounted.
		Miles.	Chains.	Miles.	Chains.		
R. 14 Hookwood and Wongongera ..	34,600	47	75	72	59	158	..
R. 47 Wongongera	20,166	37	75	60	65	123	..
R. 86 Brownlie	33,850	23	9	12	30	..	..
R. 16 Ballon	14,000	..	..	80	73	112	119
R. 78 Yuleba	12,530	..	..	37	54	75	..
R. 328 Yuleba	2,629	..	..	35	56	..	..
				6	57	17	..
				6	57	..	..
R. 60 Tchanning	14,054	..	..	10	0	80	..
R. 58 Tchanning	12,147	..	..	55	27	67	..

WATER SUPPLY ON A STATE FOREST.



A dam site.



A dam site—better.

DAM, ROCKY CREEK, YARRAMAN STATE FOREST—IN COURSE OF CONSTRUCTION, AND FILLED. Water supplies are invaluable adjuncts to State forests for fire protection, improving grazing, and administration. Five dams were built in 1947/48.

NATIONAL PARKS.

Shortage of manpower prevented the fulfilment of the National Parks programme for 1947-48. Although work was commenced on several new Parks, and a start was made to provide improved access in highly scenic areas in the Mackay district, the expansion hoped for, both here and in North Queensland was not possible. Out of £50,850 voted for National Parks work not more than £24,292 could be expended.

In these circumstances, most attention had to be given to maintenance of existing works. Because of lack of attention during war years this work in some cases virtually became reconstruction.

However, a National Park Ranger was appointed to the Mackay district, part of which had formerly been in South Queensland district and part in North Queensland.

The new Parks on which work was commenced were Eungella (Broken River) and South Molle Island (Mackay District), Burleigh Heads (South Coast), Noosa (Gympie) and Bell Bird Reserve (Mt. Nebo).

At Tamborine an access track was constructed to the beautiful Cedar Creek Falls and Gorge on the State Forest.

Material has been assembled in readiness for a start on Long Island National Park (Mackay District).

Notes on the work carried out are as follows:—

South Queensland.—Work comprised construction of formed and graded walking tracks; eradication of lantana and noxious weeds; maintenance and improvement to existing tracks; maintenance of roads through National Parks; provision of road access to National Parks; provision of fireplaces and facilities; and location of extensions of existing track systems.

The parks on which work was carried out were Lamington, Tamborine, Springbrook (Warrie and Gwongorella), Cunningham's Gap, Bunya Mountains, Mt. Glorious, Mt. Nebo (Scenic Reserve), Burleigh Heads, and Noosa.

About 9½ miles of new tracks were constructed, making a total of over 136 miles at the end of the year.

Burleigh Heads National Park presents something of a problem. A striking basaltic headland, commanding wide views over ocean, beach, river valley and mountain wall, farm, and forest, it was formerly covered with rain-forest and was a magnificent scenic asset. It was reserved for "recreation" but its former custodians neglected it, and fire and axe had all but destroyed the natural scenic fern-clad forest, and left in its place impenetrable masses of the introduced lantana. Attempts had been made to provide tracks, but these were too steep to be of general public utility. The area was proclaimed a National Park in April, 1947, and work was put in hand in November, 1947. The Department's first tasks are to make easy graded tracks through the remnant scenic areas and, by removal of the smothering lantana and protection against fire, to permit the regrowth of the jungle species. Already some signs of restoration are seen and, while the process will be slow, there is hope that the little park will once again be something to delight the visitor. Here, incidentally, the observant visitor may see on favourable occasions some surviving Koalas in their native haunts.

With the co-operation of Local Authorities, short access roads were constructed into Noosa and Gwongorella National Parks. These improve vehicular access very considerably.

Mackay District.—It has been unfortunate that other duties have trenched very considerably on the National Park Ranger's time, but a good start has been made. Over a mile of formed and graded track has been constructed along the Broken River on Eungella National Park, while at South Molle Island 21 chains have been completed. Picnic-camp-ground was improved at Broken River.

North Queensland.—Work has been carried out at—

1. Green Island, where a new protective groyne was built for the Department by the Cairns Harbour Board, to which body and its engineer and staff this Department's thanks are expressed;
2. Lake Barrine, where 310 chains of graded track were reconditioned and noxious plants removed;
3. Lake Eacham, reconstruction of graded tracks, additions to camp-picnic-ground facilities, general maintenance of assets, and eradication of noxious plants;
4. Crater National Park, 52 chains of track reconditioned; 160 chains of new track constructed.

General.—The number of men on National Park work at the end of the year, including three National Park Rangers, was 74. All National Park Rangers reported very favourably on the service being rendered by the men under their control.

HARVESTING AND MARKETING.

General.—During the year the log deliveries from Crown forests of the principal building timbers—viz., Hardwoods and Cypress Pine—were the highest on record.

For Hardwoods the figure was 61,290,000 superficial feet as against the previous highest—59,260,000 superficial feet (attained in 1946-47)—and for Cypress Pine 14,850,000 as against 12,375,000 (1946-47).

These gratifying figures were achieved despite a number of difficulties, amongst which may be mentioned—

a two months' failure by North Queensland logging contractors to carry out their contracts;

limitations imposed by railway rolling-stock available;

above-average rainfall hampering operations;

a prolonged railway strike.

The Department, therefore, was unable to attain the figure recorded in the previous year of log deliveries of all species from Crown forests. Yet, over 204,000,000 superficial feet of Crown logs were cut, this being short of the 1946-47 figure by 16,000,000 superficial feet but nearly 15,000,000 superficial feet in excess of the cut in 1945-46.

Hoop, Bunya, and Kauri log deliveries were lower than in the previous year. Cabinet timbers also were not harvested to the same extent as in past years, but the deficiency was replaced by the increased deliveries of the better class miscellaneous timbers which to-day are being successfully used for many purposes previously limited to the recognised high-class cabinet species.

During the year Cypress Pine log depot prices were co-ordinated with increased sawn timber prices fixed to bring in a predetermined zone of supply to the Brisbane market.

Many miscellaneous timbers are replacing Hoop and Kauri pine in the plywood industry, and it is expected these timbers will be used more extensively in the future, especially so in North Queensland where heavy stands are available. The boric acid treatment of sawn and ply timber advanced several of our miscellaneous softwoods to a higher standard of utilisation, whilst the all-Australian shortage of timber created markets for "shorts and narrows" which previously were not saleable.

Weather conditions were not favourable to logging in North and South Queensland, as the wet season extended well beyond its usual period and the spring season, generally fine, produced heavy rains. In the Cypress Pine belts, however, logging was not affected unduly by weather conditions.

During the railway strike the Department arranged log deliveries to local mills to the greatest extent possible, so as to maintain loggers in operation. Despite this, it was necessary to suspend deliveries temporarily in some cases.

The failure of logging contractors in North Queensland to continue with contracts for some two months was the subject of several discussions between their representatives and Departmental officers. Ultimately, they agreed to resume on the understanding that their claims would be enquired into. The Government appointed Mr. J. D. McLean, S.M., to hold the enquiry which was proceeding at the end of the year.

Railway supplies for sleepers and girders showed increases over last year's figures and close collaboration with Railway Department officials this year has resulted in the adoption of a plan to rectify the disorganisation that was caused by the effects of war.

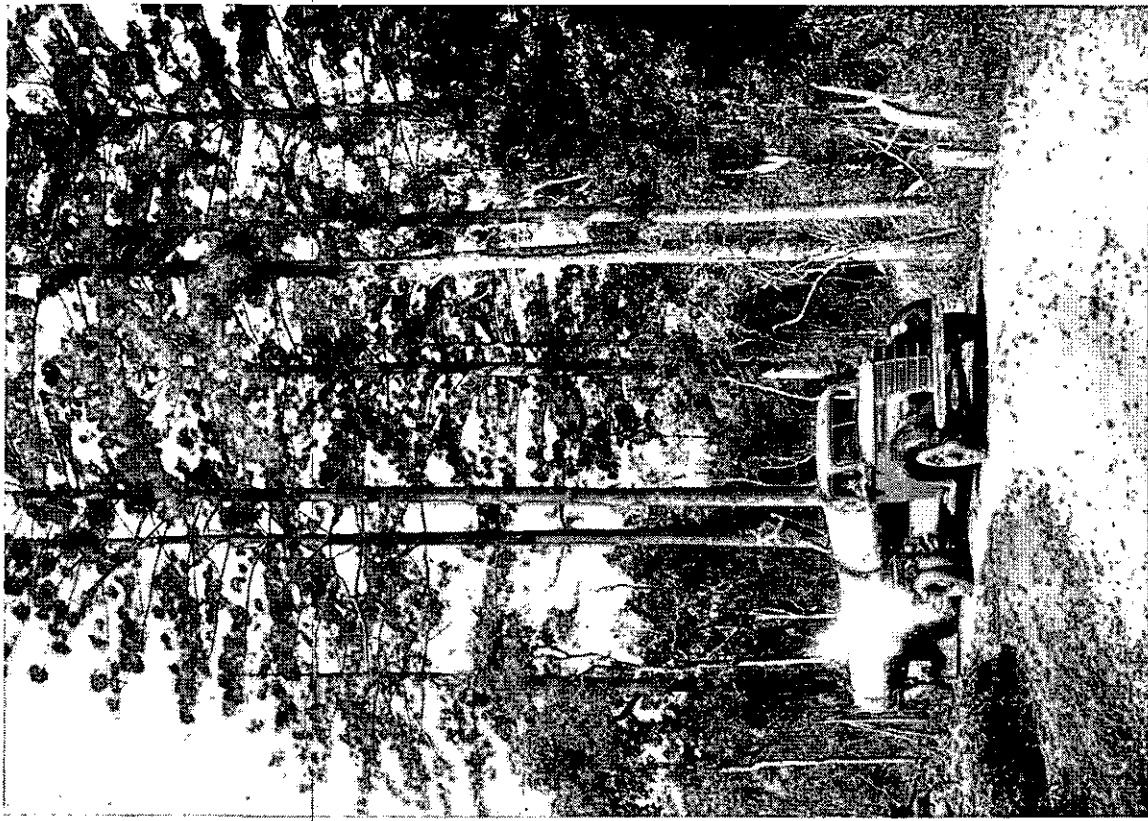
Sawmills in North Queensland again absorbed all available logs cut in the northern area except for a few walnut logs sent to southern firms for veneer purposes.

CROWN MILL LOG CUT.

Species.	1941-42.	1946-47.	1947-48.
	Super. Feet.	Super. Feet.	Super. Feet.
Hoop and Bunya Pine	127,390,000	94,119,000	78,811,000
Kauri Pine	12,010,000	8,957,000	5,418,000
Cypress Pine	7,823,000	12,375,000	14,851,000
Hardwoods	48,528,000	59,257,000	61,293,000
Cabinet-woods	26,771,000	22,927,000	15,956,000
Miscellaneous	9,685,000	20,618,000	24,735,000
Plantation timbers	187,000	2,005,000	3,021,000
Total	232,394,000	220,258,000	204,085,000

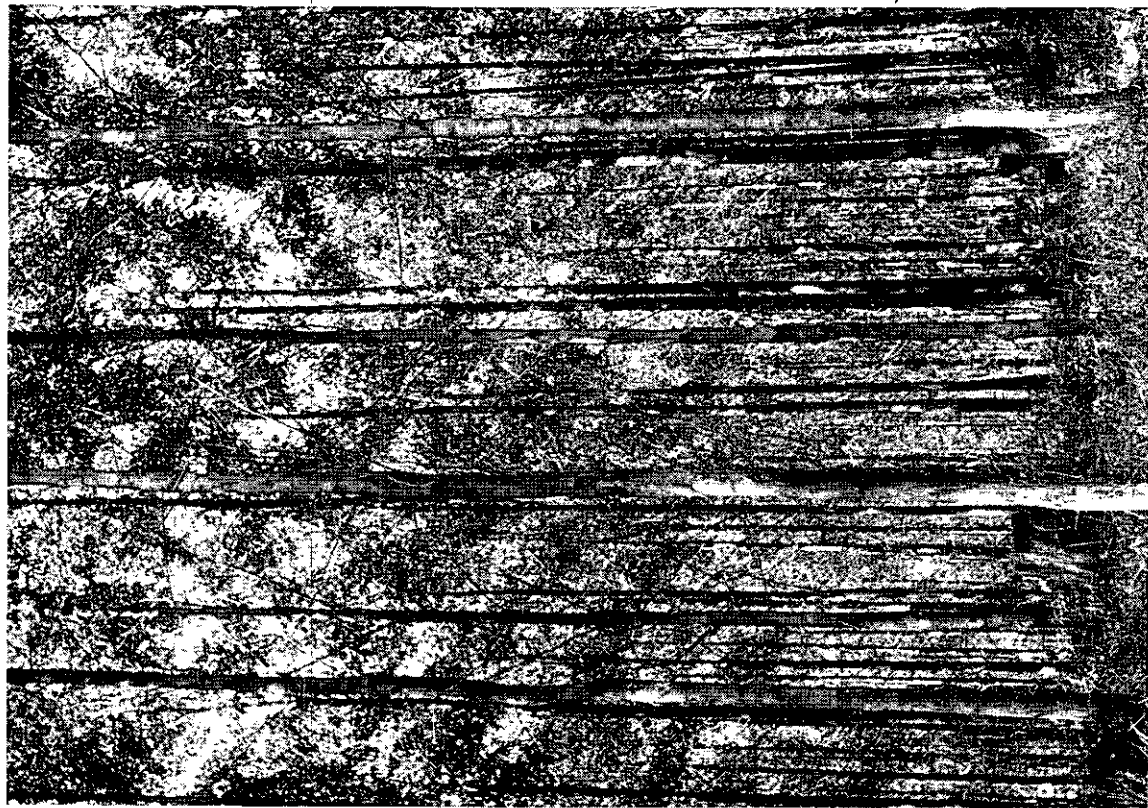
Returns from sawmills of total logs cut in 1947-48 are not yet available so that comparison of the cut from Crown and private lands for this year is not yet possible.

