QUEENSLAND.

ANNUAL REPORT

OF THE

SUB-DEPARTMENT OF FORESTRY

FOR THE

YEAR 1954-55.

I

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Outsize Eucalypts in a Virgin Stand on a State Forest in the Woodford District. After logging, such areas are subjected to intensive silvicultural treatment.

Report of the Director of Forests for the Year ended 30th June, 1955.

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INTRODUCTION.

During the year the Department functioned smoothly and efficiently and advances can be recorded in a number of directions.

A concerted effort was made to examine the results of silvicultural research work and routine practice with the object of improving current procedures.

For the North Queensland rain forests a new set of rules covering the marking for logging and silvicultural treatment was formulated. These were put into effect on a number of State Forests. It is unfortunate that much of North Queensland that must be devoted to the growth of the valuable North Queensland timbers has not yet been permanently reserved for timber production by gazettal as State Forest. This limits the general application of sound silvicultural practice. The Department cannot initiate silvicultural work on areas that may later be diverted to other forms of land use. The practical recognition of this fact by the gazettal of adequate State Forest areas in North Queensland is essential if the Department is to make effective use of North Queensland forests—and to perpetuate the important sawmilling industry in that part of the State.

In South Queensland a critical review was made of the procedures to be followed in establishing and managing Hoop Pine plantations, and the available knowledge has been condensed into a booklet on Hoop Pine Technique, for the guidance of all officers dealing with this species.

Cypress Pine procedures have also been subject to review and revised rules for marking for logging, and silvicultural treatment have been issued.

It is the aim of the Department to avoid any lag in applying the results' of research work in practice and these revisions of procedures should result in increased efficiency of forestry operations in the forest types dealt with.

On the marketing side, the extremely wet conditions that prevailed throughout most of the year greatly hindered logging. This is not without compensation as there is considerable difficulty in preventing the overcutting of Queensland's inadequate forest resource.

The relative pricing of Crown log timber was improved during the year by the gazettal of new log prices for the Mackay District. The prices were based on mill studies, and are now much more realistic than the previous prices. It is the aim of the Department to price Crown log timber so that there is a sound relationship from district to district, bearing in mind the desirable directions of timber movement. In addition, every endeavour is made to have a sound relationship between the price of log timber and sawn timber so that the sawmiller can secure a reasonable recompense for his part in production; and also to return to the State, and hence the people of Queensland, the fair value of the product of the forest.

Ringbarking of useful or potentially useful timber on leasehold lands has for a long time been a major concern of the Department. During the year there were several serious cases of ringbarking without permits, or in violation of the conditions of the permits. These occurred mainly in districts in which reliance for the production of local supply must be largely on timber from leasehold lands. Queensland is so short of timber that it cannot afford indiscriminate waste of either the present or future crop. It is hoped that interdepartmental investigations initiated by the Board will result in an improvement in the control of ringbarking. It is essential that ringbarking on leasehold areas. Furthermore, the preservation of selected stems of commercial species from the regrowth following ringbarking on areas that should contribute to the State's future timber needs, is a matter of grave importance. To this end, the appointment of a number of officers to deal specifically with ringbarking has been recommended.

The importance to the State of maintaining timber production on areas other than permanent forestry reservations, which are being used for the dual purpose of timber production and grazing, is not sufficiently recognised. This applies particularly to hardwood and Cypress Pine areas. Only 60 per cent. of the hardwood cut on Crown land comes from permanent reservations. The respective figure for Cypress Pine is 55 per cent. Furthermore, about two-thirds of the hardwood, and one-half of the Cypress Pine cut in the State comes from private lands, which are being very heavily logged with little concern for future timber production. The timber output from privately owned areas must progressively decrease, and, even at present, the State is short of timber.

This emphasises the grave need for a careful husbandry of all timber that vests in the Crown. An important part of this resource is on leasehold lands. The co-operation of Government Departments and of the leaseholders themselves is essential if the best use is to be made of the joint resources in the interests of the State. Ringbarking on these areas must be properly practised and controlled.

REFORESTATION.

The year ended 30th June, 1955, was characterised by abnormal weather conditions over practically the whole State. The following brief notes for each month, extracted from Meteorological Summaries issued by the Weather Bureau, are of interest—

1954.

- July, 10th-13th—Cyclones, accompanied by heavy rains and gale force winds, over South-Eastern District. 70 m.p.h. winds along the coast south from Bundaberg did much damage and had a bushfire scorching effect over thousands of acres of Eucalypt forest.
- August—District rainfall averages were mainly 100 to over 200 per cent. above normal. On the 12th, Brisbane's maximum temperature of 50.4 degrees was the lowest on record.
- September—Severe hailstorms from Brisbane to Bundaberg, with an earth tremor in a wide area of South-West Queensland.
- October—District rainfall averages 100 per cent. to 400 per cent. above normal with the Peninsula North receiving the highest figures since 1892, more than 1,200 per cent. above normal.

November-Severe thunderstorms accompanied by torrential rain over the greater part of the State.

December—Severe electrical storms on the South-Eastern coastal region, with heat wave temperatures in the Western half of the State.

1955.

- January—Heat wave temperatures prevailed in the Western half of the State, with severe thunderstorms along the coastal strip.
- February—Torrential rains in Northern and Central Queensland with falls of up to 45 inches in the first 12 days of the month.
- March—Two cyclones crossed the coast during this month. The first crossed between Carmila and Mackay on the 7th and the second 35 miles north of Bundaberg on the 27th. Heavy flooding occurred in all affected areas, with severe flooding in the Mary and Brisbane Rivers. Flooding of the Mary River caused much damage to the towns of Gympie and Maryborough whilst a steel and concrete railway bridge was destroyed in the Brisbane Valley.

April—Rainfall in most parts of the State well above average.

May-General heavy rains with most centres recording record May totals.

June-Rainfall at most centres above average.

As an indication of the abnormal rainfall received during the year the following figures for Yarraman and Beerwah—the centres of large reforestation operations—are quoted—

								3	arraman.	Beerwah
July									612	1,651
August									316	336
September				•					218	245
October			••				••		495	782
November									451	459
December			••						145	304
January			••		• •				404	580
February							• •		484	614
March			••				• •		912	2,485
April									501	887
May					••				564	777
June					••				181	160
									5,283	9,280
Average fo	r 20	VARTS				,,	, ,		$29 \cdot 9$	61.5

Although the year has been most favourable as regards rainfall, and the resulting almost nil expenditure on fire patrol and fire fighting, the high rainfall and gale force winds have resulted in delayed and poor scrub burns, prolific weed growth on all plantation areas, heavy expenditure on the straightening and firming of wind-blown trees and extensive damage to roads and bridges. The amount of wet time has also greatly reduced the amount of effective work that should have been carried out in plantation and forest areas. Despite these difficulties a larger programme of work than for 1953-54 was carried through. Details of the work performed are as follows :

				1953-54. Acres.		1954–55. Acres.
Area of natural forest treated		••		25,921	••	28,792
Area of plantation established				5,092	••	5,095
Area covered in pruning				7,980		8,038
Area tended				33,471	••	40,095
Area thinned merchantably	• •	 ·		1,808	••	2,500
Area thinned unmerchantably			••	1,683	••	1,932

The demand for plantation thinnings has remained buoyant throughout the year and removals are as follows :

					1953 - 54.		1954 - 55.
					Sup. Ft.		Sup. Ft.
Native Conifers					7,346,927		9,080,019
Exotic Conifers					4,098,780	••	4,999,186
Other Species	••	• •	••	••	9,515	•••	31,886
					11,455,222		14,111,091

It will be noted that the total cut has increased by 2,656,000 super. feet on that for 1953-54 and, of this, the increase in the cut of native conifers has been responsible for 1,734,000 super. feet. Total cut of plantation thinnings to date now becomes 83,173,627 super. feet.

Plantations—Appendix I. shows, by districts and species, the areas planted from 1st April, 1954, to 31st March, 1955. The total area planted for the year was 5,094.8 acres made up as follows:

Aoros

Native Conifer Exotic Conifer	•			,					$1,556 \cdot 1$ $3,516 \cdot 1$
Broadleaved sp	pecies	· · ·		••	 • • •	 • •	•••		20.0
Eucalypts	••		••	• •	 	 ••		••	2.6
•								-	5,094.8
								-	

The total area of effective plantation is now 67,273.3 acres and of this 37,486.6 acres comprise native conifers and 25,647.5 acres exotic conifers, the balance is made up of other species, chiefly Eucalypts and Silky Oak.

As mentioned earlier in the report, abnormal weather conditions rendered the burning of felled areas most difficult and in many cases the poor burns secured resulted in high stacking and burning costs. The difficulty of securing sufficient contractors for scrub and forest felling also compelled the use of some inexperienced day labour fellers, with resultant higher felling costs than usual.

Planting conditions, generally, were favourable and very little refilling was called for in respect of new areas. The winter 1955 planting at the Toolara State Forest was delayed, as all available labour was concentrated on the straightening and firming of young plants—1 to 3 years of age—which had been affected by the heavy winds of March and April.

Heavy rat damage was sustained in the Hoop Pine plantations on various reserves in the Brisbane Valley during the winter of 1954 and approximately 140,000 plants were required as refills on these areas.

Despite the tending of over 40,000 acres of plantations, the abnormal season has been responsible for an unprecedented growth of weeds and at the close of the report period many areas were badly in need of further tending. The growth of lantana in the thinned Hoop Pine areas has been phenomenal. Another plantation weed which has made exceptional growth, and which has spread over some 1,500 acres of Hoop Pine plantation in the Brisbane Valley, is the Mexican Rubber vine (*Araujia albens.*) The vine has been located as scattered occurences in all Hoop Pine planting areas and every effort is being made in these centres to prevent the vine assuming pest proportions. Investigations into the control of the vine, using selective weedicides, are in progress.

Good progress has been made with pruning and during the year some 8,038 acres o plantations were covered. Details are as follows:

First operation	Second operation 533.5 Third operation								Acres.	
Third operation 911.0 i Fourth operation </th <th>Third operation </th> <th>First operation</th> <th></th> <th></th> <th></th> <th></th> <th> </th> <th> </th> <th> 1,931</th> <th></th>	Third operation	First operation					 	 	1,931	
Fourth operation	Third operation	Second operation	••			• •	 	 	533-5	
Combined second and third operations	Combined second and third operations	Third operation					 	 	911.0	1
Company Cooper and Transfer Francisco Cooperation States and Coopera	Combined third and fourth operations	Fourth operation			• •		 ·	 ••	4,131.5	
490.5		Combined second and	third o	peratio	ns		 	 	100-6	۰.,
Combined third and fourth operations		Combined third and f	ourth o	, peratio	ns	• •	 	 	430.5	

In addition, 3,102 acres of plantations were covered for the removal of epicormic shoots.

Thinning removals totalled 14,110,000 superficial feet and unmerchantable thinnings were applied to 1,932 acres of exotic pines.

Seed Collection.—(A) Araucaria cunninghamii—No collection of Hoop Pine seed was possible during the year.

Stocks held in the Departmental cold stores at Rocklea are being subjected to further germination tests and, from results to date, it would appear that the average drop in viability will be less than 5 per cent.

Collected 1953.	Collected 1950.
L.G.C. Amount.	L.G.C. Amount.
lbs.	lbs.
111.1 = 20 per cent 5,739	
, 20-30 per cent.	Average L.G.C. of
30-40 per cent 10,734	15 per cent 7,000
40-50 per cent	
50 per cent. + 5,463	

An average annual sowing of Hoop Pine absorbs just over 8,000 lbs. of seed, so that stocks on hand are sufficient, assuming no appreciable drop in viability, for at least 7 years.

(B) Pinus Species.—The total quantity of Pinus seed collected from our plantations during the year was 330 lbs., and is considerably less than the 1953-54 collection. This can be attributed to the fact that a surplus collection of P. elliottii was made the previous year and sufficient stocks are held to meet expected requirements.

The second se	11		1	1			+ 1
Details of c	ollect	tion ai	re sho	wn by	specie	es :—	
Pinus elliottii							 250 lb. including 93 lb. from select trees
' Pinus taeda		• •		·	• •		 15 lb. all from select trees
Pinus patula		••				• •	 45 lb. all from selected trees .
Pinus radiata							
Pinus longifolia			•••			• • •	 10 lb. all from selected trees
and the second second							والممود المحاف أوالي والمراجع المحاف

Subsequent to a poor yield, much lower than anticipated, from select trees of P radiata; efforts are being made to arrange further collection from trees of good form.

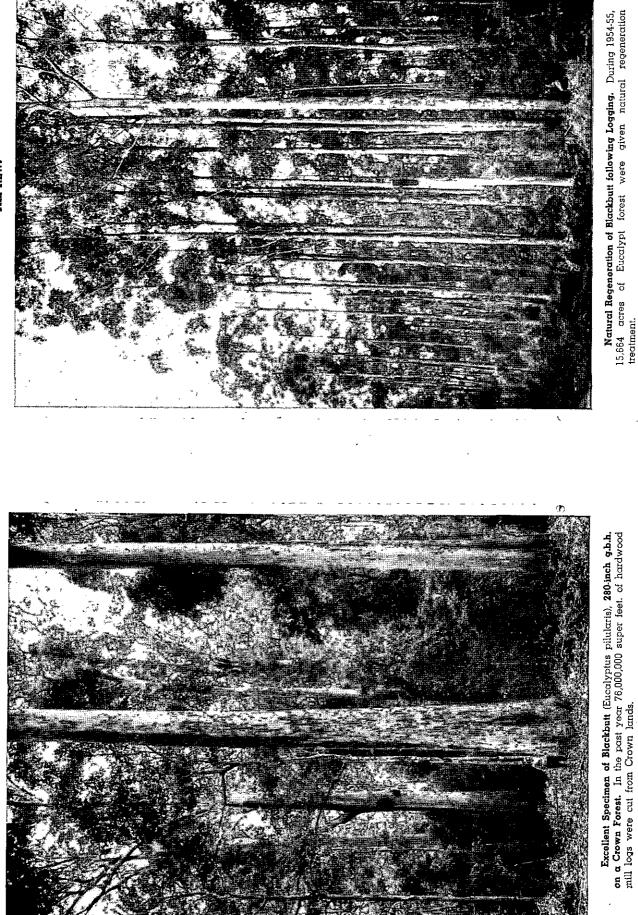
Thinning around elite trees in the older stands is being continued in an effort to promote greater crown and cone development.

(C) Euclyptus Species.—Following the steady demand from interstate and overseas buyers for seed of the principal commercial and special purpose euclypts, collections were made in order to maintain reserve stocks at sufficient level to meet both Departmental and outside requirements.

Collection totalled 43 lbs., comprising fifteen species.

At 30th June, 1955, stock totalled approximately 135 lbs. representing 43 species.

(D) Miscellaneous Species.—Seed of numerous species was obtained for trial plantings and for the production of stock of ornamental, shade, and fodder species for Departmental and public use. The seed was obtained from various sources, including Departmental collections, Brisbane and Rockhampton Botanical Gardens, Brisbane City Council, National Parks staff, and from other Forest Services, to all of whom we are grateful.



THE NEW.

THE OLD.

Departmental seed movements during the past year are as follows :

SEED MOVEMENTS, 1954-55.

			-		1 8	spec	les			· •	
Subject.	Eucalyptus.		Pinus.		Araucaria cunninghamil.		Agathis robusta.	Miscellaneous.		Total.	
(1) Departmental Seed	lbs. o		bs.	-	lbs. oz	s.	lbs. ozs.	lbs.		blbs.	
Collection	43	0	330	0	•••		••	250	0	623	0
Total	43	0	330	0				250	0	623	0
 (2) Purchase of Seed— (a) Ex Private Individuals (b) Ex Other State Services (c) Ex Overseas 		8	••• *57	, 8 8	· · · · · · · · · · · · · · · · · · ·			1 5 25	5 5 0	1 7 82	5 5 8
Total	1	8	58	0				31	10	91	2
 (3) Sale of Seed— (a) Private Individuals (b) Interstate (c) Overseas 	1 10	9 3 5	56 89		23 8) 3)	 	1 20 50	8 4 4	50 99 4, 986	15
Total	12	1	145	14	4,906 8	3	••	72	0	5,136	7
 (4) Departmental Sowings— (a) Rocklea Nursery (b) All Nurseries (excluding Rocklea) 	3		208	8	8,015 (‡20 0 171 0	. 18	0 12	42 8,406	
Total	7	4	208	8	8,015 (5	191 0	26	12	8,448	8

* Mainly P. caribaea ex Caribbean Region.

† Mainly export to Hong Kong.

[‡] Thick sowing of seed of very low L.G.C.

Nurseries.—A new high shade Hoop Pine nursery is under construction in North Queensland and section of the nursery was sown with seed this year. The number of nurseries in production thus becomes 29, an increase of one since last year. Extensions were carried out to the Hoop Pine nurseries at Jimna, Kalpowar, and Builyan and to the exotic pine nursery at Bowenia. Bed size, layout and the watering system at the Beerwah nursery have also been re-designed and considerably improved.

Stock produced by all nurseries was most satisfactory and there should be no difficulty in maintaining this condition at the 29 nurseries. Hoop Pine planting stock is produced by 20 nurseries, exotic pine stock by 7 nurseries, Eucalyptus stock by 1 and 1 nursery, i.e., Rocklea, is responsible for the production of shade, fodder, ornamental, and miscellaneous planting stock.