Mill Logs.—Production of mill logs cut from Crown forests showed a slight decrease from the average cut over the past ten years, which was 205,000,000 superficial feet.



TIMBER FOR PUBLIC NEEDS.

Activity in logging resulted in marketing of over 204,000,000 superficial feet of milling timber in 1947/48. A scene in the Boyne Valley.



YOUNG FOREST STALWARTS.

These 7½ year old Red Stringybarks on Woonndum State Forest (Gympie District) will help to provide Queensland's future timber wants. £25,583 were spent on natural regeneration works in 1947/48.

The following table gives the annual quantities delivered:—

	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
1947-48	204,000,000

The Timber Business, 1947-48.

CROWN SALES.

(a) Mill Logs—	1946-47.	1947-48.
Hoop and Bunya Pine ..	94,119,000 super. feet	78,811,000 super. feet
Forest Hardwoods ..	51,029,000 super. feet	52,148,000 super. feet
Scrub Hardwoods ..	8,228,000 super. feet	9,145,000 super. feet
Cypress Pine	12,375,000 super. feet	14,851,000 super. feet
Kauri Pine	8,957,000 super. feet	5,418,000 super. feet
Cabinet Woods	22,927,000 super. feet	15,956,000 super. feet
Miscellaneous Species ..	20,618,000 super. feet	24,735,000 super. feet
Plantation Timbers ..	2,005,000 super. feet	3,021,000 super. feet
Total Crown Mill Logs ..	220,258,000 super. feet	204,085,000 super. feet
(b) Construction Timbers—		
Headstocks, Transoms, Crossings	814,000 super. feet	515,000 super. feet
Sleepers	398,000 pieces	442,000 pieces
Girders, Corbels, Piles, Sills	120,000 lineal feet	149,000 lineal feet
Poles	405,000 lineal feet	370,000 lineal feet
House Blocks	339,000 lineal feet	265,000 lineal feet
Mining Timbers	523,000 lineal feet	573,000 lineal feet
Mining Timbers	153,000 pieces	151,000 pieces
Gross Receipts from Timber Sales	£988,910	£1,006,797
Net Revenue	£402,340	£417,453

The following figures show a comparison of quantities of the various species of log timbers cut from Crown lands during the past four years:—

Year.	Hoop and Bunya Pine.	Kauri Pine.	Cypress Pine.	Forest Hardwoods.	Scrub Hardwoods.	Cabinet-woods.	Miscellaneous.
	(1,000 superficial feet.)						
1944-45	104,855	7,029	8,476	38,013	6,142	12,992	14,281
1945-46	93,703	7,798	7,532	42,393	5,643	16,315	15,258
1946-47	94,119	8,957	12,375	51,029	8,228	22,927	20,618
1947-48	78,811	5,418	14,851	52,148	9,145	15,956	24,735

Logging.—During 1947-48, the following quantities were hauled by, and payments made to, contractors to the Department:—

Class.	Quantity.	Expenditure.
	Super. feet.	£
South Queensland—		
Hoop and Bunya Pine	54,084,153	
Forest hardwoods	1,649,413	
Scrub hardwoods	593,169	
Miscellaneous	2,027,192	
Red Cedar	53,875	
	58,407,802	241,603
North Queensland—		
Kauri Pine	4,153,874	
Cabinet-woods	12,288,101	
Forest hardwoods	2,655,050	
Scrub hardwoods	4,199,217	
Miscellaneous	11,856,184	
	35,152,426	165,068
Totals	93,560,228	£406,671

The Plywood Industry.—Returns from plywood and veneer mills regarding quantities of logs treated during the year 1947-48 are not yet available.

The Plywood and Veneer Marketing Board reports as follows regarding plywood deliveries:—

“Deliveries of plywood for the year show a total decrease of 3,693,180 superficial feet from the previous year, there having been a decrease of 826,328 superficial feet from the Southern Board and 2,866,852 superficial feet less having been delivered from the Northern Board. It is safe to say that these decreases are due to seasonal conditions and to the continuing diminution of log supply.

“Deliveries of plywood through the Southern Board were 47,192,397 superficial feet, valued at £519,116, and through the Northern Board 23,616,601 superficial feet, valued at £259,783, giving a combined total of 70,808,998 superficial feet, valued at £778,899.

The distribution was as follows:—

	Southern Board.	Northern Board.	Total.
Queensland	20,990,382	13,728,844	34,719,226
Interstate	26,202,015	9,887,757	36,089,772
	47,192,397	23,616,601	70,808,998

“In the 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 three increases in the Basic Wage were made as follows:—1s. as from 27th October, 1947; 2s. as from 2nd February, 1948; and 3s. as from 26th April, 1948.

Adjustment of rates due to the 40-hour week was made as from 1st January, 1948.

These increases have affected the prices of hewn timbers as set out in the table hereunder—

Class of Timber.	Prices as at—				
	1-7-47.	27-10-47.	1-1-48.	2-2-48.	26-4-48.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Sleepers—squared 7 feet	30 1 9	30 5 0	33 4 0	33 11 6	34 2 9
Sleepers—hogback 7 feet	24 12 10	24 15 5	27 3 5	27 9 4	27 18 2
Crossing timbers	1 12 6	1 12 6	1 15 6	1 15 6	1 15 6
Transoms	1 17 6	1 17 6	2 1 0	2 1 0	2 1 0
Headstocks	1 16 6	1 16 6	1 19 10	1 19 10	1 19 10

Timber Felling and Timber Getting Award—State.—During the twelve months under review, the basic wage was varied three times as follows:—

On 27th October, 1947	from £5 8s. 0d. to £5 9s. 0d.
On 2nd February, 1948	from £5 9s. 0d. to £5 11s. 0d.
On 26th April, 1948	from £5 11s. 0d. to £5 14s. 0d.

Rates payable to timber-fallers on the various areas are fixed by the Department, based on the Timber Felling and Timber Getting Award—State.

Logging Roads.—Expenditure on Logging Roads, involving new construction to provide access to additional areas and maintenance of existing roads amounted to £47,587 made up as follows:—

Revenue	..	..	..	..	..	..	..	..	..	£	11,027
Loan	..	..	..	..	..	..	..	..	..	..	36,560
											£47,587

In addition to the above, subsidies to the amount of £4,196 were expended on Shire Roads. Total expenditure amounted to £51,783.

The Main Roads Commission expended from the funds of that Department an amount of £90,432 on construction and £15,962 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 bodies has continued and only sleepers and round bridge timbers showed an increase in supply over the previous year.

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

	1945-46.	1946-47.	1947-48.
Sleepers	270,802 pieces	215,815 pieces	294,663 pieces
Crossings	225,561 super. feet	241,942 super. feet	129,280 super. feet
Transoms	253,153 super. feet	350,065 super. feet	268,205 super. feet
Bridge timber (round)	79,533 lineal feet	81,153 lineal feet	91,531 lineal feet
Bridge timber (squared)	95,099 super. feet	229,217 super. feet	57,666 super. feet

Supplies were well below demand, caused by lucrative work offering to broad axemen in other industries which presented better living conditions. Logs suitable for girders were delivered to rail head for dressing, in an endeavour to increase production, and this policy of dressing at railway ramps or at bridge sites, instead of in bush, is expected to produce satisfactory results in future.

There are several sawmills licensed for sawing sleepers and the like only, which are producing good quantities of sleepers for the Railway Department.

Plantation Timbers.—The quantities of plantation timbers cut during the past seven years are as follow:—

		Super. feet.
1941-42	.. .. .	188,000
1942-43	.. .. .	1,252,000
1943-44	.. .. .	1,261,000
1944-45	.. .. .	955,000
1945-46	.. .. .	907,000
1946-47	.. .. .	2,005,000
1947-48	.. .. .	3,021,000

During the year 50,000,000 superficial feet of plantation thinnings were sold for removal for periods extending up to ten years.

Sandalwood.—Since re-opening of the Sandalwood trade with China, there has been little activity, due to lack of cutters.

During the year the wood of *Eremophila mitchelli* (Sandalbox, otherwise known as False Sandalwood or Rosewood) which is marketed in China as a Sandalwood substitute, was by Order in Council prescribed to be sandalwood for the purposes of "The Sandalwood Act of 1934." The cutting and marketing of this wood is thereby controlled in similar manner to Sandalwood (*Santalum lanceolatum*).

During the year under review two Sandalwood and eighteen Rosewood licenses have been issued. Deliveries were:—

		Tons	cwt.	qr.	lb.
Sandalwood	.. .. .	3	2	1	3
Rosewood	.. .. .	127	14	0	0

Of this, 56 tons 12 cwt. of Rosewood have been shipped to China.

SAWMILL LICENSES.

New sawmill licenses were granted during the year to—

- (a) applicants stating that they had supplies of private timber available for sawing; in these cases the license was restricted to sawing of private timber only; (There were 195 such licenses granted).
- (b) applicants who had purchased at auction Crown timber sales conditioned to the effect that a sawmill license would be granted to purchaser. (There were 7 such cases).

The following table indicates the position at the beginning and the end of the year:—

Number of Licenses as at 30-6-47.	Sawmill Classification.	Changes During 1947-48.					
		New Licenses Granted.	Number Ceasing to Operate.	Mills Re-licensed.	Restrictions Withdrawn.	Formerly Restricted now Unrestricted.	As at 30-6-48.
498	General mills	153	16	1	..	23	659
59	Case sawmills	31	4	..	14	..	72
44	Sleeper mills	7	7	..	7	..	37
26	Other restricted	5	2	..	2	..	27
47	Resaw and processing	6	2	..	..	..	51
674		202	31	1	23	23	846

OFFENCES.

During the year 1947/48, 165 cases of offences against Acts and Regulations administered by the Department were reported.

These were dealt with as follows:—

Twenty-two prosecutions (involving 30 people) with fines totalling £160 and proceeds from the sale of timber involved amounting to £107 19s. 5d.

One case of prosecution was dismissed and prosecution is pending in two cases.

In eighty-seven cases warnings were issued and the value of the timber collected.

In eleven cases insufficient evidence was available.

Two minor offences occurred and no action was taken.

Six cases were referred to the Main Roads Commission.

Thirty-four cases are receiving attention but action has not been completed.

The total value of timber recovered in all cases amounted to £872 7s. 0d.

FOREST PRODUCTS RESEARCH.

General.—Two technical officers were added to the staff and it has been possible to expand the volume of work. In all forest products research matters there has been collaboration with other interested bodies, in particular the Forest Products Division of the Council for Scientific and Industrial Research.

The Department was represented at the Interstate Forest Products Conference held in Melbourne in November, 1947. At the conference, thirty-five delegates from every State in the Commonwealth, New Zealand, and from New Guinea, as well as delegates of several Divisions of the C.S.I.R., and of the Commonwealth Forests and Timber Bureau, met and discussed results of the previous year's work, and also the proposed following year's programme of each organisation represented. The discussions were of great value in making each delegate well informed as to advances made by all research workers in Australia and overseas, and also in arriving at a co-ordinated programme of work for Australian research workers as a whole.

Through its representatives on the various Committees of the Australian Standards Association, the Department has contributed in the formation of new Timber Industry Standards as well as to the revision of existing Timber Standards. This work has not progressed as vigorously as its importance warrants, but it is anticipated that increased activity will result in the year ahead.

Mill Studies.—In collaboration with the Queensland Timber Stabilisation Board mill studies were carried out at four mills during a period of three months when temporary additional staff was available. Since the series commenced, in 1945, studies have been carried out at thirteen different mills. Office work on field data has been continued with only minor interruptions throughout the year, but it has not been possible to finalise reports on some of the studies conducted two years ago. It has been found that, with quickly changing Industrial Awards governing rates of pay and hours of work, results of studies made even as recently as six months earlier have only a limited application. This problem is one which is now being examined and it is hoped that a formula will be arrived at which will make it possible to utilise effectively at any future time the results of studies made.

Fancywoods.—The present is not considered an opportune time to expand sales of special timbers and activities have been confined, in the main, to those timbers which have been secured for research purposes by the Forest Products Research Branch.

Approximately 16,000 superficial feet of timber was transferred from the Research Branch. Sales amounting to £562 5s. 2d., included 11,000 superficial feet of sawn or dressed timber, 16,000 lineal feet of moulding and 417 fishing rod squares.



GETTING AWAY FROM CANVAS.

Tents for housing men are rapidly being superseded by comfortable quarters. Nineteen barracks as pictured were built in 1947/48—12 more were under construction at 30th June, 1948.



TROPIC ISLE AND WATER WAY.

South Molle Island National Park—Conway Range National Park in distance.
The Department continued its work of making more accessible the scenic beauties of National Parks.

Wood Structure and Identification.—During the year under review 843 separate identifications of timber samples were made; lectures on wood structure and identification and individual instruction were given to interested persons, and a considerable number of authentic wood samples were secured for microscopic research by the Division of Forest Products, Council for Scientific and Industrial Research.

An investigation of the effect of rate of growth on properties of wood, which had been commenced in 1936, in collaboration with the Division of Forest Products, C.S.I.R., has been reviewed in the light of results so far obtained. Timbers included in this test are Hoop Pine (*Pinus taeda* and *P. caribaea*), Cypress Pine, Ironbark, Spotted Gum and Blackbutt.