The use of filter press of suitable Ph. value has now become standard practice in all exotic pine nurseries for the maintenance of bed fertility, and its use should help to reduce weeding costs—a major factor in the cost of production. Weeding costs should be still further reduced by the introduction of white spirit as a pre- and post- emergent weed control in these nurseries. In Hoop Pine nurseries the use of white spirit as a pre-emergent spray for weed control has been approved, but its use as a post-emergent control has been postponed pending the results of further experimental work.

The number of plants on hand at 30th June, totalled 7,497,000 while, during the year, 4,259,000 plants were despatched to plantations, school forest plots, and supplied to the public.

Regeneration Treatment of Natural Forest.—There has been a slight increase in the acreage of natural forest treated during the year, the details for 1953-54 and for this year being as follows:

					Acres. 95354.		Acres. 1954–55.
Hardwoods			 	• •	14,611		15,664
Cypress Pine		:	 •••		10,919		12,145
Tropical Rain for	est		 ••		391		608
Natural Hoop Pir	10		 ••			••	375
		• •	•	نب	25,921	••	28,792

The acreage treated during 1954-55 includes nearly 17,000 acres of forest treated for the first time. During the year the treatment rules for Cypress Pine were revised, the major alteration being with respect to spacing. Work on the treatment of tropical rain forest has continued, but the shortage of skilled labour required for this class of work has greatly curtailed operations.

A considerable amount of day-labour logging has been carried out in the hardwood forests of South East Queensland and although this work is not recorded as treatment it is actually a silvicultural treatment in so far as it aims at the removal of the large, overmature stems by felling—stems which the contract feller prefers to by-pass.

Supply of Trees to the Public.—Sales to the public totalled 213,563, distributed as follows :

$\mathbf{B}\mathbf{y}$	Specie	s.		By	7 Purcha	ises.	
Slash Pine			94,187	Farmers			160,254
P. taeda		·	13,761	Schools			6,019
P. patula .	•••		3,927	Private			41,704
P. radiata			2,809	Government	Depart	ments	5,586
Hoop Pine			56,345		•		
Miscellaneous	• •	••	42,534				
•		_	213,563			_	213,563
• •		-				_	

Research.—During the year the number of trained officers engaged full time on research was increased to 11 by the return from America of the officer engaged on Tree-Breeding work and the retention of the officer who had relieved during his absence. The Department is deeply appreciative of the courtesy and ready assistance extended to him in all countries visited.

Trained research officers are located as follows: North Queensland (3), Mary Valley (1), Beerwah (3), Brisbane Valley (1), Dalby (1).

(i.) North Queensland.

A survey was made of the present position of knowledge in respect of the silvicultural treatment of the Rain Forests of North Queensland, and the information available was summarised in a paper presented at the 4th World Forestry Conference at Dehra Dun.

Field work continued along the lines of earlier reports and further plots were established dealing with the silvicultural treatment of forest types not previously covered.

Preliminary rules were formulated for the silvicultural treatment and tree marking of 'he rain forests of the North and these will be reviewed, from time to time, in the light of the information gained.

(ii.) Coastal Central Queensland (Bowenia-23 degrees South Latitude.)

Caribbean Pine (*P. caribaea*) is maintaining its advantage over Slash Pine (*P. elliottii*) in this area and the oldest plots, now 6 years old, have reached the stage for first pruning. After thinning to 400 per acre the average figures for height and girth are 23 feet 2 inches and 14-1 inches respectively.

Both small and large scale ploughing experiments continue to make encouraging growth.

Following its promising growth in the arboretum, a further series of plots of P. tropicalis has been established. This species appears to be well adapted to the locality.

(iii.) South Queensland.

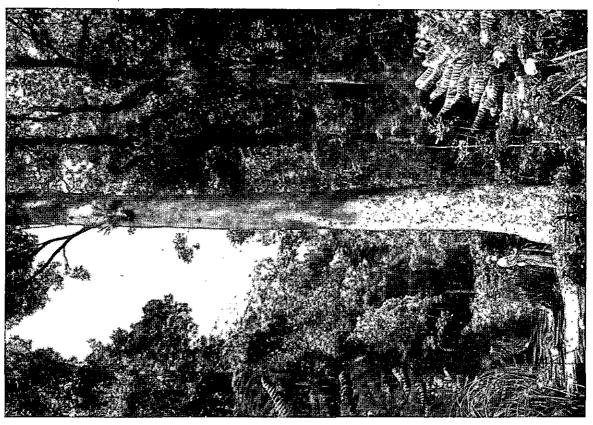
(a) Tree-Breeding-Slash Pine.—During the year 190 successful grafts, representing 12 parent trees, were established in the seed orchard at a spacing of $24' \ge 24'$. Grafts were randomised as individuals and cover an area of over 2 acres.

Action was taken to extend the seed orchard clearing so that a net area of 20 acres is available for planting and to provide improved protection.

At the close of the year female cones were developing on grafts established in 1952 and transferred to the orchard in 1953.

To handle an increased grafting programme, embracing P. caribaea as well as P. elliottii, a lath house was erected in the Beerwah nursery and in the 1955 season approximately 1,000 grafts were attempted.







Queensland Maple (Flindersia brayleyana) 14 feet g.b.h. in a North Queensland Forest.

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THE FUTURE CROP.

In March, 1954, 30 lbs. of seed were collected from a progeny test established in 1945 with stock from the controlled pollination of 3 selected parents. On germination, a number of albino plants appeared. This is similar to happenings with stock from selfed seed. The remaining plants developed normally and by winter 1955 were comparable with routine plants in the nursery. It was decided to widen the planting spacing to 9' x 9' (routine is 8' x 8') with this stock and an area of approximately 500 acres was covered.

A third series of observations was made on Free Growth Experiments to study the effect . of spacing on seed production and the results outlined in the last report were confirmed. These observations, together with those on Loblolly and Hoop Pine, have been written up as a Research note to be issued shortly.

Caribbean Pine.--This species has made excellent growth in trial plots, especially within the tropics. Its form is, however, greatly inferior to that of Slash Pine and there is urgent need for work on strain improvement if maximum use is to be made of this species. Therefore, the older plots (1948 and 1949 plantings) have been combed for plus trees and 28 located. From these over 500 grafts were attempted at Beerwah. For this species a seed orchard is proposed at Bowenia.

Loblolly Pine.-During his stay in the United States of America the officer-in-charge of Tree Breeding secured, with the assistance of local investigators, seed representing 12 widely separated localities covering the range of occurrence of this species. Using stock from seed of local origin as control, a comprehensive series of plots has been established at Beerwah. Selected provenances were used in smaller experiments at Tuan and at Passchendaele. At time of lifting for transfer to the field considerable differences were evident in the nurseries and average height of stock ranged from 15.9" (Louisiana) to 8.5" (Maryland).

P. radiata.—Arrangements are in hand to obtain from New Zealand scions and established grafts from some of the elite trees being used in that country.

Kauri Pine --- It has been confirmed that root shoots can easily be obtained where tubed stock are permitted to root into the nursery bed and the root is severed at lifting. This will provide an effective method of vegetation reproduction once a plant is established in the nursery. To use this method, grafting is of no avail and therefore work is being concentrated on production of cuttings. Early attempts at air layering were unsuccessful but the work is continuing.

Hoop Pine.-The most important development with this species was the successful grafting of scions from 15-year old trees. Second order branches, from near the top of the tree, were used. Grafts made in October showed 56 per cent. still surviving. It remains to be seen whether these will continue to grow with a branch habit or if they can be induced by staking to develop into normal apical shoots. With this species, which produces seed at approximately four-yearly intervals and has proved almost impossible to strike with cuttings from old trees, this advance could accelerate strain improvement work.

(b) Exotic Pines.-Establishment of the large scale drainage experiment at Tuan, using P. elliottii, was completed with the planting of a further 50 acres. This brings the area involved in this planting to approximately 150 acres, planted in three years, 1953, 1954, and 1955. The health and development of the earlier plantings are encouraging and, if maintained, would indicate that large areas of the type covered could be planted successfully.

The large scale tending trial established with 2, 4, 5-T ester, referred to in last year's report, has given reasonable control of Eucalypt and Wattle regrowth. Results, however, are not such as permit its economics to be determined at this stage and it will be necessary to follow tending costs over the next few years. Further small-scale trials indicate that an earlier application of the treatment (March-April), following a November burn, should give better results and arrangements are in hand for a further large-scale trial to be initiated in the coming year.

The use of white spirits as a weedicide has been adopted in routine nursery practice. Aromatic content of the spirit used is about 20 per cent. and rate of application about 50 gallons per acre. Bed preparation and manuring are timed to permit the development of the major weed crop before the germination of the pine seed. A month after the completion of germination of the pine, white spirits can again be used without harm to the seedlings...