Utilisation.—The Department's problems in regard to utilisation at present are not so much to find a use for woods, as to devote woods to their best uses, and to avoid waste. Some of the activities in this direction are:—

Investigations concerning borer susceptible timbers and advice thereon to interested persons.

Advising regarding timbers required for the following purposes:—

Ships' Decking, Scaffold planks for shipbuilding, Butter Churns, Meat Skewers, Electrical Switchgear, Battery Separators, Violins and Violin Bows, Saddle Trees, Smoking Pipes, Rules and Scales, Plumbers' Bobbins and Turnpins.

Investigation of value of Brush Box for plywood purposes.

Review of timber specifications and suggestions for modification.

Survey of sawmilling and building activities—North Queensland.

Continuation of preparation of pamphlets on timbers.

Investigation of timbers for export butter box purposes, in conjunction with the Council for Scientific and Industrial Research.

Investigation of timbers for coooperation.

Discussion with the Council for Scientific and Industrial Research on the possibility of manufacture of building boards of pressed wood fibres.

Assistance to the Council for Scientific and Industrial Research in testing native plants for drugs, and investigation of other minor products.

Chemistry.—In the year under review a chemical laboratory was established within the Branch. The assistance provided by the Government Analyst in the matter of staff and equipment in past years is gratefully acknowledged.

The acute shortage of basic materials for veneer adhesives—lactic casein, caustic alkalis and lime—has made urgent the problem of obtaining satisfactory substitutes. Rennet casein has been tested and satisfactory formulae, using available alkali, have been developed, but results using starches in lieu of casein and in combination therewith have not been satisfactory.

Preservation.—Work has been concentrated largely on the problem of the treatment of timbers susceptible to the Powder Post Borer.

The Department has been active in assisting and advising owners and operators of existing preservation plants in problems which arise and in the maintenance of routine operations. The Department has also assisted in the design and installation of new plants.

At the end of the year nine plants for immunisation of timber against *lyctus* borer attack were operating in Queensland, and eleven others are projected. The approximate annual capacity of existing plants is:—

Sawn timber.—3 plants, 3,000,000 superficial feet.

Plywood and Veneers.—6 plants, 38,000,000 sq. feet (1/16th inch basis).

The chief chemical used in preservation plants in Queensland is boric acid, which is found to have disadvantages in its effects on the vats and by reason of the fact that certain fungicides cannot be satisfactorily used in conjunction with it. The Department has carried out tests with borax, and it has been found that this can be used in conjunction with fungicides, and also give the desired borer immunity. The use of borax instead of boric acid also permits sheet steel instead of copper for vat linings, at a substantial reduction in cost.

Other work in this direction has dealt with preservation methods and schedules for different timbers.

Research work on marine borers has been continued.

Durability tests of various railway and other constructional specifications were carried further.

Means of overcoming "blue stain" in pine boards are being investigated.

Seasoning.—The number of timber and veneer drying kilns in Queensland has increased by one, to a total of 171, during the year. This State does not yet possess the number of drying plants that could be usefully engaged, but at the moment sawmillers and timber merchants are disinclined to engage on extensive capital outlay on account of the costs of construction, and because the demand for timber is so urgent that buyers are clamouring to accept the timber as soon as it comes off the saw.

Nevertheless, those firms with kilns are maintaining a high standard of service—their problems generally have been overcome and there is little call for advice or assistance from this Department. A number of cases have been noted, however, where kiln operators are lacking in training and in these instances contact has been made and assistance given.

Air seasoning studies have been commenced on nineteen secondary timbers. In addition to observations regarding the rate of drying of these timbers, records were kept of shrinkage from green to dry, and basic density figures are being determined.

Lectures in timber seasoning were given to Central Technical College classes, to employees at the Ipswich Railway Workshops, and to students of the Post-War Reconstruction School at Windsor.

Drying of timber was carried on for the Public Works Department and for the Ipswich Railway Workshops, a total of 64,000 superficial feet being handled during the year.

Acknowledgments.—Grateful acknowledgment is made to the Government Botanist and to the Government Analyst for their continued and valuable services and assistance on numerous occasions throughout the year.

It is also desired to express warm appreciation to the Chief of the Division of Forest Products, C.S.I.R., and his officers for their many services.

STAFF AND GENERAL.

Accommodation.—Very welcome relief was afforded in the provision of increased accommodation at Brisbane, and although by reason of its scattered nature the present office provision is far from ideal, still the greater space made available has enabled some expansion and generally speaking a more efficient layout in many Branches.

There is still congestion at a number of district offices whose cases are at present under discussion with the Public Service Commissioner, with a view to rectification of the position.

Good progress was made during the year with the provision of new headquarters at Monto, and it is expected that these will be in occupation at an early date.

Staff.—I regret very much to record the death of two officers during the year, namely, Messrs. W. J. O'Donnell, Road Engineer, and J. P. Devereaux, Forest Ranger, Umbil, both of whom rendered valuable service to the Department.

There were no retirements during the year, but there were sixteen resignations from the permanent staff.

The field organisation was further strengthened during the year as follows:—

	Number at—	
	1-7-1947.	30-6-1948.
District Foresters	8	8
Foresters, Division I	4	3
Foresters, Division II	8	13
Foresters, Division III	16	16
Forest Rangers	35	40

Award Amenities.—During the year a heavy programme of construction of improved housing for men employed under the Forestry Employees' Award was launched, and is still in progress.

In conclusion, I desire to express my thanks to all members of the staff for loyal efforts during a strenuous year.

V. GRENNING, Director of Forests.

13th September, 1948.

Appendices.

APPENDIX A.

Return of Timber, &c., removed from Crown Lands during Year ended 30th June, 1948.

Species.	Quantity.	
	Super. ft.	Super. ft.
Milling Timber—		
Hoop and Bunya Pine—		
Ply	9,410,593	
Logs	34,859,711	
Tops	34,541,089	
		78,811,393
Kauri Pine	5,418,092	
Cypress Pine	14,850,682	
Forest Hardwoods	52,148,388	
Scrub Hardwoods	9,145,247	
Cabinet Woods	15,955,375	
Miscellaneous Species	24,735,202	
		122,252,986
Plantation Thinnings—		
Pinus caribaea	738,074	
Pinus echinata	3,059	
Pinus insularis	14,738	
Pinus radiata	376,754	
Pinus taeda	396,709	
Hoop Pine	1,446,212	
Kauri Pine	9,786	
Maple	1,782	
Silky Oak	4,638	
Cedrela Mexicana	29,465	
		3,021,217
Total		204,085,596
Other Classes—		
Sleepers	194,545	pieces
Sleeper Blocks	247,743	pieces
Headstocks, Transoms, and Crossings	514,936	superficial feet
Girders, Corbels, Piles, and Sills	148,835	lineal feet
Poles	369,850	lineal feet
House Blocks	264,996	lineal feet
Round Timbers	126,393	lineal feet
Fencing Materials	231,500	pieces
Fencing Materials	120,996	lineal feet
Decking	3,458	lineal feet
Hewn and Bridge Timbers	44,559	superficial feet
Mining Timbers	150,914	pieces
Mining Timbers	572,636	lineal feet
Stakes	7,768	pieces
Fuel	49,799	ords
Chopper Blocks	240	lineal feet
Sleeper Chips	7	loads
Trees and Plants	3,061	pieces
Charcoal	73,487	bags
Mulga	53	tons 18 cwt.
Rosewood	143	tons 9 cwt.
Kauri Gum	41	tons 1 cwt.
Lawyer Cane	368	tons 1 cwt.
Sand, Gravel, and Soil	28,751	cubic yards
Shell Grit	45	tons
Bricks	7,500	pieces

APPENDIX B.

Annual Cut—Pine—Financial Year ended 30th June, 1948.

Working Plan Area.	Ply.	Logs.	Tops.	Total.
	Super. ft.	Super. ft.	Super. ft.	Super. ft.
Bowen	Nil	280,461	227,343	507,804
Brisbane	1,710,109	7,333,186	6,954,119	15,997,414
Brisbane Valley	2,310,175	10,498,774	11,397,903	24,212,852
Bundaberg	113,865	664,399	693,254	1,471,518
Gympie	7,812	685,050	483,239	1,176,101
Kilkivan	2,264,233	5,297,160	5,663,237	13,224,630
Mackay	Nil	136,815	121,104	257,919
Many Peaks	2,093,662	4,584,368	4,466,927	11,144,957
Maryborough	707,377	2,832,282	2,986,658	6,526,317
Mary Valley	197,360	1,660,876	878,492	2,736,728
Rockhampton	Nil	67,245	20,620	87,865
Townsville	Nil	212,234	129,786	342,020
Warwick	Nil	606,861	518,407	1,125,268
Totals	9,410,593	34,859,711	34,541,089	78,811,393

APPENDIX C.

Receipts under the State Forests and Timber and Quarry Regulations for the Year ended 30th June, 1948.

Districts.	Totals.	
	£	s. d.
Group 1—South Queensland (Brisbane, Bundaberg, Gympie, Maryborough, Toowoomba, Warwick)	555,735	18 3
Group 2—Goondiwindi, Inglewood, St. George, Stanthorpe	6,430	3 10
Group 3—Dalby	13,007	14 2
Group 4—Charleville, Cunnamulla, Roma	767	5 11
Group 5—Barcaldine, Blackall, Jundah, Longreach, Muttaborra, Stonehenge, Winton, Aramac	639	0 8
Group 6—Clermont, Emerald, Springsure	1,555	19 6
Group 7—Gayndah, Gladstone, Monto, Taroom, Theodore	292	12 11
Group 8—Rockhampton	1,029	12 7
Group 9—Mackay	5,032	17 1
Group 10—Bowen	1,770	11 3
Group 11—Townsville	3,895	15 7
Group 12—Charters Towers, Ravenswood	382	2 2
Group 13—Hughenden	273	15 8
Group 14—Cloncurry, Boulia, Kyana, Mackinlay	164	19 11
Group 15—North Queensland (Atherton, Herberton, Cooktown, Port Douglas, Cairns, Innisfail, Ingham)	314,343	16 1
Group 16—Burketown, Coen, Croydon, Georgetown, Normanton, Thursday Island	20	3 4
	905,342	8 11
Receipts—Forestry and Lumbering	93,890	15 10
Sale of Plants, Material, &c.	4,556	6 6
Rents and Grazing Dues	4,176	8 5
	1,007,965	19 8
Less Treasury Refunds	1,169	8 8
	£1,006,796	11 0

COMPARISON WITH TOTALS OF PREVIOUS YEARS.

1943-44.	1944-45.	1945-46.	1946-47.
£1,123,921	£1,555,425	£914,824	£988,910

APPENDIX D.

Proceeds of Sales of Timber, &c., for the Period from 1st July, 1944, to 30th June, 1948.

Districts.	1944-45.		1945-46.		1946-47.		1947-48.	
	£	s. d.	£	s. d.	£	s. d.	£	s. d.
Group 1	636,793	9 11	545,488	4 2	547,344	16 7	555,735	18 3
Group 2	3,852	1 10	3,482	9 9	3,981	9 5	6,430	3 10
Group 3	4,484	8 1	5,209	6 0	10,373	18 0	13,007	14 2
Group 4	384	5 9	433	9 4	485	5 6	767	5 11
Group 5	656	2 0	584	11 0	784	14 3	639	0 8
Group 6	520	3 2	510	2 2	1,073	13 6	1,555	19 6
Group 7	222	11 3	166	0 2	250	3 0	292	12 11
Group 8	597	16 11	919	11 6	1,269	5 9	1,029	12 7
Group 9	1,116	7 5	1,712	12 1	2,345	13 1	5,032	17 1
Group 10	875	18 0	1,946	10 5	1,885	11 5	1,770	11 3
Group 11	2,477	9 1	1,481	2 11	1,768	9 2	3,895	15 7
Group 12	864	4 1	997	15 9	854	17 6	382	2 2
Group 13	257	2 3	226	4 7	385	3 9	273	15 8
Group 14	256	1 3	169	13 4	233	9 7	164	19 11
Group 15	223,789	2 10	225,643	2 7	333,244	19 9	314,343	16 1
Group 16	2	10 6	2	5 3	4	15 4	20	3 4
	877,149	14 4	788,973	1 0	906,286	5 7	905,342	8 11
Receipts — Forestry and Lumbering	208,453	16 2	82,933	4 6	74,673	12 4	93,890	15 10
Sale of Plants, Materials, &c.	7,146	7 3	4,979	14 11	4,035	15 7	4,556	6 6
Rents and Grazing Dues	4,323	4 6	4,627	15 6	4,678	19 4	4,176	8 5
Miscellaneous Receipts and Adjustments .. .. .	..	..	8	0 0	..	..	..	..
Surplus from Previous Year—Forestry and Lumbering Operations	59,644	13 11	34,864	4 6	..	..	..	..
	1,156,717	16 2	916,386	0 5	989,674	12 10	1,007,965	19 8
Less Treasury Refunds	1,292	10 0	1,562	5 11	764	15 0	1,169	8 8
	1,155,425	6 2	914,823	14 6	988,909	17 10	1,006,796	11 0

APPENDIX E.

The following Schedule illustrates the market price of logs during the Year 1st July, 1947, to 30th June, 1948.