Manuring experiments involving the use of filter press and cow manure continue to show similar results from application of equivalent volumes of each.

Maintenance of long term experiments, and the establishment of new series to determine the most satisfactory thinning schedule for Slash Pine, continue to be the most important phase of the work conducted at Beerwah. During the year a Research Note was issued setting out the present status of this work. It is hoped that the series of experiments established in 1951 with a basal area control will provide basic data to permit evaluation of a range of treatments beyond that which can be covered in field experiments with the area and staff available. Examination of data from existing experiments shows a good correlation between standing basal area and basal area increment. From age 13 to age 27 years (the oldest Slash in Queensland) near maximum basal area increment is given over a wide range of standing basal areas from 120 to 180 sq. ft. With *Pinus patula* there are reliable indications that this range is considerably more restricted in extent and that maximum basal area increment in normal years is put on as low as 80 to 90 sq. ft. standing. This is shown by the following figures taken from Experiment 1334 at Pechey. Each figure is the average for two plots.

•		Standing	Docal As						Bas	al Area Increme	nt.
•	i	Standing	Dasai Ai	ica 1904				-	1952-53.	195354.	1954-55.
23 square feet									Sq. ft. 8·8	Sq. ft. 5·4	Sq. ft. 7·2
04 square feet 74 square feet		••	••		•••	•••	•••	•••	8·3 7·9	6+1 4+9	7·7 9·6
63 square feet	•••	•••	••	•••	•••				7.7	4.6	9.1

(c) Hoop Pine.—The only nursery experiments being continued in Hoop Pine areas are those which involve weed control and those which aim at finding the rate of manuring necessary to maintain nursery fertility. Indications are that applications prior to sowing, at two yearly intervals (Hoop is a 2 year crop), of from 10–20 tons of cow manure per acre will maintain fertility at a satisfactory level. Use of white spirits as a pre-emergent weedicide has greatly reduced early weeding costs and has been adopted in routine. Further work remains to be done to determine if and when it is safe to use white spirits as a post-emergent spray. Interesting results were obtained from the use of "Crag" Herbicide No. 1 as a post-emergent weedicide. This material, based on 2, 4–D ethyl sulphate, shows no herbicidal properties until broken down by soil micro-organisms to 2, 4–D when it becomes toxic to germinating weeds. At Yarraman it greatly reduced weed development and prevented, in the treated plots, a heavy development of Erigeron. Cost of the compound is not known and therefore the economics of treatment are uncertain.

In the field the principal work lies in the maintenance of a series of thinning experiments at Imbil and Yarraman. The stage has been reached where a critical review of thinning schedules is justified and it is intended that this be made the subject of a Research note in the near future.

Work is under way on the production of a yield table for Hoop Pine and this should soon be completed. Using as site index the average predominant height at age 25 years, the following average indices were obtained for areas in which Hoop has been planted.

• • •		Distr						Average Site Index.
Brisbane Valley	• • •	••	• •			۰.		$75 \cdot 6$ feet
Mary Valley							•••	84.2 feet
Monto								$78 \cdot 6$ feet
Gallangowan			• •					77-2 feet
North Queensland	•• •		· ••	••	• •		•••	105.8 feet

The spread of Aruajia albens (Rubber Vine) in the Brisbane Valley over the past 5 years has caused great concern and a number of experiments have been established in the past year in an effort to achieve chemical control using a number of 2, 4, 5–T formulations.

Most promising results have been obtained by the use of "Agserv" experimental formulation 2122. This has greatly reduced the numbers and the vigour of the survivors, but the cost is prohibitive, because of the number of applications necessary to give any degree of practical control.

Amizol, which acts by preventing chlorophyll formulation, has shown great promise in a single preliminary trial. Further experiments will be carried out with this material. In December, 1953, there was a heavy and general seed-fall of Hoop Pine and a series of experiments was laid down in R. 169 St. Agnes in an effort to assist the establishment of natural regeneration. Treatments involved brushing of scrub species, brushing and burning before seed fall and brushing to reduce canopy after germination was obtained. In some plots regeneration recorded was over 200,000 per acre, with the highest figures on the brushed and burnt plots. Despite excellent weather conditions, which should have been most favourable to survival, in only 17 out of 72 plots has any regeneration persisted and the highest survival is 60,000 per acre. In general, the untreated control has higher numbers of survivors than the treated plots and of the 17 plots quoted as having stocking 12 are in the untreated. Main causes of deaths of seedlings have been insolation, drought, browsing by wallabies and chewing by grasshoppers. Similar observations were made in the Yarraman district in standing rain forest and under plantations.

Under-planting of rain forest with Hoop Pine at St. Agnes, where a natural regeneration system is in effect, has given variable results. Survival has been good but growth is slow. In some plots severe damage has resulted from wallables. Hormones (2, 4, 5-T ester) have been used to control scrub regrowth where established plants are being liberated and the results have been good. Use of the butyl ester in oil as a basal paint has given promising results.

Trial plots were established of *Cunninghamia lanceolata* to test its suitability as a plantation species both in frosted and frost free sites. Survival has been excellent. Plots were also established with Parana Pine (*Araucaria augustifolia*). No difficulty was experienced in handling the stock along lines standard with Hoop Pine and the development in the nursery and the field has been better than that of Hoop.

(d) Coastal Hardwoods.—Euc. pilularis—Thinning Experiments. The Blackbutt thinning experiments referred to in the 1952-53 report were measured during the year and a comprehensive, report prepared for publication as a Research Note. Interpretation of the results was made in terms of the value of wood material standing at various spacings, using data obtained from mill studies. The effect of this approach is shown in the table below, which contrasts volumes and values for the three experiments at age 31.

	Expt 1.	Expt. 100.	Expt. 101.	Expt. 1.	Expt. 100.	Expt. 101.
					•	·
•• ••	4,650	3,800	5,150 2 2,510 Colota	41	21	53 2
	3,970	3,670	3,900	51	41	10 f plots 58 92
		3,970	3,970 3,670	3,970 3,670 3,900	3,970 3,670 3,900 51	3,510 plots 1 3,970 3,670 3,900 51 41

It is clear that consideration of volumes alone, without taking into account the rapid increase in value with size in material of this type, can be misleading.

Use of 2, 4, 5-T.—Experiments with 2, 4, 5-T in the thinning of natural regeneration of Blackbutt were continued. A large scale trial was established to obtain information on the cost of applying 2, 4, 5–T solutions to stumps in conjunction with standard treatment. An 0.5 per cent. water solution of 2, 4, 5–T amine salt was used, and stump height kept to a maximum of 12 inches. Costs for the treated block were :—

Labour-	'.		,	•		<u> </u>		
Axe	ework (equival	ent to norma	l treatment)			£2 15 3 per acre	1.5	aites a
App	olying 2, 4, 5–1	г			••	£1 1 3 per acre	1. A	
a a stati						£3 16 -6 per acre		
Materia	ls		•• ••			0 3 10 per acre	•	
$(1-\alpha)(k_1-1) = 1 + \epsilon$								

The use of 2, 4, 5–T has resulted in a 45 per cent. increase in costs over those for normal treatment.

Assessment of the block treated with 2, 4, 5–T indicates a kill of 75 per cent. and 80 per cent. respectively, with Blackbutt and Smudgee (Angophora woodsiana), which are the most important species on the area. On the control block (normal treatment only) all stumps are coppicing vigorously.

Excellent results were obtained in a further trial with injections of 5 per cent. 2, 4, 5–T butyl ester in distillate. With a rate of application of one injection of 3 ccs. of solution to each 5" girth an overall kill of 98 per cent. was obtained. The only species in which a 100 per cent. kill was not obtained were Smudgee (Angophora woodsiana), Bloodwood (Euc. intermedia) and Grey Ironbark (Euc. drepanophylla). For these species the kill was 93 per cent., 80 per cent., and 91 per cent. respectively, and those stems which were not killed completely had their crowns so severely injured that they no longer constitute effective members of the stand.

Prescribed Burning.—Observations in the two prescribed burning experiments in the Maryborough district have continued. Three successful burns have now been effected at R. 958 Gundiah, with the proportion of the compartment actually burnt decreasing on each occasion :— Name

Year.									Perce:	ntage	oi Area	ıв
1952								• •			90	
1953					• •		••	••	• •	••	65	
1954	••	••	• •	• •	••	••	• •	••	••	••	45	

At R. 57 St. Mary no further burns have been carried out, but one is proposed in the near future.