Species.	Log Class.	Delivery.	Prices.			
			1-7-47.	July, 1947.	Jan., 1948.	June, 1948.
			<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>
Red Tulip Oak	7 ft. plus	F.o.r. Cairns	16 6	18 3	19 3	21 1
		F.o.r. Townsville	17 6	19 3	20 3	22 1
Red Cedar	8 ft. plus	F.o.r. Cairns	41 5	43 0	44 0	45 1
		F.o.r. Townsville	42 5	44 0	45 0	46 1
		F.o.r. Netherdale	33 3	34 10	35 10	36 5
		F.o.r. Brisbane	41 6	41 10	42 10	44 2
Kauri Pine	8 ft. plus	F.o.r. Cairns	19 10	21 5	22 5	23 6
		F.o.r. Townsville	20 10	22 5	23 5	24 6
Walnut	8 ft. to 8 ft. 11 ins.	F.o.r. Cairns	23 7	30 0	31 0	32 10
		F.o.r. Townsville	24 7	31 0	32 0	33 10
Silky Oak	8 ft. plus	F.o.r. Cairns	20 1	21 10	22 10	24 8
		F.o.r. Townsville	21 1	22 10	23 10	25 8
Maple	8 ft. to 8 ft. 11 ins.	F.o.r. Cairns	28 11	30 6	31 6	32 7
		F.o.r. Townsville	29 11	31 6	32 6	33 7
Black Pine	8 ft. plus	F.o.r. Cairns	17 10	19 5	20 5	21 6
		F.o.r. Townsville	18 10	20 5	21 5	22 6
Putts Pine	8 ft. plus	F.o.r. Cairns	21 8	23 5	24 5	26 3
		F.o.r. Townsville	22 8	24 5	25 5	27 3
White Beech	8 ft. plus	F.o.r. Cairns	22 1	23 10	24 10	26 8
		F.o.r. Townsville	23 1	24 10	25 10	27 8
		F.o.r. Brisbane	29 0	29 4	30 4	31 8
Hickory	8 ft. plus	F.o.r. Cairns	18 6	20 3	21 3	23 1
White Ash	7 ft. plus	F.o.r. Cairns	17 3	19 0	20 0	21 10
		F.o.r. Townsville	18 3	20 0	21 0	22 10
Tarzali Silkwood	7 ft. plus	F.o.r. Cairns	16 6	18 3	19 3	21 1
		F.o.r. Townsville	17 6	19 3	20 3	22 1
Satin Sycamore	7 ft. plus	F.o.r. Cairns	15 3	18 0	19 0	20 10
		F.o.r. Townsville	16 3	19 0	20 0	21 10
Yellow Walnut	7 ft. plus	F.o.r. Cairns	14 5	16 2	17 2	19 0
		F.o.r. Townsville	15 5	17 2	18 2	20 0
Brown Pine (She Pine)	7 ft. plus	F.o.r. Brisbane	18 6	18 10	19 10	21 2
White Cedar	7 ft. plus	F.o.r. Brisbane	20 6	20 10	21 10	23 2
Yellowwood	6 ft. plus	F.o.r. Brisbane	20 0	20 6	21 6	23 8
Crows Ash	6 ft. plus	F.o.r. Brisbane	20 0	20 6	21 6	23 8
Southern Silver Ash (Bumpy Ash)	6 ft. plus	F.o.r. Brisbane	19 6	19 10	20 10	22 2
Bennetts Ash	6 ft. plus	F.o.r. Brisbane	19 6	20 0	21 0	23 2
Leopard Ash (Leopard's Wood)	6 ft. plus	F.o.r. Brisbane	19 6	20 0	21 0	23 2
Bonewood	6 ft. plus	F.o.r. Brisbane	17 3	17 9	18 9	20 11
Bollywood (Brown Bollywood) (Bollygum)	6 ft. plus	F.o.r. Brisbane	16 9	17 1	18 1	19 5
Brown Tulip Oak (Crows Foot Elm)	6 ft. plus	F.o.r. Brisbane	14 3	14 9	15 9	17 11
Carrobean	6 ft. plus	F.o.r. Brisbane	16 9	20 0	21 0	23 2
Kurrajong (Flame Tree)	6 ft. plus	F.o.r. Brisbane	15 3	15 7	16 7	17 11
Pink Poplar (Blush Cudgerie) (Maiden's Blush)	6 ft. plus	F.o.r. Brisbane	11 9	12 1	13 1	14 5
Red Silky Oak (Beef wood)	6 ft. plus	F.o.r. Brisbane	17 3	17 9	18 9	20 11
Rose Mahogany	6 ft. plus	F.o.r. Brisbane	18 3	18 9	19 9	21 11
Rose Maple (Rose Walnut) (Pigeonberry Ash)	6 ft. plus	F.o.r. Brisbane	17 9	18 3	19 3	21 5
Sassafras	6 ft. plus	F.o.r. Brisbane	16 9	17 1	18 1	19 5
Silver Quandong	6 ft. plus	F.o.r. Brisbane	18 9	19 1	20 1	21 5
Southern Silky Oak	6 ft. plus	F.o.r. Brisbane	21 9	22 3	23 3	25 5
Tulip Plum (Burdakin Plum)	6 ft. plus	F.o.r. Brisbane	19 3	19 9	20 9	22 11
White Walnut (Pepperberry)	6 ft. plus	F.o.r. Brisbane	17 7	18 1	19 1	21 3
Scrubwood Species not elsewhere included in Forestry Sub- Department Log Price Lists—						
Light Scrubwoods	6 ft. plus	F.o.r. Brisbane	11 9	12 1	13 1	14 5
Heavy Scrubwoods	6 ft. plus	F.o.r. Brisbane	14 3	14 9	15 9	17 11
Scrubwoods and Hardwoods	7 ft. plus	F.o.r. Cairns	16 6	18 3	19 3	21 1
		F.o.r. Townsville	17 6	19 3	20 3	22 1
Hardwoods	6 ft. plus	F.o.r. Brisbane, War- wick and Gladstone	13 6	15 3	16 3	17 10
Hardwoods	6 ft. plus	F.o.r. Maryborough, Bundaberg and Toowoomba	13 0	14 9	15 9	17 4
Hardwoods	6 ft. plus	F.o.r. Rockhampton	14 0	15 9	16 9	18 4
Hardwoods	6 ft. plus	F.o.r. Townsville	18 3	20 0	21 0	22 7
Hardwoods	6 ft. plus	F.o.r. Mackay	14 0	15 9	16 9	18 4
Hardwoods	6 ft. plus	F.o.r. Ingham	17 3	19 0	20 0	21 7
Hoop Pine Ply	7 ft. plus	F.o.r. Brisbane	30 0	31 7	32 7	34 0
Hoop Pine "A" Quality Logs	7 ft. plus	F.o.r. Brisbane	23 0	24 7	25 7	27 0
Bunya Pine Logs	7 ft. plus	F.o.r. Brisbane	20 6	22 1	23 1	24 6
Hoop Pine Tops	7 ft. plus	F.o.r. Brisbane	12 6	14 1	15 1	16 6
Bunya Pine Tops	7 ft. plus	F.o.r. Brisbane	11 0	12 7	13 7	15 0

APPENDIX F.

Railway Timbers supplied during Financial Year 1947-48, under Forestry and Lumbering Operations.

Class of Timber.	Quantity.	Sales Value.		
		£	s.	d.
Crossings	129,280 superficial feet	2,202	9	3
Headstocks, Longitudinals, Braces	48,495 superficial feet	997	4	4
Transoms	268,205 superficial feet	5,500	12	6
Hewn Hardwood	9,171 superficial feet	233	6	1
Girders and Corbels	18,291 lineal feet	4,842	16	5
Piles	72,112 lineal feet	9,003	13	1
Poles	11,230 lineal feet	1,063	12	10
Round and End Posts	9,976 lineal feet	850	16	1
Sills	1,128 lineal feet	128	19	11
Split Rails	31,098 pieces	2,560	11	4
Sleepers	78,976 pieces	21,436	17	4
Sleeper Blocks (as sleepers)	197,979 pieces	36,671	0	5
Miscellaneous Timbers	17,708 pieces	4,206	16	10
Total .. .. .	..	£89,698	16	5

APPENDIX G.

Comparative Statement of Expenditure for Years 1946-47 and 1947-48.

	1946-47.	1947-48.
	£	£
Revenue—		
Salaries	77,601	90,957
Travelling and Incidentals	10,226	13,880
Extra Living Allowances	981	1,152
National Parks Supervision	371	847
Cash Equivalent Extended Leave (F. D. Chippendall)	248	..
Cash Equivalent Extended Leave (W. J. O'Donnell) .. .. .	..	245
Loan—		
Reforestation	428,322	482,738
Access Roads	27,750	..
Plant and Construction .. .. .	..	35,906
Subsidies to Local Authorities .. .. .	..	3,309
Acquisition of Land for Forestry Purposes	18,157	21,850
Trust—		
Hardwood Supplies to Railway Department and Others	68,866	79,382
Harvesting and Marketing Timber	516,785	509,958
Treasury—		
Post-War Reconstruction and Development Fund—		
Reforestation	Or. 25,571	27,632
National Parks	22,864	23,445
Access Roads	14,282	..
Plant and Construction .. .. .	..	11,681
Subsidies to Local Authorities .. .. .	..	887
	£1,160,882	£1,303,869

APPENDIX H.
Summary of Loan Reforestation Expenditure, 1947-48.

Reserve.	Reforestation.						Surveys.	Protection, Fire-fighting, Pear Clearing, &c.	Maintenance of Capital Improvements.	New Construction of Nurseries, Buildings, &c.	Total of Columns 2-9.	Overhead Expenses.		Total Overhead.	Reserve Total.
	Plantations.	Natural Regeneration.	Nursery Working and Maintenance.	Forest Experiment.	Total of Columns 2-9.							Stores, Fodder, Supervision, &c.	Holidays, Wet Time, &c.		
					£	s. d.										£	s. d.
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
	BRISBANE WORKING PLAN AREA.														
R. 63	2,402 18 11	..	..	..	70 14 7	695 3 3	92 1 3	..	452 10 7	0 8 0	74 8 10	0 8 0	0 8 0	0 8 0
R. 69	2,284 15 0	..	..	..	37 4 8	433 4 0	45 8 1	..	460 12 5	62 7 7	78 2 11	186 16 5	619 7 0	0 6
R. 215	3,495 15 5	..	..	..	177 4 8	447 11 0	344 15 1	..	1,408 3 6	50 5 2	78 2 11	128 8 1	589 0 6	0 6
R. 309	1,904 16 9	..	..	..	20 10 5	360 5 9	48 18 6	..	1,665 11 0	329 13 6	355 18 4	685 16 4	2,084 19 10	0 8
R. 449	4,861 0 1	..	..	..	263 6 5	1,441 3 1	921 17 11	..	2,884 15 3	212 7 6	182 9 2	394 16 8	1,080 17 8	0 0
R. 494	1,861 14 0	..	..	..	23 11 11	1,627 3 8	1,120 5 3	..	286 15 1	207 17 5	186 5 8	464 13 3	1,223 3 0	0 0
R. 667	4,532 13 0	..	..	..	238 6 10	2,555 12 8	38 15 10	..	807 12 10	222 14 0	22 1 3	44 15 3	1,331 0 6	0 0
R. 702	2,749 13 1	..	..	..	..	..	..	..	306 17 10	213 18 4	218 1 1	431 9 5	1,329 2 3	0 0
R. 727	..	..	..	..	..	..	..	..	11 10 1	10 13 5	7 8 5	939 6 10	202 16 2	0 0
R. 1376	..	..	..	..	..	..	..	..	689 0 9	249 7 1	165 6 10	185 6 3	939 6 10	0 0
Pay Roll Tax Administration	..	..	..	..	..	..	..	..	..	..	..	..	202 16 2	0 0
Fire-fighting and Patrol Administration	..	..	..	..	..	..	..	..	..	..	..	..	249 7 1	0 0
Plantation Experiments	..	..	..	..	..	..	..	..	..	..	..	..	205 5 0	0 0
District Stock and Drum Accounts	..	..	..	..	..	..	..	..	..	..	..	..	205 5 0	0 0
	1,171 8 11	71 0 4	71 0 4	71 0 4	4,461 19 9	73 2 1	211 16 8	6,009 7 9	3,143 13 3	4,603 14 0	1,472 18 8	6,076 12 8	12,086 0 5	0 5	
	BRISBANE VALLEY WORKING PLAN AREA.														
R. 120	2,402 18 11	..	..	..	70 14 7	695 3 3	92 1 3	..	3,270 5 9	1,031 12 7	523 10 7	1,555 3 2	4,825 8 11	0 0
R. 127	2,284 15 0	..	..	..	37 4 8	433 4 0	45 8 1	..	3,656 7 9	1,218 8 0	370 11 2	1,588 19 2	5,245 6 11	0 0
R. 215	3,495 15 5	..	..	..	177 4 8	447 11 0	344 15 1	..	5,394 15 2	1,872 6 5	828 6 4	1,700 12 9	7,095 7 10	0 0
R. 258	1,904 16 9	..	..	..	20 10 5	360 5 9	48 18 6	..	5,211 18 2	1,782 18 7	378 19 10	1,761 18 3	4,373 16 5	0 0
R. 288	4,861 0 1	..	..	..	263 6 5	1,441 3 1	921 17 11	..	8,011 13 6	3,506 8 7	1,942 19 9	5,449 8 4	14,461 1 10	0 0
R. 289	1,861 14 0	..	..	..	23 11 11	1,627 3 8	1,120 5 3	..	9,433 4 2	3,945 5 9	1,861 14 3	5,807 0 3	15,240 4 2	0 0
R. 299	4,532 13 0	..	..	..	238 6 10	2,555 12 8	38 15 10	..	8,823 1 4	910 10 11	533 11 4	1,444 2 3	5,272 3 7	0 0
R. 325/9, R. 474	2,749 13 1	..	..	..	..	..	..	..	0 1 6	551 2 1	172 2 6	723 4 7	1,788 13 3	0 0
R. 379	..	..	..	..	23 5 0	61 7 10	21 15 3	..	1,065 8 8	551 2 1	18 14 4	19 8 10	1,112 11 6	0 0
R. 480	..	..	..	..	88 11 0	1 16 8	40 15 0	..	40 0 0	873 16 5	636 17 6	665 2 1	2,083 6 6	0 0
R. 609/9	787 12 10	26 0 2	26 0 2	26 0 2	42 7 0	1,263 12 3	248 9 9	..	3,083 2 8	390 15 8	274 6 5	1,344 3 5	4,593 16 7	0 0	
Pay Roll Tax Administration	..	..	..	..	..	..	..	..	..	..	..	..	1,344 3 5	0 0
Fire-fighting and Patrol Administration	..	..	..	..	..	..	..	..	..	..	..	..	295 0 2	0 0
Depot Stock and Drum Accounts	..	..	..	..	..	..	..	..	..	..	..	..	4,136 7 4	0 0
Experiments	..	..	..	..	..	..	..	..	..	..	..	..	736 15 0	0 0
Forest Inventory Surveys	23,079 5 10	26 0 2	26 0 2	26 0 2	0 10 5	630 17 6	..	..	630 17 6	..	..	..	4,136 7 4	0 0
	23,079 5 10	736 15 0	736 15 0	736 15 0	1,007 3 11	8,316 1 3	2,929 2 3	8,765 19 7	44,874 7 1	13,515 8 4	8,835 17 5	27,401 5 9	72,275 12 10	0 0	
	BUNDABERG WORKING PLAN AREA.														
R. 49	..	..	..	..	7 8 5	7 8 5	25 10 10	..	1,660 12 3	3 4 8	388 11 5	3 4 8	10 13 1	0 0
R. 80	..	..	..	..	12 10 5	1,157 7 4	11 3 10	..	1,434 10 5	625 6 9	229 18 3	680 18 10	2,674 10 5	0 0
R. 169	..	..	..	..	9 3 7	1,660 19 1	38 9 6	..	2,083 10 1	819 16 9	417 17 5	1,237 14 2	2,125 9 3	0 0
R. 191	..	..	..	..	..	260 17 0	9 10 10	..	1,813 5 6	1,042 13 0	662 10 1	2,305 3 1	3,277 4 3	0 0
R. 832	..	..	..	..	..	15 19 7	..	..	1,972 2 2	38 15 10	76 9 5	36 15 10	4,118 8 7	0 0
R. 837	..	..	..	..	..	..	..	..	..	..	..	..	1,011 3 0	0 0
Pay Roll Tax Administration	..	..	..	..	..	..	..	..	..	..	..	..	76 9 5	0 0
Fire-fighting and Patrol Administration	..	..	..	..	..	..	..	..	..	..	..	..	40 13 5	0 0
Experiments	..	..	..	..	..	..	..	..	..	..	..	..	154 7 9	0 0
Drum Account	..	..	..	..	..	..	..	..	..	..	..	..	1,058 3 7	0 0
	..	2,162 14 2	2,162 14 2	2,162 14 2	21 14 0	5,156 19 11	84 15 0	655 18 6	9,140 5 2	3,624 11 0	1,775 6 7	5,389 17 7	14,540 2 9	0 0	

APPENDIX H—continued.

Reserve.	Reforestation.				Surveys.	Protection, Fire-fighting, Pear &c.	Maintenance of Capital Improvements.	New Construction of Nurseries, Buildings, &c.	Total of Columns 2-9.	Overhead Expenses.			Total Overhead.	Resery Total.
	Plantations:	Natural Regeneration.	Nursery Working and Maintenance.	Forest Experiment.						Stores, Fodder, Supervision, &c.	Holidays, Wet Time, &c.	Total Overhead.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
R. 117.	26 16 6	..	..	..	1,674 17 1	..	59 12 5	1,761 8 0	378 6 8	264 1 11	1,142 8 7	2,903 16 7	
R. 127.	36 14 8	..	..	..	2,284 6 4	..	228 10 0	2,520 11 0	1,300 1 6	295 8 3	1,596 9 9	4,126 0 9	
Pay Roll Tax	155 15 4	155 15 4	155 15 4	
Administration	12 10 0	..	12 10 0	12 10 0	
Depot Stock and Drum Accounts	63 2 5	..	63 2 5	63 2 5	
	..	63 13 2	..	..	..	3,930 3 5	..	238 2 5	4,290 19 0	2,254 0 7	716 5 6	2,970 6 1	7,361 5 1
CLERMONT WORKING PLAN AREA.														
R. 4	203 0 4	..	..	..	217 7 1	..	2,090 11 10	437 15 2	371 16 11	82 16 3	454 13 2	382 8 4	
R. 16	3,382 9 7	..	..	..	3,996 18 3	17 7 9	2,115 10 4	9,877 14 8	5,466 17 6	1,653 4 4	7,120 1 10	16,997 19 6	
R. 78	4,745 8 11	..	..	..	515 0 2	437 14 7	215 10 4	5,509 13 8	2,382 14 7	1,085 17 4	3,468 11 11	8,378 5 7	
R. 83	3 6 5	..	..	734 7 3	83 7 10	292 8 7	1,195 13 2	574 0 8	213 17 6	787 18 2	1,988 11 4	
R. 93	2,201 3 4	62 11 11	464 11 10	2,728 7 1	950 11 8	477 10 9	1,438 2 5	4,156 9 6	
R. 150	184 7 2	28 8 10	277 0 7	3,505 10 8	473 7 0	291 16 8	1,270 14 4	1,270 14 4	
R. 154	15 14 1	..	..	..	1,249 6 6	115 19 5	64 2 0	3,921 12 5	2,265 11 9	851 9 11	3,117 1 8	7,038 14 1	
R. 155	2,492 4 6	..	..	..	1,209 12 2	60 2 4	352 19 5	1,022 13 11	786 4 9	213 16 1	950 10 10	2,572 14 9	
Pay Roll Tax	1,021 7 3	1,021 7 3	
Administration	585 17 1	..	585 17 1	585 17 1	
Fire-fighting and Patrol	
Experiments	
District Stock and Drum Accounts	2,717 18 4	..	2,717 18 4	2,717 18 4	
	..	10,873 18 3	3 6 5	37 2 1	..	11,202 15 4	836 9 2	3,757 4 7	26,710 15 10	16,525 0 3	5,891 16 1	22,416 16 4	49,127 12 2	
DALBY WORKING PLAN AREA.														
R. 3	135 18 4	929 4 10	..	..	2,257 3 5	305 18 8	208 7 1	3,836 12 4	3,036 6 1	1,925 6 11	4,861 13 0	8,198 5 4	
Pay Roll Tax	
Administration	
Fire-fighting and Patrol	
Experiments	
Depot Stock and Drum Accounts	
	..	135 18 4	929 4 10	..	..	2,261 19 2	305 18 8	208 7 1	3,929 15 1	3,591 12 3	1,519 0 10	5,110 13 1	9,040 8 2
FRASER ISLAND WORKING PLAN AREA.														

APPENDIX H—continued.

Reserve.	Reforestation.						Surveys.	Protection, Fire-fighting, Pear Clearing, &c.	Maintenance of Capital Improvements.	New Construction of Nurseries, Buildings, &c.	Total of Columns 2-9.	Overhead Expenses.		Total Overhead.	Reserve Total.
	Plantations.	Natural Regeneration.	Nursery Working and Maintenance.	Forest Experiment.	Stores, Fodder, Supervision, &c.							Holidays, Wet Time, &c.			
					£	s. d.							£			s. d.
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	
King Area	1,500 17 0		607 2 3		33 10 0	4 165 2 8	193 1 8	528 2 1	33 10 0	1 982 8 1	1 888 6 10	3 670 14 11	33 10 0		
Pomona					104 16 8	4 846 11 1	135 0 0	158 6 11	7 003 5 8	7 82 15 10	1 169 5 11	1 802 0 11	10 874 0 7		
Tewantin					12 18 11	1 762 3 5	6 18 2	248 19 4	4 744 14 8	564 8 11	1 449 17 3	1 802 0 11	6 946 15 7		
Traveston	6 336 10 9		476 8 4		137 6 9	1 256 3 4	17 15 2	308 17 10	2 025 19 10	3 019 6 11	2 071 18 7	1 014 6 0	3 040 6 0		
R. 82 and R. 242	1 442 6 2		435 13 0		481 7 3	1 573 0 11	74 18 5	120 11 2	7 618 0 2	1 882 14 0	1 178 8 2	5 091 5 6	12 704 5 8		
R. 124						1 307 5 7		2 7 7	4 108 5 11	657 10 2	1 295 11 4	2 561 2 2	6 809 8 1		
R. 284						623 6 11	91 1 4	723 15 4	1 309 13 2	3 310 5 3	2 265 11 5	943 1 4	2 252 14 6		
R. 392	3 694 10 9		510 6 10		483 18 8	4 138 12 11	12 18 5	509 0 7	6 007 8 10	2 670 12 6	1 882 3 0	5 575 6 6	11 582 15 6		
R. 393					0 11 7	2 845 5 11		58 15 10	4 900 8 2	1 075 4 9	1 382 3 0	4 052 15 6	8 953 3 8		
R. 502						1 993 16 7		450 6 10	2 404 1 9	704 12 7	542 18 3	1 623 15 1	4 027 16 10		
R. 627									2 482 3 3		1 065 17 2	1 247 10 10	3 729 14 1		
Pay Roll Tax										857 15 4		1 865 17 2	1 965 17 2		
Administration													1 865 17 2		
Experiments													110 10 9		
Fire-fighting and Patrol													801 2 3		
Surveys													14 6 9		
Depot Stock and Drum Accounts													8 934 5 9		
	12 883 13 8	277 8 7	2 029 10 5	110 10 9	1 218 16 7	23 312 19 6	531 13 2	3 194 3 6	43 568 11 2	25 891 19 1	13 247 18 3	39 139 17 4	82 898 8 6		
R. 48													353 13 7		
R. 76	3 2 11												124 11 6		
R. 79	179 0 7												831 1 2		
R. 81	408 11 0												92 17 11		
R. 101													865 7 10		
R. 117	596 4 1												1 768 13 9		
R. 119	985 5 6												2 226 12 8		
R. 122													147 17 6		
R. 125	653 2 10												2 278 6 11		
R. 132													30 8 11		
R. 134	265 2 11												1 039 4 6		
R. 136													8 5 6		
R. 144													5 8 6		
Pay Roll Tax													268 0 9		
Fire-fighting and Patrol													84 19 7		
Administration													385 14 11		
Telephone Lines													13 13 4		
Experiments													13 13 4		
Depot Stock and Drum Accounts													63 7 3		
	3 090 9 10	277 8 7	2 029 10 5	63 7 3	1 218 16 7	23 312 19 6	578 2 9	3 827 4 10	6 564 4 8	3 754 12 0	1 800 11 9	5 355 3 9	11 909 8 5		

GYMPIE WORKING PLAN AREA.

INGLEWOOD WORKING PLAN AREA.

APPENDIX H—continued.