Girth increments over the period 1954-55 for the principal species involved in the two experiments are set out below :---

							G.B	.H. Incremen	t 1954-55—incl	1es.
		Specie	5.			ļ	R. 958 G	Jundiah.	R. 57 S	t. Mary.
					·		Unburnt.	Burnt.	Unburnt.	Burnt.
Spotted Gum Grey Ironbark Red Ironbark	•••	 	、 <i>.</i> 	 •••	•••	 	·55 ·48 ·89	·68 ·57 ·58	·33 ·76 ·49	·93 ·94 ·97

Height increments on the smaller stems (up to 40' in height) since inception of the experiments are as follows :----

				Height Increment 1952–55 (feet.) Height Class (feet.)										
Spe	Species.					10-20	feet.	20-30	feet.	30-40 feet.				
				Unburnt,	Burnt.	Unburnt.	Burnt.	Unburnt.	Burnt.	Ünburnt.	Burnt.			
R. 958 Gundiah— Spotted Gum Grey Ironbark Red Ironbark		•••	 	$1.83 \\ 2.89 \\ 1.25$	1·33 1·14 	$5.42 \\ 5.42 \\ 8.74$	1·13 0·37 2·60	$5.05 \\ 10.32 \\ 9.16$	6-53 8-17 5-16	7-50 8-61 7-16	7·36 7·66 3·33			
R. 57 St. Mary— Spotted Gum Grey Ironbark Red Ironbark		•••	 	1.64 0.60 2.10	3·24 0·21 3·62	$2.48 \\ 2.28 \\ 4.39$	1-02 1-00 -77	$4.00 \\ 2.12 \\ 2.83$	3·70 2·67 6·58	$1.60 \\ 2.81 \\ 3.90$	$2 \cdot 14 \\ 2 \cdot 64 \\ 5 \cdot 16$			

In view of the conflicting evidence provided by girth and height increments, it is obvious that the apparent increase in girth growth must be treated with caution. A study has been undertaken to check on possible changes in form resulting from burning.

At this stage, it appears that prescribed burning in this forest type results in almost no obvious damage to stems over 20 feet in height. Damage increases in the smaller sizes. No stem below a height of 8 feet has progressed into a higher class over the 4 years since the Experiment commenced.

(iv.) South West Queensland.

The principal work in this region has been the maintenance of thinning experiments in Cypress Pine. During the year the compilation of a volume table based on g.b.h. and height was completed. This will permit the critical examination of results obtained from a number of thinning experiments which have been current for upwards of 20 years. It is hoped to complete this work within the present year.

The work conducted on the growth of shade, windbreak, and fodder trees is reaching the stage where useful information is being provided. The oldest plots are established on the property of J. F. Thomas at Brookstead on the heavy black soils of the Darling Downs. On this area the outstanding species are two which grow naturally in the south west, namely, *Acacia excelsa* (Myall) and *Acacia homalophylla* (Yarran). It is proposed to issue a Research Note dealing in detail with this and other plantings.

Protection.—The extremely good weather conditions throughout the year greatly reduced the risk of fire and also reduced the amount of burning on green breaks in the Coastal hardwood areas by almost 50 per cent. Expenditure on fire fighting, patrol and co-operative burning did not exceed £13,990, compared with an expenditure of £136,300 for 1951-52-a year of high fire hazard. Details of firebreak construction and maintenance work carried out during the year are as follows :

			CLEAD	RED BI	REAKS-	PLANT.	ATIONS.				
Construction	-										Miles.
	ary Breaks	• •	••								58.2
Clear		••	••		••	• •		••			98.3
Rotary		••	••	• •	••		·'			• •	6.0
Grade	•• ••	• •	••	••	••	••	••				47.6
Scrub B	reak Impro	vement	s	••	••		• •	••		••	22.0
Maintenance											
Chip		•••									75.1
Burn		• •									122.4
Rotary	Hoe	•••	••	••					••		287.8
Grade	•••••••	• •	••								579-3
		c		D							
Construction		U	LEARE) BREA	KS-WE	STERN	Fores	TS.	•		
Construction Cut and	~ •										Miles.
Stack a		•••	•••	••	••	••	••	••	••	••	112.4
		••	- •	••	• •	••	• •	••	••	••	8.5
Improvemen											
Grub R	bads	••	• •	• •			••		••		43.9
Grade	•• ••	• • *	••	••		۰	• •	••			96.5
		••	• •	••	••	••	• •	••			97.7
Green S	trips	••	••`	••	••	••	• •	• •			145.0
Maintenance											
Sucker a	and Burn										360.3
Grade			••						••	••	541.7
Rotary :	Цое	••	••					••	••	•••	425.3
									••	••	120.0
	Gri	en Br	EAKS-(Coasta	L HAR	DWOOI	AREA	s).			
Construction											Miles.
	gerous trees	з							•••		12.1
Stack ar							• •	••			5.1
	ments	••	••	••	••						14.4
Roads	•• ••	••	••	::	•••		:.		••	•••	59-5
Maintenance			· •		•						
Chip and	l/or plough	••			'		••				1,436-8
Burn							••		••	••	1,430·8 682·0
Roads	·· · ·		• •						••	••	361·8
Grade		·	••				•••		••	••	301·8 575·7
							••	••	••	• •	919.1

Capital Improvements.—During the year, 9 barracks for the accommodation of single men were constructed but, unfortunately, it was not possible to commence the provision of a higher standard of housing for married men living on the job with their families.

Details of the main improvements constructed are as follows :

IMPROVEMENTS CONSTRUCTED.

Ttom		
ltem	٠	

Completed 1954-55

Barracks (Ranches	6 man)										
Renahoe	o many		• •		• •						9
rancings		••	· · .								ĩ
Offices											2
Store room	าร		• •						•••	••	5
Garages		• •								••	
Sheds	••					•••		••	••	••	19
Lookouts								••	••	••	$\frac{12}{2}$
Camp Rigs	:							••	••	••	
Galley-She			ies (Co	nibine	а)	••	••	••	••	••	10
Bathrooms						••	••	••	••	••	11
Showers		••	••	••	• •	••	••	••	••	••	2
	••	••	••	••	••	••	••	••	••	••	1
Galleys	••	• •	••	••	••	••	••	••-	• •	• •	1
Lavatories		••	••	••	• •	••			••		3
Huts	••	••	••	••	• •	••			• •		6
Gantries			••	••	• •			••			2
Chinamen					• •	• •					
Magazines							••	••	••	••	3
Fids and				• •	••	••	••	••	• •	• •	1
			••	••	••	••	••	••	••	• •	46
		••	••	••	••	••	••	••	••		14
Water Sup		••	• •	••	••	• •	• •	• •			2
Felephone	Lines	• •	••		••	••					24 miles.
felephones	install	ed		• •			••				5

Expenditure and Labour.—Expenditure on reforestation works was £1,403,864 which represents an increase of approximately £307,568 on the figure for 1953-54.

Details are recorded in Appendix H but the major headings of expenditure were :---

					,				£	
Plantations									293,019	
Natural Regeneration	• •	• '	• • •	•••				• •	36,885	
Nursery expenses .	· .		••				••		42,321	
Research				• •				۰.	27,171	
Surveys								۰.	17,325	
Protection									219,672	
Capital improvements			• •		• •			· · · .	• 91,704	
Tools, tents, supervision,	æc.				·			• •	265,598	
Wet time, holidays, leave	ө				••			• •	182,008	
Cartage of rations								• -	14,983	
Camping allowance	•••						••	• •	102,526	
Pay Roll Tax	• •				• •			• •	27,060	
Worker's Compensation	••				· · · · · ·	••	• •	• •	32,706	
Seed collection and stora	ge		••	• •					2,105	
Miscellaneous	• •	• •	••	•••	• •	••	• •	••	48,781	
									£1,403,864	
								-		'

The wages staff on reforestation, 1,499 at the beginning of July, increased steadily throughout the year and at the close of the year was 1,582.

ACQUISITION OF LAND.

During the year 1954-1955 an amount of £9,645 9s. 5d. was expended on the acquisition of land for Forestry purposes, as follows:

<u> </u>										8.		
Purchase of land	l	••	••	•,•	••	••	••	••	7,790	16	5	
Compensation p	aid for Res	sumptio	ons	••	•••			• •	362	2	6	•••
Survey and Rea	l Property	fees an	nd Stam	p duty	••			• •	1,182	3	· 4	
Miscellaneous		••	••	••	•••			••	310	.7 -	2	
֥									£9,645	9	-5	
+ f •								·		. <u> </u>		

Ten properties, covering an area of 2,205 acres 3 roods, were purchased and seven areas totalling 55 sq. miles 233 acres and 13 perches were resumed for Forestry purposes.

FIRES.

• . . .

It was a particularly good year as far as outbreaks of fire on forest reservations were concerned, 69 only being reported as on or threatening forest reservations. Below is a summary of the magnitude of these fires :—

Unknown.	Over 100 acres.	10 acres to 100 acres.	acre to 10 acres.	acre or less.	
. 17	14	17	18	3 .	
		-			
· · ·			•		
•					
• * *					
- **	• · · · · ·				
· . *					
	· · · · · · · · · · · · · · · · · · ·			1.	
			·		
	الوريو الدارية الأراد				

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FOREST SURVEYS.

Eleven fully-equipped camps operated throughout the year, while six smaller camps were occupied on district surveys as occasion demanded.

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Total expenditure for survey work amounted to £43,416 5s. 0d., of which £26,091-2s. 8d. was chargeable against Harvesting and Marketing projects and the balance, £17,325.2s. 4d., against reforestation projects.

As a result 34,686 acres were assessed (Classes 2 and 3); 72,648 acres were subjected to either firebreak, compartment, or soil survey; 54,980 acres were covered by forest inventory survey, entailing the establishment of 631 plots; 1,093 plots were re-measured and 34 detailed yield plots laid down, while 79,862 acres were closely inspected (Class I, Survey).

-

Mileage completed was :---

								· ·	Mls. ("ha '	:	
Theodolite and chain						••			16	23		. ·
Compass and chain		• •	••	••	••			•••	705	22		
Strip survey	••••	••'	•••	• •	· • • *		· · · ·	•••	1,114	56		
Grade lines	•••	••	• :		• •	•••			22	25	•	
Old boundaries	••	••	••	••		••		• •	- 37	00	. *	
Cross sections	••		· · .		••	• •		••	7.	37		
Road investigation	•••	••	•• `	•••	••	••	·	<i>:</i> .	11	45	•	
							•	;	· · · ·	1		

÷.

Briefly, operations in each district were :---

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Atherton-Two camps operated in North Queensland throughout the year.

Class 3 survey on R. 99, Western, was completed by November, and the assessment of the Mount Cooroo Lands occupied a month. Approximately 1,200 acres of Yarrabah Mission (R. 204) were also assessed and completed by December.

Camp then shifted to R. 310, Gadgarra, where compartment and assessment surveys are proceeding.

A second camp was continuously occupied with road location throughout the year. Areas dealt with included R. 756, Charappa and Range, R. 353, Ongera, Culpa Lands, R. 185, Danbulla and R. 194, Barron, involving 22 miles 25 chains of grade lines and 30 miles 46 chains of compass and chain traverse.

A two-man party from No. 1 Camp was engaged in re-opening old boundaries of portions 202, 206 to 209 Japoon.

Mackay—Assessment work continued in the Springsure district until the end of November and the camp then transferred to R. 117, Aspley (Clermont district), where three Logging Areas and fourteen Compartments were run and marked by the middle of April. Compartment survey of R. 127, Blair Athol, was then put in hand, but was temporarily abandoned and camp shifted to the Blackdown Tableland, approximately 23 miles from Dingo. At the end of the report period base camp had been established and Class 2 survey of R. 5, Mimosa, was being carried out from flying camp after packing up Wafer's track.

A small camp stationed at R. 20, Maryvale, continued with compartment surveys on that reserve, while soil surveys were effected on Bayfield Holdings Nos. 3 and 4 and also on Portions 1, 20, and 26, Maryvale.

Reconnaissance of part of Manifold Holding was also carried out.

Maryborough—Soil surveys on State Forest 915, Tahiti and Bidwell, located in the central area, were continued by the two party camp until the 3rd November, a total of 15,160 acres being dealt with. The Maryborough unit then shifted north and completed an area of 7,684 acres, involving 96 miles of stripping. In addition, 52 miles of compass and chain traverse were run in connection with unplantable boundaries, control lines, &c., and 4 miles 13 chains of theodolite control lines were laid down.

Camp engaged on coastal Forest Inventory Survey re-measured detail plots on R. 57, St. Mary, R. 12, Gungaloon and Fraser Island. On R. 958, Gundiah, 22 F.I.S. plots were also re-measured.

On 26th October camp transferred to R. 169, St. Agnes, and actual Forest Inventory Survey establishment (141 plots) was completed by 30th June.

At Gallangowan (R. 298 and R. 154) 121 Hoop Pine plots were re-measured by a second Forest Inventory Survey camp, also 55 plots on R. 220, 15 on R. 355, and 8 on R. 138. Local camp has been strengthened for soil survey of R. 779, Gregory, and Vacant Crown Land, where approximately 11,000 acres have been stripped. Miscellaneous surveys included re-survey of eleven experimental plots at R. 355, Kilkivan, and levelling on the Warrah-Kullogum road.

Fraser Island—In addition to the re-measurement of detail plots, 7 miles 72 chains of compass traverse were run by local staff in connection with roads.

Gympie—On their return from R. 915, Tuan, early in November, the Gympie survey unit was engaged in bringing up to date the soil map of R. 1004, Toolara.

On 18th February camp was established on R. 1004, where soil and compartment survey is proceeding.

Minor district surveys were carried out on R. 124, R. 135, R. 242, and R. 451.

On 1st February a new camp was organised and was engaged on the type survey of potential Hoop Pine planting land on certain logging areas on R. 135, Brooloo.

At the end of report period Corby and East Derrier Logging Areas had been completed, plus the greater part of Cliff Logging Area. Sawpit, Doyle, East and West Coonoongibber remain to be done.

A small party ran 13 miles 71 chains of thinning roads in Derrier and West Derrier Logging Areas during the first half of report period.

Dalby—Two camps operated practically throughout the year on forest inventory and compartment survey.

The first continued with the re-measurement of Forest Inventory Survey plots on R. 61, Gideon, R. 328, Yuleba, and R. 368, Combabula, a total of 559 plots being completed. In addition, 25 detailed plots were established before shifting to Inglewood on the 9th June. R. 122, Inglewood, will be the first Warwick reserve to be dealt with by forest inventory survey.

The second camp completed inventory survey of both R. 4, Braemar, and adjoining Reserve 187, Daandine, a total of 99 plots being established. Camp was closed down, owing to sickness of Officer-in-charge, from 19th July until 28th August. On 3rd November camp was shifted to the Nudley group, comprising R. 93, Nudley, R. 288, Jingi Jingi, and R. 266, Canaga, where inventory work is proceeding. From 1st April camp was in charge of a new overseer. By the end of financial year 161 plots had been established.

Brisbane—Main work carried out was the continuation of soil and compartment surveys on R. 611, Beerwah, where 2,100 acres were dealt with. Checking of planting boundaries and other data was done for the completion of standard plan of R. 589, and R. 638. The Caloundra group (Reserves 108, 160, and 442, Bribie) was divided into Compartments and approximately 1,840 acres were stripped for soils in the Coochin Creek area on R. 561, Bribie. Two compartments were also laid out on this area. On Reserve 700 Canning, 2,000 acres were dealt with by soil survey. Miscellaneous surveys for leasing, &c., were effected on R. 525, Beerwah, R. 539, Bribie, R. 370, Durundur, and R. 60, Wararba. From January to the end of April camp worked in two-party units.

In the Kilcoy district, an area of 638 acres was enclosed by surveyed scrub firebreaks on Shallcross and Jenkinson Logging Areas (R. 637, Kilcoy), while areas for scrub felling were demarcated on Davies and Shallcross Logging Areas.

In August, Forest Inventory Camp re-measured 108 plots at Jimna (R. 207, R. 137).

Brisbane Valley—District surveys for scrub felling, roads, firebreaks, overburns and frosted areas were carried out by local staff, while a Forest Inventory Survey Camp re-measured 71 plots on R. 509, 49 on R. 257, and 232 on R. 283. On R. 509, 22 new plots were established.

In addition, approximately 12 miles of theodolite control were run on R. 257, Cooyar (West Logging Area).

Many Peaks—A local camp was engaged on district surveys and the contour survey of Compartment 1, Mossman Logging Area.

From 18th October, Forest Inventory Survey Camp, transferred from Gallangowan, established 23 plots and re-measured 83 plots on R. 95, and also established 5 plots on Archibald Logging Area (R. 67, Bulburin). On the 10th January, Forest Inventory Survey was commenced on R. 28, Coominglah, where 180 plots had been established and approximately 19,000 acres covered at the end of June.



Typical National Park Scene—Wallacha Falls—on Palmerston National Park, North Queensland.



A Graded Walking Track on Burleigh Heads National Park. There are now 225 miles of graded walking tracks on National Parks throughout the State.

NATIONAL PARKS.

National Parks play an important part in the economy of the country because of their use in relation to the tourist industry of the State. They are now amongst the chief tourist attractions of Queensland and each year there is an increasing number of visitors to them.

Last year visitors approximated half a million people and many of them were high in their praise of the Department's policy of complete preservation of these areas in their natural condition. The excellent track systems laid down on many of the National Parks enable visitors to stroll at leisure through these areas and observe their beauties at close quarters.