Reserve.	Reforestation.				Surveys.	Protection, Fire-fighting, Fear Clearing, &c.	Maintenance of Capital Improvements.	New Construction of Nurseries, Buildings, &c.	Total of Columns 2-9.	Overhead Expenses.		Total Overhead.	Reserve Total.
	Plantations.	Natural Regeneration.	Nursery Working and Maintenance.	Forest Experiment.						Stores, Fodder, Supervision, &c.	Holidays, Wet Time, &c.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
1	2	8	4	5	6	7	8	9	10	11	12	13	14
R. 137	39 12 0	..	974 4 8	..	33 15 8	77 0 11	113 5 1	472 5 11	1,710 4 3	1,524 3 11	435 12 6	1,959 16 5	3,070 0 8
R. 207	3,957 13 7	..	..	..	21 10 11	467 0 4	141 13 2	90 18 2	4,679 5 2	868 17 6	933 1 5	1,801 18 11	6,481 4 1
R. 274	..	..	..	..	167 4 7	..	..	..	167 4 7	47 14 2	10 9 2	107 5 8	225 7 11
R. 434	..	..	..	..	28 17 0	..	..	..	28 17 0	96 13 4	10 12 4	107 5 8	186 2 8
R. 496	..	..	..	..	..	8 8 8	..	..	8 8 8	9 6 11	..	9 6 11	17 15 7
R. 637	..	..	..	..	..	..	..	1,088 18 4	1,088 18 4	139 8 4	23 17 6	163 5 10	1,252 4 2
Pay Roll Tax	..	..	..	..	..	13 7 3	..	..	13 7 3	..	269 17 4	269 17 4	269 17 4
Fire-fighting and Patrol Administration	..	..	..	..	..	..	..	..	..	36 18 11	..	36 18 11	36 18 11
Depot Stock and Drum Accounts	8,997 5 7	..	974 4 8	..	251 17 2	565 17 2	254 18 3	1,652 2 5	7,996 5 3	2,812 11 0	1,683 10 3	4,496 1 3	12,192 6 6
KILCOY WORKING PLAN AREA.													
R. 24	..	1,576 6 11	..	..	11 13 7	345 5 1	1 18 11	96 0 11	2,019 11 10	589 14 3	399 10 1	989 4 4	3,008 16 2
R. 97	..	..	..	..	4 6 0	267 13 8	..	0 4 5	866 19 1	5 10 9	243 7 1	5 10 9	18 16 7
R. 138	594 19 10	..	..	..	13 1 3	276 10 1	64 12 4	251 0 11	1,174 18 11	381 12 8	324 5 0	924 19 9	1,401 18 10
R. 154	104 7 1	..	..	..	222 2 7	697 10 11	27 18 4	183 7 0	3,685 2 4	437 16 10	902 1 5	782 1 10	1,937 0 9
R. 220	2,258 10 8	..	..	..	124 17 11	480 2 3	9 13 5	183 3 10	1,790 18 5	1,653 10 0	148 4 11	2,555 11 5	6,540 13 9
R. 221	..	..	..	..	29 14 6	1,166 2 3	81 7 3	754 19 0	6,372 17 5	200 5 0	1790 18 5	348 9 11	971 7 4
R. 298	3,575 3 1	..	..	..	11 11 7	216 5 1	9 0 0	9 0 0	9,352 11 2	3,375 7 6	1,790 18 5	5,168 5 11	11,544 14 0
R. 355	..	..	..	..	..	534 7 11	12 16 1	88 16 8	971 0 8	420 18 7	255 17 5	676 16 0	1,504 13 1
R. 355	..	..	..	..	..	..	..	..	..	..	..	..	..
R. 424/7	..	..	..	..	..	..	..	..	..	..	..	..	..
Pay Roll Tax	..	..	..	..	..	..	..	..	..	..	..	..	..
Experiments	..	..	..	..	..	..	..	..	..	..	..	..	..
Fire-fighting and Patrol Administration	..	..	..	..	..	60 9 11	..	..	60 9 11	107 11 0	..	107 11 0	60 9 11
Depot Stock and Drum Accounts	6,633 1 11	1,576 6 11	1,705 10 11	7 0 0	417 7 5	4,045 12 6	206 16 10	1,860 8 9	16,452 5 3	7,033 5 0	4,774 15 1	11,808 0 1	28,290 5 4
MANY PEAKS WORKING PLAN AREA.													
R. 20	..	837 7 7	..	..	1 3 6	2,190 18 8	..	..	3,029 9 9	825 4 5	468 7 11	1,296 11 11	1 14 5
R. 25	..	..	..	..	..	..	..	..	..	..	..	..	..
R. 55	..	..	..	..	..	..	..	..	..	..	..	..	..
R. 87	854 6 3	..	246 12 2	..	95 16 2	149 7 3	73 18 7	934 2 7	2,258 6 10	915 12 6	307 14 8	1,223 7 2	3,481 14 0
R. 91	3,273 5 4	..	0 9 0	..	1 2 5	245 8 2	76 4 8	60 13 11	3,757 17 3	1,837 6 11	736 5 7	2,573 12 6	6,331 9 9
R. 107	..	..	..	..	..	..	..	..	..	..	..	..	..
R. 176	..	..	..	..	..	..	..	..	..	..	..	..	..
R. 179	..	..	..	..	..	..	..	..	..	..	..	..	..
R. 193	..	..	..	..	..	..	..	..	..	..	..	..	..
R. 276	..	..	..	..	..	..	..	..	..	..	..	..	..
Pay Roll Tax	..	..	..	..	..	..	..	..	..	..	..	..	..
Administration	..	..	..	..	..	..	..	..	..	..	..	..	..
Fire-fighting and Patrol Administration	..	..	..	..	..	..	..	..	..	..	..	..	..
Experiments	..	..	..	..	..	..	..	..	..	..	..	..	..
Depot Stock and Drum Accounts	4,127 11 7	837 7 7	869 13 2	62 17 5	98 2 1	2,803 17 3	172 0 5	1,488 15 8	10,280 5 2	4,385 1 11	1,041 11 6	6,326 13 5	16,556 18 7

APPENDIX H—continued.

Reserve.	Reforestation.						Surveys.	Protection, Fire-fighting, Fear Clearing, &c.	Maintenance of Capital Improve-ments.	New Construction of Nurseries, Buildings, &c.	Overhead Expenses.			Total Overhead.	Reserve Total.
	Plantations.	Natural Regeneration.	Nursery Working and Maintenance.	Forest Experiment.	Total of Columns 2-9.						Stores, Fodder, Supervision, &c.	Holidays, Wet Time, &c.	Total Overhead.		
					£	s. d.										£	s. d.
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
	£	£	£	£	£	£	£	£	£	£	£	£	£		
R. 135	12,511 10 9	..	1,445 3 7	..	319 8 2	1,037 2 0	298 14 4	2,408 0 11	18,019 19 9	7,813 12 5	4,043 15 9	11,857 8 2	29,877 7 11		
R. 258	1,611 12 10	..	..	..	841 6 8	125 0 10	26 1 7	41 19 1	1,805 9 2	482 14 0	533 0 9	1,015 14 9	341 6 8
R. 274	6,179 2 11	..	457 3 9	..	0 14 10	699 5 4	613 6 6	1,637 1 11	9,927 2 8	3,698 8 7	1,995 6 5	5,693 15 0	2,821 3 11		
R. 435	..	..	..	..	41 2 3	..	..	..	9,927 2 8	..	1,063 6 11	1,063 6 11	15,320 17 8
Pay Roll Tax	..	..	..	..	..	..	..	..	411 1 8	..	..	..	411 1 8
Fire-fighting and Patrol	..	..	..	..	..	..	..	..	837 1 0	..	..	..	837 1 0
Experiments	..	..	..	..	..	..	..	..	..	..	..	..	887 7 6
Administration	..	..	..	..	..	..	..	..	..	..	..	..	587 7 6
District Stock and Drum Accounts	20,302 6 6	..	1,902 7 4	837 1 0	702 11 11	2,272 9 10	938 2 5	4,087 1 11	31,042 0 11	12,649 3 10	7,695 9 10	20,284 13 8	51,326 14 7		
MARY VALLEY WORKING PLAN AREA.															
Poona	1,941 9 6	1,782 19 5	496 19 3	90 7 9	1,105 16 0	8,103 9 0	134 18 4	3,942 13 8	17,598 12 11	13,797 12 4	4,015 1 5	17,812 13 9	35,411 6 8		
R. 1	..	..	..	..	1,105 16 0	734 9 3	24 3 0	3,642 5 7	7,945 2 7	3,416 11 2	1,347 10 11	4,764 2 1	12,709 4 8
R. 5	..	..	..	..	..	13 10 6	..	..	13 10 6	4 10 3	..	4 16 3	18 6 3
R. 12	..	372 10 10	..	..	..	1,149 6 0	17 3 4	39 6 2	1,578 6 4	621 17 0	310 8 2	932 5 2	2,510 11 6
R. 27	..	166 2 6	..	..	..	792 17 2	4 17 0	2 7 6	995 18 2	105 4 7	..	105 4 7	1,101 2 9
R. 50	..	88 17 9	..	..	..	983 7 0	53 8 5	2 17 8	1,296 4 11	673 1 8	262 8 9	935 10 5	2,231 15 4
R. 59	..	..	..	..	..	..	..	..	2 17 8	0 1 8	..	0 1 8	2 19 4
R. 270	..	..	..	..	..	..	..	..	712 6 8	64 15 11	..	64 15 11	777 2 7
R. 278	..	..	..	..	..	..	..	..	..	0 1 0	..	0 1 0	0 10 8
R. 309	..	..	..	..	..	..	..	..	..	0 1 0	..	0 1 0	0 10 8
R. 417	..	..	..	..	..	..	..	..	2,906 6 4	2,052 13 1	950 4 8	3,002 17 9	5,909 4 1
R. 450	..	..	..	..	..	..	..	..	39 9 5	5 7 6	..	5 7 6	5 7 6
R. 432	..	..	..	..	..	..	..	..	1,173 13 9	356 8 3	283 12 9	640 1 0	1,813 14 9
R. 523	..	..	..	..	..	..	..	..	..	0 0 6	..	0 0 6	0 0 6
R. 524	..	..	..	..	..	..	..	..	342 10 4	..	..	342 10 4	342 10 4
Pay Roll Tax	..	..	..	..	..	..	..	..	..	..	..	..	860 16 2
Fire-fighting and Patrol	..	..	..	..	..	..	..	..	501 19 0	..	..	..	501 19 0
Experiments	..	..	..	..	..	..	..	..	..	..	..	..	90 7 9
Administration	..	..	..	..	..	..	..	..	..	..	..	..	694 8 6
Depot Stock and Drum Accounts	1,941 9 6	1,782 19 5	496 19 3	90 7 9	1,105 16 0	8,103 9 0	134 18 4	3,942 13 8	17,598 12 11	13,797 12 4	4,015 1 5	17,812 13 9	35,411 6 8		
NORTH COAST WORKING PLAN AREA.															
R. 60	..	145 2 5	..	..	..	644 6 6	4 11 3	7 11 11	794 0 2	66 5 0	170 18 10	237 3 10	1,031 4 0
R. 108	..	..	..	..	..	493 1 11	103 15 4	..	534 9 2	49 7 1	39 15 5	139 2 6	673 11 8
For 188 Durundur	108 10 1	..	..	..	..	34 14 3	..	..	148 4 4	24 5 10	5 7 11	29 13 9	172 18 1
R. 173	..	..	..	..	..	1,818 15 0	85 17 6	343 16 8	3,373 5 3	565 12 6	679 1 18	1,244 14 2	4,617 19 10
R. 219	..	1,124 15 9	..	..	..	752 2 10	..	..	853 5 8	44 1 2	195 17 1	239 18 3	1,093 3 6
R. 218	..	..	..	..	..	265 14 7	279 18 5	70 15 8	616 8 8	93 9 0	138 9 5	231 18 5	848 7 1
R. 218	..	..	..	..	..	1,234 3 9	58 7 10	1,054 9 1	2,578 8 0	850 17 8	520 5 11	1,371 3 7	3,949 11 7
R. 220	..	..	..	..	..	645 12 5	1 10 8	..	1,102 16 7	546 3 10	365 3 0	911 6 10	2,014 3 5
R. 421	..	..	..	..	..	..	..	..	..	0 0 6	..	0 0 6	0 0 6
R. 445	..	..	..	..	..	..	..	..	1,418 15 0	467 6 8	465 12 8	994 2 4	2,352 17 4
R. 541	..	..	..	..	..	860 9 5	71 12 6	472 12 9	3,345 1 6	1,764 13 5	683 12 0	2,453 5 5	5,798 6 11
R. 581	..	..	..	..	..	495 19 1	372 9 11	541 17 1	9,899 9 4	3,927 0 4	2,068 13 5	5,996 13 9	15,896 3 1
R. 639	..	..	..	..	..	1,784 6 4	1,766 17 11	2,125 15 9	9,899 9 4	5,888 1 5	2,068 13 5	1,110 17 6	2,990 0 5
R. 686 and R. 686	..	..	..	..	..	34 19 10	2 11 0	1,826 6 9	1,879 2 11	588 1 5	1,880 10 8	2,595 3 11	10,677 4 5
R. 688	3,814 18 0	..	..	..	..	3,286 11 1	231 4 4	378 11 0	8,082 0 6	1,214 13 3	1,380 10 8	2,595 3 11	10,677 4 5
R. 809	..	..	..	..	..	..	..	..	4 4 10	329 0 3	212 2 10	541 3 1	1,358 7 2
Pay Roll Tax	..	..	..	..	..	..	..	..	817 4 6	..	..	1,230 2 2	1,230 2 2
Fire-fighting and Patrol	..	..	..	..	..	..	..	..	..	..	..	..	875 3 11
Administration	..	..	..	..	..	..	..	..	..	..	..	..	9 10 2
Experiments	..	..	..	..	..	..	..	..	..	..	..	..	806 18 2
8,924 5 2	1,694 5 0	1,019 1 0	811 18 6	1,027 4 5	13,763 2 11	3,104 3 9	6,839 17 9	37,123 18 6	19,351 17 5	10,566 5 4	8,785 12 1	56,475 15 11			

APPENDIX H—continued.

Reserve.	Reforestation.				Surveys.	Protection, Fire-fighting, Pear Clearing, &c.	Maintenance of Capital Improvements.	New Construction of Nurseries, Buildings, &c.	Total of Columns 2-9.	Overhead Expenses.		Total Overhead.	Reserve Total.
	Plantations.	Natural Regeneration.	Nursery Working and Maintenance.	Forest Experiment.						Stores, Fodder, Supervision, &c.	Holidays, Wet Time, &c.		
1	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
	1,024 12 2	155 0 8	124 7 2	7 7 7	19 13 3	7 8 0	66 7 4	1,290 18 0	387 3 5	261 1 10	648 5 3	1,939 3 3	
R. 185	158 18 10	..	..	..	55 10 8	4 16 4	280 1 9	642 14 9	184 4 8	63 4 2	197 8 10	840 3 7
R. 191	..	..	..	..	7 7 8	..	..	297 6 9	63 14 1	92 11 2	156 11 12	454 0 3
R. 194	212 16 3	..	..	..	65 1 7	10 8 11	..	862 8 6	66 8 8	98 5 5	156 18 8	406 8 8
R. 310	..	..	..	..	9 5 2	5 7 8	8 3 3	862 8 6	273 6 0	185 17 4	457 3 10	1,441 12 4
R. 318	154 14 0	..	..	..	804 18 5	..	..	31 5 8	..	117 16 2	..	1,171 16 2
Pay Roll Tax	..	..	..	..	31 5 8	..	..	54 14 7	..	..	..	31 5 8
Fire-fighting and Patrol	..	..	..	..	..	..	..	..	..	..	..	54 14 7
Administration	..	..	..	..	..	..	..	..	..	..	..	376 6 2
Depot Stock and Drum Accounts	..	..	..	..	..	..	..	..	1,404 9 9	..	..	1,404 9 9
	1,406 7 3	310 3 8	124 7 2	54 14 7	983 17 8	37 0 11	373 12 4	3,306 15 11	2,705 13 8	723 16 1	3,429 9 4	6,786 5 3	

NORTH QUEENSLAND WORKING PLAN AREA.

ROCKHAMPTON WORKING PLAN AREA.

R. 20	..	..	2 8 2	..	..	..	..	632 4 7	288 10 2	107 4 6	345 14 8	977 19 8
Pay Roll Tax	..	..	..	..	..	..	..	..	..	..	..	19 11 7
Administration	..	..	..	..	..	..	..	..	..	..	..	7 15 2
Depot Stock	..	..	..	..	..	..	..	..	799 5 10	..	799 5 10	799 5 10
	..	..	2 8 2	..	..	..	..	632 4 7	1,045 11 2	126 16 1	1,172 7 8	1,804 11 10

WARWICK WORKING PLAN AREA.

R. 263	1,028 10 9	..	337 1 7	..	14 16 9	1,445 7 11	303 12 7	3,369 12 3	1,023 3 5	669 2 4	1,697 5 9	5,066 1 0
R. 399	..	..	..	..	0 16 9	..	..	0 16 9	..	..	..	0 16 9
R. 444	..	..	..	..	..	..	..	457 4 0	311 0 8	137 15 7	448 16 3	906 0 3
R. 574	..	..	..	..	..	..	..	839 18 4	269 6 4	136 10 5	405 16 9	1,245 15 1
Pay Roll Tax	..	..	..	..	..	..	..	..	..	..	..	152 4 3
Experiments	..	..	..	..	..	..	..	79 18 4	..	..	..	79 18 4
Fire-fighting and Patrol	..	..	..	..	..	..	..	32 4 10	..	..	..	32 4 10
Administration	..	..	..	..	..	..	..	..	201 5 1	..	201 5 1	201 5 1
Depot Stock and Drum Accounts	..	..	..	..	..	..	..	..	984 17 8	..	984 17 8	984 17 8
	1,026 10 9	787 6 4	337 1 7	79 18 4	15 13 6	1,507 5 5	415 12 11	4,779 14 6	2,794 13 2	1,095 12 7	3,890 5 9	8,670 0 3
Grand Totals	84,457 16 1	25,583 1 10	14,478 9 2	4,109 3 7	5,921 12 8	95,234 14 6	10,597 16 11	273,960 8 9	136,550 14 6	65,892 0 0	202,442 14 6	476,403 3 3

Miscellaneous—

Pay Roll Tax	..	..	..	..	..	..	..	..	..	..	..	..
Head Office Administration	..	..	..	..	..	..	..	..	..	..	..	..
Experiments	..	..	..	..	..	..	..	..	..	..	..	190 9 2
Radio Trials	..	..	..	..	..	..	..	..	..	..	..	303 1 3
Fares and Freights	..	..	..	..	..	..	..	..	..	..	..	2 16 2
Cartage	..	..	..	..	..	..	..	..	..	..	..	223 18 7
Depot Stock and Drum Accounts, Ipswich Road	..	..	..	..	..	..	..	..	..	..	..	4,156 19 10
Storeroom and Residence, Rocklea	..	..	..	..	..	..	..	..	..	..	..	315 0 1
Collection and Storage of Seed	..	..	..	..	..	..	..	..	..	..	..	314 8 0
Storeroom Expenses	..	..	..	..	..	..	..	..	..	..	..	35 6 1
Stores Suspense	..	..	..	..	..	..	..	..	..	..	..	1,315 17 1
Wages, Store	..	..	..	..	..	..	..	..	..	..	..	410 14 11
Workers' Compensation	..	..	..	..	..	..	..	..	..	..	..	16,903 12 4
	..	..	..	..	..	..	..	..	..	..	..	407 16 9
	..	..	..	..	..	..	..	..	..	..	..	9,381 0 3
	..	..	..	..	..	..	..	..	..	..	..	£510,369 18 9

APPENDIX I.
Areas of Plantations Established.

Working Plan Area.	Reserve No.	Eucalypts. (Acres.)		Softwoods. (Acres.)		Other Species. (Acres.)		All Species. (Acres.)	
		1947-48.	To 30th June, 1948.	1947-48.	To 30th June, 1948.	1947-48.	To 30th June, 1948.	1947-48.	To 30th June, 1948.
		Brisbane Valley and Nanango	283 289 120 379 257 299 151 509 258	2-0	222-0 246-9 75-0 .. 104-5 20-0	199-0 209-0 150-0 .. 165-0 94-0 134-0 75-0 139-0	3,283-7 2,773-5 1,017-8 40-0 1,458-1 1,499-5 282-0 755-9 139-0 9-0
Totals ..	..	2-0	668-4	1,165-0	11,249-5	..	9-0	1,167-0	11,926-9
Fraser Island ..	3	..	161-0	..	749-5	..	..	..	910-5
Kilcoy	893 137 207	.. .. 11-0	142-5 2-5 13-0	.. .. 99-0	1-5 721-2 472-0	.. .. ..	.. .. ..	.. .. 110-0	144-0 723-7 485-0
Totals ..	..	11-0	158-0	99-0	1,194-7	..	..	110-0	1,352-7
Gympie	392 502 393 234 124 242 Pomona	.. .. .. .. .. .. 189-0	.. 60-0 333-0 54-0 325-0	102-0 12-5 270-0 ..	710-5 1,006-2 995-0 ..	.. .. .. .. .. .. ..	.. .. .. .. .. .. ..	102-0 12-5 270-0 189-0	710-5 60-0 333-0 54-0 1,006-2 995-0 325-0
Totals ..	..	189-0	772-0	384-5	2,711-7	..	..	573-5	3,483-7
Kilkivan	355 220 298 154 138	.. .. .. .. ..	8-0 .. 77-4 14-0 5-0	.. 60-4 92-0	127-5 794-8 1,208-8 124-0 185-0	.. .. .. .. ..	.. .. .. .. ..	.. 60-4 92-0	135-5 794-8 1,286-2 138-0 190-0
Totals ..	..	..	104-4	152-4	2,440-1	..	..	152-4	2,544-5
Mackay	12	..	..	..	30-5	..	..	..	30-5
Maryborough ..	915	..	..	76-0	76-0	..	..	76-0	76-0
Many Peaks ..	95 67	.. ..	.. ..	96-0 32-0	1,054-1 32-0	.. ..	.. ..	96-0 32-0	1,054-1 32-0
Totals ..	..	..	..	128-0	1,086-1	..	..	128-0	1,086-1
Mary Valley ..	135 435 256 274	.. .. .. ..	6-0 2-0	466-0 184-5 .. 40-0	5,637-7 2,808-7 134-2 252-1	.. .. .. ..	1-0	466-0 184-5 .. 40-0	5,644-7 2,810-7 134-2 252-1
Totals ..	..	..	8-0	690-5	8,832-7	..	1-0	690-5	8,841-7
North Coast ..	561 589 611 318 583 249 638 158	.. .. .. .. .. .. .. ..	5-0 12-0 377-8 175-0 .. 20-0 .. ..	.. 287-5 246-5 14-5	1,323-0 2,920-5 .. 43-5 246-5 14-5	.. .. .. .. .. .. .. ..	6-7 246-5 14-5	.. 287-5 246-5 14-5	1,334-7 2,932-5 377-8 218-5 .. 20-0 246-5 14-5
Totals ..	..	..	589-8	548-5	4,548-0	..	6-7	548-5	5,144-5
North Queensland ..	185 191 194 310 418	.. .. .. .. ..	.. 51-8 109-5 13-8 ..	49-7	73-5 581-1 22-0 392-9 ..	1-7	16-1 24-8 12-5 360-0 4-0	51-4	89-6 657-7 144-0 766-7 4-0
Totals ..	..	..	175-1	49-7	1,069-5	1-7	417-4	51-4	1,662-0
Warwick	263	..	0-3	79-0	1,213-0	..	18-5	79-0	1,231-8
Experimental Areas									
Imbil	135	..	4-0	..	47-5	..	9-7	..	61-2
Maryborough ..	..	..	..	..	5-0	..	..	..	5-0
Fraser Island ..	3	..	..	..	8-0	..	..	..	8-0
Dalby	4	..	..	..	0-2	..	..	..	0-2
Dalby	93	..	..	..	1-0	..	..	..	1-0
Rockhampton ..	20	..	..	..	7-0	..	..	..	7-0
Gympie	451	..	..	..	17-9	..	..	..	17-9
Bribie Island ..	603	..	..	..	0-7	..	..	..	0-7
Totals ..	..	..	4-0	..	87-3	..	9-7	..	101-0
Grand Totals ..	..	202-0	2,641-0	3,372-6	35,288-6	1-7	462-3	3,576-3	38,391-9

APPENDIX J.—continued.

Areas of Natural Forest Treated—continued.

Working Plan Area.	Reserve No.	Eucalypts. (Acres.)			Softwoods. (Acres.)			Other Species. (Acres.)			All Species. (Acres.)
		Treated 1947-48.	First Treatment 1947-48.	Total as at 30th June, 1948.	Treated 1947-48.	First Treatment 1947-48.	Total as at 30th June, 1948.	Treated 1947-48.	First Treatment 1947-48.	Total as at 30th June, 1948.	
Kilkivan	221	114	..	1,730	..	..	560	..	..	..	2,290
	220	..	..	..	..	..	155	..	..	..	155
	355	..	..	..	..	..	40	..	..	..	40
	26	..	..	..	..	..	150	..	..	..	150
	494	..	..	1,350	..	..	..	..	..	..	1,350
	24/12	4,105	2,337	19,173	..	..	..	..	..	..	19,173
	424/7	..	..	80	..	..	..	..	..	..	80
Totals .. ..	..	4,219	2,337	22,333	..	..	905	..	..	..	23,238
Many Peaks	28	2,150	2,150	6,711	..	..	..	..	..	..	6,711
	150	..	..	1,811	..	..	..	..	..	..	1,811
Totals .. ..	..	2,150	2,150	8,522	..	..	..	..	..	..	8,522
Maryborough	287	..	..	..	..	..	240	..	..	..	240
	435	1,577	..	13,666	..	..	..	..	..	..	13,666
	59	..	..	1,147	..	..	..	..	..	..	1,147
	62	996	716	4,827	..	..	..	..	..	..	4,827
	12	396	..	5,130	..	..	..	..	..	..	5,130
	390	1,951	1,751	15,879	..	..	..	..	..	..	15,879
	8	680	680	12,888	..	..	..	..	..	..	12,888
	27	250	..	7,736	..	..	..	..	..	..	7,736
1	..	..	1,639	..	..	272	..	..	..	1,911	
Totals .. ..	..	5,850	3,147	62,912	..	..	512	..	..	..	63,424
Mary Valley	135	..	..	159	..	..	277	..	..	..	436
	435	..	..	..	..	..	70	..	..	55	125
Totals .. ..	..	..	..	159	..	..	347	..	..	55	561
North Coast	318	17	..	3,730	..	..	..	..	..	..	3,730
	313	..	..	1,824	..	..	..	..	..	..	1,824
	583	..	..	1,455	..	..	..	..	..	..	1,455
	445	..	..	3,612	..	..	..	..	..	..	3,612
	249	..	..	1,299	..	..	..	..	..	..	1,299
	60	140	..	1,410	..	..	..	..	..	..	1,410
	611	..	..	2,223	..	..	..	..	..	..	2,223
	589	..	..	53	..	..	..	..	..	..	53
	108	..	..	1,750	..	..	..	..	..	..	1,750
	173	547	..	2,499	..	..	..	..	..	..	2,499
	531	..	..	295	..	..	..	..	..	..	295
	370	691	282	1,502	..	..	..	..	..	..	1,502
Totals .. ..	..	1,395	282	21,652	..	..	..	..	..	..	21,652
Gympie	393	200	..	3,020	..	..	..	..	..	..	3,020
	234	..	..	1,730	..	..	..	..	..	..	1,730
	502	..	..	1,568	..	..	..	..	..	..	1,568
	627	100	..	2,355	..	..	..	..	..	..	2,355
	700	..	..	3,672	..	..	..	..	..	..	3,672
	124	..	..	770	..	..	..	..	..	..	770
	Pomona	..	..	..	..	..	..	..	..	..	..
Tewantin	..	..	107	..	..	..	..	..	..	107	
Traveston	..	..	200	..	..	..	..	..	..	200	
Totals .. ..	..	300	..	13,422	..	..	..	..	..	..	13,422
North Queensland	191	..	..	..	..	..	..	..	..	53	53
	194	..	..	175	..	..	..	..	..	..	175
	310	..	..	..	..	..	..	..	..	128	128
	418	..	..	..	..	..	..	..	..	43	43
	452	..	..	..	..	..	..	..	..	20	20
	245	..	..	339	..	..	..	..	..	..	339
	243	..	..	1,457	..	..	..	..	..	..	1,457
	185	..	..	..	..	..	..	55	55	55	55
438	800	800	800	..	..	..	..	..	..	800	
Totals .. ..	..	800	800	2,771	..	..	..	55	55	299	3,070
Warwick	444	806	..	2,700	..	..	..	..	..	..	2,700
	574	1,610	..	4,022	..	..	..	..	..	..	4,022
Totals .. ..	..	2,416	..	6,722	..	..	..	..	..	..	6,722
Grand Totals .. ..	..	32,243	16,226	294,369	21,357	13,564	190,324	55	55	460	485,153

APPENDIX K.

Summary of Forest Survey Work—Year ended 30th June, 1948.