A large part of the money allotted for work on National Parks during the year just closed was expended on maintenance of the track systems. During the war, when funds and labour were not available, many of these tracks fell into disrepair, but since the end of the war this work has been given special attention within the allotment of funds made available each year. Another militating factor in the work of maintenance was the cyclones over the past 2 years, which did considerable damage to the tracks.

During the past year a most unusual and prolonged heavy wet season, accompanied by cyclonic disturbances, greatly curtailed work on all Parks and caused extensive damage to track systems. In some cases landslides and washaways completely obliterated sections of tracks, which have had to be remade. The cyclonic damage was particularly heavy in Central and Northern divisions.

Apart from this maintenance, work was also carried out on improving the entrances to several of the Parks. An attractive entrance, using local stone in keeping with the Park, has been built at the Canyon Lookout at Warrie National Park, Springbrook. This lookout commands one of the most outstanding views in Queensland and many complimentary remarks have been made by southern visitors and others on the improvement work carried out here. Occasion was taken to incorporate a memorial tablet to the late C. J. Trist when constructing the entrance.

At Palm Grove National Park, Tamborine Mountain, work is almost complete on an entrance, picnic ground and parking area, whilst entrances at Lamington and other Parks have also received attention.

One of the outstanding works of the year was the construction of a well-graded road to the top of Cedar Creek Falls, in the Tamborine district. Other improvements for visitors will be carried out at this area in the coming year.

As from 1st October, 1954, full responsibility for all improvements at Tully Falls National Park was taken over, by the Department, from the Main Roads Commission. It is intended, eventually, to regrade the present track system.

Some other features of the year's work were-

- At Springbrook—Round-trip track from Canyon entrance via Blackfellow Falls, almost complete.
- At Bunya Mountains—Track link between Range View Lookout and Paradise Car Park completed.
- At Cunningham's Gap—West Gap Creek track almost completed.
- At Mount Glorious-Maiala track extended to Greene's Falls.
- At Noosa Heads-Loop track from headlands to Noosa Hill completed.
- At Mount Tamborine-Stock-proof fence and appropriate entrance erected.
- At Kondalilla—In conjunction with Maroochy Shire Council, graded road and turntable constructed.
- At Green Island—Repairs and maintenance to the jetty were carried out by the Cairns Harbour Board on behalf of the Department.

R.

- At Lindeman Island—Track construction has been carried out from the settlement up a steep hillside to the plateau.
- At Long Island—New track from Palm Bay towards picturesque beach on West side of Island giving fine views of Whitsunday Channel and Islands.
- At Eungella-11 chains of track constructed, including concrete crossings over Broken River.
- At South Molle Island-40 chains track constructed.
- At Hayman Island—Construction work done on track to a favourite beauty spot, "Blue Pool."

Special attention was given to improving accommodation for men employed on these areas.

The amount expended for the year on all Parks was £45,199, bringing total expenditure since work commenced in 1936-37 to £373,285.

Six new areas, totalling 7,768 acres, were proclaimed National Parks during the year. The chief of these was Magnetic Island, outside Townsville.

The Department acknowledges, with appreciation, gifts of land at Tamborine Mountain for National Park purposes from Mr. F. A. Salisbury and the late Mr. E. Geissmann.

Acknowledgment is also made of the valuable assistance rendered by Honorary Rangers in protecting the Parks, particularly in the organised week-end patrols of the main areas visited by the public.

HARVESTING AND MARKETING.

General.—A heavy demand for all classes of mill timber continued throughout the year. Although weather conditions hampered logging operations to a much greater extent than in most years the cut of 224,466,005 superficial feet was 10,000,000 superficial feet more than the average annual cut of the preceding five years.

The smaller cut of Hoop and Bunya Pine, which was 15,000,000 superficial feet less than in the previous year, was due, partly, to the difficulties created by abnormal rain in the rain forest areas. As stands of these valuable species are fast becoming cut out, the quantity available for milling each year can be expected to fall progressively.

The cut of forest hardwoods showed an advance of 5,000,000 superficial feet and plantations yielded an additional 3,000,000 superficial feet.

14,000,000 superficial feet of plantation thinnings represents an appreciable part of the total timber cut. At the end of the report period steps had been taken to offer sales which would yield a further 6,500,000 superficial feet annually from plantation areas.

Log prices were adjusted for Cypress Pine, and for scrubwood logs in the Mackay and Proscrpine areas. Increased prices were gazetted for the larger sizes in plantation thinnings which are now becoming available. No other adjustments became necessary and logging costs also remained stable.

Strong competition continued to be a feature at auction sales of Crown timber in the Moreton area, where a large part of the State's sawmilling capacity is concentrated. Privately owned timber stands, now in heavily cut-over condition, have supplied the bulk of hardwood logs for the industry in this area for many years.

The supply of sleepers and other items of constructional timber for railway purposes was seriously affected by abnormal periods of wet weather and water-logging of the areas. Labour offering for the work of supplying railway timbers was insufficient under the circumstances.

Year.	Hoop and Bunya Pine,	Kauri Pine.	Plantation Thinnings.	Cypress Pine,	Hardwood.	Cabinet Woods.	Mis- cellaneous.	Imported.	Total.
				(1,000 sup	erficial feet.)				
1949-50 1950-51 1951-52 1952-53 1953-54 1954-55 (estimated).	$55,779 \\ 47,681 \\ 56,416 \\ 64,374 \\ 62,289 \\ 47,000$	4,904 5,558 7,741 6,327 5,825 5,000	$\begin{array}{r} 8,384\\ 11,925\\ 15,319\\ 6,322\\ 11,117\\ 14,000 \end{array}$	37,159 34,736 46,167 52,834 59,067 50,000	$\begin{array}{c} 218,649\\ 229,510\\ 271,222\\ 275,491\\ 259,764\\ 260,000\\ \end{array}$	23,913 21,211 22,263 24,913 29,315 26,000	57,871 54,365 62,334 37,148 45,878 50,000	9,499 8,552 5,778 2,735 6,628 13,000	416,158 413,538 487,240 470,144 479,883 465,000

Mill Logs Cut—Crown and Private Lands.—This table shows logs cut by all mills in the State, annually, for the periods indicated.

Mill Logs—Crown Lands.—The following are the annual quantities of logs obtained from Crown lands as from 1944-45:

			super ft.				super ft.
1944-45	••		193,000,000	1950-51	••	• •	187,000,000
1945-46			190,000,000	1951 - 52	••		238,000,000
1946-47			220,000,000	1952–53	• •		206,000,000
1947-48	••		204,000,000	1953-54			240,000,000
1948-49	••	••	208,000,000	1954-55			224,000,000
$1949 - 50 \ldots$	••		202,000,000				

A comparison of quantities of the various species of log timber cut from Crown forests during the past five years is illustrated hereunder :

Y	Year.		Year.		Hoop and Bunya Pine.	Kauri Pine.	Cypress Pine.	Forest Hardwoods.	Scrub Hardwoods.	Cabinet Woods.	Mis- cellaneous.	Plantation Timbers.
1950–51 1951–52 1952–53 1953–54 1954–55		 	46,588 57,680 60,755 60,269 44,984	5,055 7,677 5,577 5,821 4,799	(1,000 sup 15,667 25,883 25,151 31,259 28,129	erficial feet.) 61,618 70,227 62,063 71,251 76,090	7,907 9,809 10,228 12,258 9,455	13,337 18,406 19,385 24,914 21,185	24,948 32,991 17,728 23,510 25,712	12,313 15,666 5,121 11,455 14,111		

Th	e Timber Business	5.
(a) Mill Logs—	1953-54.	1954-55.
Hoop and Bunya Pine	60,269,000 super. feet	44,984,000 super. feet
Forest Hardwoods	71,251,000 super. feet	76,090,000 super. feet
Scrub Hardwoods	12,258,000 super. feet	9,455,000 super. feet
Cypress Pine	31,259,000 super. feet	28,129,000 super. feet
Kauri Pine	5,821,000 super. feet	4,799,000 super. feet
Cabinet Woods	24,876,000 super. feet	21,128,000 super. feet
Miscellaneous Species	23,510,000 super. feet	25,712,000 super. feet
Plantation Timbers	11,455,000 super. feet	14,111,000 super. feet
Stumps and Flitches	38,000 super. feet	58,000 super. feet
Total Crown Mill Logs	240,737,000 super. feet	224,466,000 super. feet
(b) Construction Timbers—		
Headstocks, Transoms,		
Crossings, Braces	534,084 super. feet	347,617 super. feet
Sleepers	878,448 pieces	649,818 pieces
Girders, Corbels, Piles,	∫ 83,296 lineal feet	90,879 lineal feet
Sills and Girder Logs	€291,993 super. feet	368,943 super. feet
Poles	461,189 lineal feet	578,732 lineal feet
House Blocks	310,793 lineal feet	286,457 lineal feet
Mining Timbers	337,977 lineal feet	300,924 lineal feet
Mining Timbers	53,103 pieces	49,404 pieces
Gross Receipts from		
Timber Sales	£2,513,058	£2,046,786
Net Revenue	£1,523,909	£1,205,318