Reserve.	Parish.	Area in Acres.
CLASS 1—INSPECTIONS OF VACANT CROWN LAND AND TIMBER RESERVES.		
Woodleigh Holding	Woolmunda	25,000
	Total	25,000
CLASS 2—ASSESSMENT SURVEYS.		
350	Niagara	5,440
344	Kirrama	2,006
353	Ongera (proceeding)	5,000
99, 41	Western Herberton	4,000
30	Riflemead	10,662
6	Garioch	
90, 315	Dulanban (proceeding)	1,600
Portions 130, 191	Alexandra	640
278	Hercules .. .. .	..
Portion 48	King	481
Portion 58, &c.	Traveston	405
Portions 153, 72, 295	Tuchekoi	187
Portions 167v, 990	Noosa	570
Portion 40	Tewantin	290
Portions 231, 27v	Beerwah	230
	Total	31,511
CLASS 3—INTENSIVE CONTOUR AND ASSESSMENT SURVEYS.		
370	Durundur (part)	10,776
809	Samsonvale (part) .. .. .	..
Vacant Land	Conondale	2,000
	Total	12,776

COMPARTMENT, FIREBREAK OR SOIL SURVEYS.

Reserve.	Parish.	Type.	Area in Acres.
14	Hookwood, Wongongera	Compartment ..	28,600
47	Wongongera	ditto	20,166
86	Brownlie	ditto	33,850
434, 274	Conondale	Logging Areas ..	13,700
Vacant Crown Land	Poona	Soils	9,420
124	Glastonbury	Firebreaks .. ..	..
256	Imbil	ditto .. .. .	..
135	Brooloo, Cambroon	ditto .. .. .	..
392	Como	ditto	500
435	Kandanga	ditto .. .. .	..
20	Maryvale	Soils	1,766
	Total		108,002

FOREST INVENTORY SURVEY.

Reserve.	Parish.	Area Stripped. (Acres.)	Plots Dealt With.
14	Hookwood	34,600	158
47	Wongongera	20,166	123
86	Brownlie .. .. .	..	..
16	Ballon	14,000	231
78	Yuleba	12,532	75
328	Yuleba	2,629	17
60	Tchanning	14,054	80
58	Tchanning	12,147	67
124	Glastonbury .. .. .	..	73
242	Widgee .. .. .	..	46
392	Como .. .. .	..	40
135	Brooloo	remeasuring	..
	Total .. .. .	..	910

MISCELLANEOUS SURVEYS.

Reserve and Parish.	Compartment Number.	Logging Area.	Mls. Chs.	Remarks.
589 Beerwah	14-17 ..	Twins	3 40	Compartments
	1, 4, 9, 10, 13	Twins	1 15	Subdivision
	12-17 ..	Wuccum	5 68	Compartments
	4, 6, 8, 9	Wuccum	1 06	Swamp edge
	13 ..	Twins	1 47	Soil type
	9, 10, 13	Twins	8 22	Soil type
	8 ..	Twin	1 32	Soil type
638 Beerwah	9, 13 ..	Twin	6 63	Tracks, roads
	12, 23	Six Mile	9 50	Compartments
	1-9 ..	Six Mile	5 27	Road widths
	..	Burrum	1 60	External Roads
	1-7 ..	Six Mile	16 02	Soil types

APPENDIX K—continued.

Summary of Forest Survey Work—Year ended 30th June, 1948.

MISCELLANEOUS SURVEYS—continued.

Reserve and Parish	Compartment Number.	Logging Area.	Mls. Chs.	Remarks.
611 Beerwah	2 76	Improvements
561 Bribie	1 06	Assessment
370 Durundur	0 62	Lease
Portions 2-10 Bribie	2 16	Soil type
Portion 158 Durundur	1 35	Soil type
120 Neumgna	Pocket, Duck	13 40	Plantation
151 Tureen	West Barker	1 05	Plantation
289 Cooyar	Tarong Road, &c.	3 75	Plantation
299 Avoca	Nanango	3 00	Plantation
329 Avoca	5 00	Fire break
379 Cooyar	Grimstone, Grenning	7 50	Fire break
283 Colinton	Benarkin, Wallaby, &c.	9 77	Fire break, &c.
257 Cooyar	West North Googa	15 06	Fire breaks, &c.
258 Cooyar	Binga	4 77	Fire breaks, &c.
343 Glenbora	0 32	Camp sites
185 Danbulla	0 76	Treated areas
Portion 2 Russell	1 00	Road
220 Kilkivan	3 00	Plantations
221 Kilkivan	0 37	Road
915 Poona	2 40	Plots
298 Gallangowan	5 10	Scrub falling
427 &c., Manumbar	0 50	Roads
138 Manumbar	0 45	Roads
Vacant Crown Land Gregory and Bingera	2 00	Plots

APPENDIX L.

State Forests, Timber Reserves, and National Parks at 30th June, 1948.

L.A.D.	State Forests.			Timber Reserves.			National Parks.		
	No.	Area.		No.	Area.		No.	Area.	
		A.	R. P.		A.	R. P.		A.	R. P.
Atherton	12	49,054	1 30	8	60,509	2 26	5	3,552	2 0
Bowen .. .. .	..	..	..	8	99,020	0 0	35	114,467	0 0
Brisbane	68	201,965	2 14	44	72,573	1 8	38	71,354	0 17
Bundaberg	26	125,911	3 19	26	114,975	1 6	..	..	..
Cairns	7	108,985	0 36	13	444,073	2 0	20	92,300	3 24
Charleville .. .. .	..	..	..	2	20,037	0 0	..	..	..
Charters Towers .. .. .	..	..	..	2	125,550	0 0	..	..	..
Clermont	2	126,500	0 0	2	44,390	0 0	..	..	..
Cloncurry .. .. .	..	..	..	1	4,290	0 0	..	..	..
Cooktown .. .. .	..	..	..	8	623,510	0 0	7	10,691	0 0
Dalby	32	713,163	3 28	13	110,915	2 11	1	13,100	0 0
Gayndah	1	4,790	0 0	14	52,562	0 19	..	..	..
Gladstone	5	35,490	0 0	24	81,843	3 14	4	230	0 0
Goondiwindi	3	109,067	2 0	1	3,170	0 0	..	..	..
Gympie	41	280,870	0 3	24	78,176	2 29	5	922	2 7
Herberton	8	73,648	1 32	8	69,085	1 23	5	3,361	3 28
Ingham	1	43,620	0 0	3	68,890	0 0	3	1,835	0 0
Inglewood	14	185,393	3 35	3	8,397	0 35	..	..	..
Innisfail .. .. .	..	..	..	11	402,082	2 18	20	105,987	1 31
Ipswich	30	160,997	1 24	23	66,337	3 0	2	4,344	0 0
Jundah .. .. .	..	..	..	1	25,600	0 0	..	..	..
Mackay	1	18,450	0 0	19	149,005	0 0	51	144,765	0 8
Maryborough	78	678,429	3 26	30	32,627	3 19	4	8,185	0 0
Monto	8	100,255	3 20	16	161,888	2 32	..	..	..
Nanango	46	217,983	2 34	11	6,260	0 39	1	9,605	2 18
Rockhampton	7	171,068	1 0	15	103,863	2 22	16	2,813	2 0
Roma	10	89,434	3 22	1	8,600	0 0	1	65,000	0 0
Springsure .. .. .	..	..	..	1	20,500	0 0	..	..	..
Stanthorpe	1	6,754	0 0	..	..	..	6	12,604	3 0
St. George .. .. .	..	..	..	1	3,072	0 0	..	..	..
Taroom	3	21,486	0 0	4	33,185	2 0	..	..	..
Toowoomba	21	231,469	1 3	16	28,079	1 19	5	3,552	0 0
Townsville	1	23,123	0 0	2	17,199	1 31	1	60,000	0 0
Totals	426	3,777,913	1 6	355	3,140,271	2 31	230	728,672	1 13

At 30th June, 1948—

	A.	R.	P.
Total Area reserved for State Forests	3,777,913	1 6	..
Total Area reserved for Timber Reserves	3,140,271	2 31	..
Total Area reserved for National Parks	728,672	1 13	..
Total Reservations	7,646,857	1 10	..

APPENDIX M.

Reservations for the year ended 30th June, 1948.

State Forests.—Twenty-four State Forests with a total of 294,018 acres were proclaimed during the year. The largest of these are as follows:—

Acres.		Land Agent's District.
96,335	Reserve 915, Poona, Tahiti, Cowra, Bidwell and Ulirrah	Maryborough and Gympie
89,535	Reserve 174, Boondandilla	Goondiwindi
43,620	Reserve 458, Stone and Ashton and Reserve 23 Ryeburn	Ingham
22,077	Reserve 178, Wilkie	Toowoomba
10,600	Reserve 735, Melcombe	Brisbane
6,054	Reserve 232, Warro	Bundaberg
5,694	Reserve 573, Lockyer	Ipswich
5,080	Reserve 736, Palen	Brisbane
4,344	Reserve 959, Tewantin	Gympie
2,585	Reserve 958, Gundiah	Maryborough
1,405	Reserve 175, Braemar and Weranga	Dalby
1,183	Reserve 179, Brigalow	Toowoomba
900	Reserve 957, Tiaro and Young	Maryborough

29,346 acres were added to existing reserves.

Timber Reserves.—At 30th June, 1948, the number of Timber Reserves is 355 as against 346 at 30th June, 1947. Seventeen new areas with a total of 99,495 acres were reserved, the largest being—

Acres.		Land Agent's District.
39,040	Reserve 177, Durabilla	Dalby
33,345	Reserve 37, Cloncosse	Monto
7,501	Reserve 67, Brovinia	Gayndah
4,218	Reserve 66, Koko	Dalby
3,994	Reserve 59, Bollon and Reserve 296 Nudley	Dalby
3,664	Reserve 210, Beninbi	Gayndah
2,510	Reserve 60, Binkey	Dalby
2,035	Reserve 962, Noosa	Gympie
1,815	Reserve 687, Maroochy	Brisbane

37,387 acres were converted to State Forests, 13,580 acres converted to National Parks and 530 acres were released.

National Parks.—Five new National Parks with a total of 21,057 acres were proclaimed during the year, the largest of these being—

Acres.		Land Agent's District.
12,980	Reserve 737, Melcombe and Palen (Mt. Barney)	Brisbane
7,380	Reserve 862, Mungore (Mt. Walsh)	Maryborough
600	Reserve 738, Palen (Mt. Lindsay)	Brisbane

49 acres were added to existing reserves.

1ST JULY, 1947, TO 30TH JUNE, 1948.

STATE FORESTS.		No.	A.	R.	P.
At 1st July, 1947		422	3,457,231	1	33
Proclaimed 1st July, 1947, to 30th June, 1948		24	294,018	0	20
V.C.L. added to existing reserves			29,346	1	33
		446	3,780,596	0	6
Recomputation of areas			2,682	3	0
Reserves rescinded and amalgamated		20			
Total at 30th June, 1948		426	3,777,913	1	6

TIMBER RESERVES.		No.	A.	R.	P.
At 1st July, 1947		346	3,092,274	1	21
Proclaimed 1st July, 1947, to 30th June, 1948		17	99,495	0	10
		363	3,191,769	1	31
6 Reserves converted to State Forests					
1 Reserve converted to National Park			37,387	1	34
1 Reserve cancelled			13,680	0	0
			530	1	6
		8	51,497	3	0
Total at 30th June, 1948		355	3,140,271	2	31

NATIONAL PARKS.		No.	A.	R.	P.
At 1st July, 1947		225	707,566	1	30
Proclaimed 1st July, 1947, to 30th June, 1948		5	21,056	3	23
V.C.L. added to existing reserves			49	0	0
		230	728,672	1	13
Total Reservations at 30th June, 1948			7,646,857	1	10

APPENDIX N.

Expenditure Surveys, year ended 30th June, 1948.

PARTICULARS OF SURVEY—

Harvesting and Marketing Project—

	£	s.	d.
Class 2 Survey T.R. 809, Samsonvale	56	4	6
Forest Inventory Survey, Brisbane Valley	155	1	6
Forest Inventory Survey, Dalby	3,835	6	5
Resumption Survey, Dalby	4	5	2
Class 2 Survey R. 434, Conondale	9	10	10
Forest Inventory Surveys, Kilkivan	74	12	8
Miscellaneous Survey R. 505	4	13	0
Survey—Granite Creek Road	184	5	2
Class 2 Survey—Mary Valley	193	3	9
Class 3 Survey—V.C.L., Conondale	158	9	10
Firebreak Survey and Road Survey—Mary Valley	78	13	2
Class 3 Survey R. 370, Durundur	130	8	9
Class 2 Survey R. 344, Kirrama	451	1	7
Class 2 Survey R. 350, Niagara	1,504	2	2
Class 2 Survey R. 30, Garioch	2,078	1	4
Class 2 Survey R. 6, Dulanban	52	10	0
Class 2 Survey R. 343, Ongera	1,884	15	11
Miscellaneous Surveys, North Queensland	16	8	6
Miscellaneous Surveys, Warwick	53	8	7
Forest Inventory Survey R. 263, Pikedale	27	10	0
Compartment Survey—North Head	2	6	8
	<hr/>		
	£10,954	19	6
	<hr/>		
Reforestation Branch Projects—			
As detailed in Appendix H	£5,921	12	8
	<hr/>		
Total Expenditure	£16,876	12	2
	<hr/>		

APPENDIX O.

Distribution of Personnel, 30th June, 1948.

Salaried Officers	262
Other Employees	1,612
	<hr/>
	1,874
	<hr/>