		•		Class.						Quantity.	Expend	iture	•
and One and a d	-		•	·						Super. feet.	£	<i>s</i> .	d.
outh Queensland– Hoop and Bun		Δ								22,858,974			
Kauri Pine	y (4 1 111			•••	••	••	••	••	•••	162			
Forest Hardwo	oda		••	••	••	••	••	••	••	1,126,433			
Serub Hardwoo		•••	••	•••	••		••	••	••	171,672			
Miscellaneous										403,943			
Cedar	•••		•••	••		•••	•••			10,939			
										24,572,123	231,068	12	1
orth Queensland-	_								ľ				
Kauri Pine										259,551			
Cabinet Woods		• •		۰.	• •	••		••		5,113,770			
Forest Hardwo		••	••	• •	••		••		[924,449			
Scrub Hardwoo	ds		• •	۰.	••		••	••		1,199,046			
Miscellaneous				• •	••		••			3,517,469			
Cedar	••	••	••	••	••	••	••	••	•••	65,413			
								• •	-	11,079,698	112,071	2	7
т	otals	••		••						35,651,821	343,139	14	8

Logging.—During 1954-55 the following quantities were hauled by, and payment made to, contractors to the Department:

Sandalwood and Rosewood.—No Sandalwood or Rosewood was purchased or exported during the year. Stocks of Rosewood on hand at 30th June, 1955, totalled 215 tons 9 cwt.

The Plywood Industry.—Manufactured deliveries from plywood and veneer mills during the year 1954-55, as compared with the previous year, were as follows :

Through the Southern Board Through the Northern Board	••	 •••	 1953–54. Square feet. 69,468,212 52,076,480	1954–55. Square feet. 75,336,255 55,852,374	
			121,544,692	131,188,629	

Distribution of production for 1954-55 was as follows :

								Southern Board.	Northern Board.	Total.
Queensland Interstate Overseas	 	•••	 	 	•••	•••	 	Sq. ft. 20,145,293 54,941,366 249,596	Sq. ft. 16,980,565 38,859,419 12,390	Sq. ft. 37,125,858 93,800,785 261,986
	Total	••	••	••	••	••	•••	75,336,255	55,852,374	131,188,629

Timber Felling and Timber Getting Award—State.—During the twelve months under review the basic wage under the above award remained at £11 11s. which was the wage declared on 12th February, 1954.

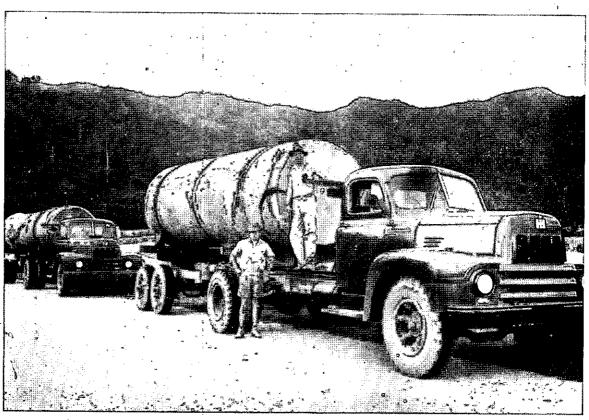
Hewn Timber Prices.—During the twelve months under review the prices of hewn timbers have been increased as follows :

Class of Tim	As at 1-7-54.	From 1–3–55.						
Sleepers—squared 7 feet per 100 pieces Sleepers—hogback 7 feet per 100 pieces Crossing timbers per 100 super. feet Transoms per 100 super. feet Braces per 100 super. feet Headstocks per 100 super. feet 12 inches	 	•••	 	· · · · · · · · · · · · · · · · · · ·	···	· · · · · · · · ·	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Constructional Timbers—Departmental Contracts.—A comparison of supply of constructional timber from Crown lands with the two previous years is as follows:

	Class of Timber. 1952–53.						1∂53–54.	1954-55.		
Sleepers Crossings Transoms Bridge timber (Bridge timber)			· · · · · · ·	•••	 	1,103,453 pieces 266,436 super. feet 226,789 super. feet 51,780 lineal feet 25,674 super. feet	559,786 pieces 280,601 super. feet 130,326 super. feet 16,658 lineal feet 16,154 super. feet	412,742 pieces 115,805 super. feet 125,058 super. feet 37,259 lineal feet 31,086 super. feet		

NATURE'S PRODUCT.



The Growth of Centuries—Two Kauri Pine Logs containing 10,350 super feet. The total cut of Hoop, Bunya, and Kauri pine from Crown lands has fallen from 155,640,000 super feet in 1940-41 to 49,783,000 super feet in 1954-55.

MAN-MADE FOREST.



Kauri Pine Plantation—Age 19 years. The total area of pine plantation established in the past year was 5,072 acres, bringing the total area to date to 63,134 acres.

Logging Roads—1954-55.

Expenditure by Main Roads Department :---

									£
Construction	 	••					••	••	49,471
Maintenance	 		••	••	••	••	••	••	53,830

Forestry Department road programme for the year constituted 85 miles 61 chains of construction. Location and working surveys covering 131 miles were carried out.

Expenditure from Forestry votes was as follows:

Ŭ							£
Construction		••		 ••	••		148,376
Maintenance	••			 	••		45,386
Subsidies to Shire Councils				 ••	••		18,002
Investigation Surveys			••	 	••	••	2,108
Workers' Compensation		••		 			226
Pay Roll Tax	••			 ••	••		1,870
•							£215,968

SAWMILL LICENSES.

The policy was continued of granting new Licenses only after the fullest consideration, with particular regard being paid to the effect the granting of such applications would have on the existing industry.

Over the year an average of 730 mills were in operation.

The following table sets out the position of current licenses at the beginning and end of the year, new licenses issued and the number that have not been renewed :

Number of Licenses as at 30th June, 1954.	Sawmill Classific:	tion.		New Licenses Granted.	Licenses not Renewed.	Mills Re-licensed.	Restrictions Withdrawn.	Formerly Restricted now Unrestricted.	As at 30th June, 1955.
1,008	General Mills			6	171				843
32	Case Mills	••	• • •	2	12	¦			22
40	Sleeper Mills		• • •	5	16			••	29
20	Other restricted	••		1	9			• •	12
61	Resaw and dressing	••	• •	3	9	••	••		55
1,161				17	217	·			961

These figures reveal a retirement of 200 mills from the industry. This is due principally to the increasing shortage of log supplies. Throughout most of Queensland the forests are incapable of the permanent support of the already existing industry and until the growth capacity of the forests has been increased, the difficulties of securing log supplies will be accentuated yearly.

OFFENCES.

During the year ended 30th June, 1955, officers reported on 246 cases of breaches of Acts and Regulations administered by the Department.

Proceedings were successfully instituted against 19 people. Of these, 11 were proceeded against for unauthorised cutting or removal of timber, 3 were prosecuted for unauthorised fires, one for unauthorised ringbarking and 4 for breaches of the Timber Users' Protection Act. Fines totalling \pounds 170 were imposed.

In addition, the Police instituted proceedings against 3 persons, as a result of which fines totalling $\pounds 12$ were imposed.

In 76 cases of unauthorised timber operations, where it was considered offences did not warrant proceedings, the value of timber was collected and warnings issued, whilst in 21 instances of minor offences no action was taken other than to issue warnings. In 17 cases of unauthorised ringbarking, appropriate action was taken.

As a result of action in all cases, an amount of £4,334 was recovered by the Crown in timber revenue.

The number of complaints received from householders under the Timber Users' Protection Act in respect of the use of lyctus susceptible timber showed a decrease of 30 on last year's figures, 81 cases being investigated by officers of the Department. The Department continued its policy of encouraging the builder to remedy the position and in 46 of these complaints investigations by Forest Officers were responsible for having the defects remedied. In most cases this consisted of having the affected timber replaced.

In 4 cases it was necessary to take proceedings and fines totalling £80 were imposed.

In 19 instances it was found that complaints were either of a minor nature or not within the scope of the Act. The remaining cases are still receiving attention.

FOREST PRODUCTS RESEARCH.

The year's work has been directed to three avenues—

- 1. Extension activities in saw and plymill practice and seasoning.
- 2. Studies in sawmill economics to determine real log values and provide lines of action for extension work.
- 3. Studies of physical properties of the wood of plantation conifers, with special reference to anatomical features and the Department's tree breeding programmes.

Close co-operation has been maintained with Division of Forest Products, C.S.I.R.O., the Government Botanist and Standards Association of Australia. Acknowledgement is due to various trade associations and individual firms for assistance in several phases of this work.

The appointment of a qualified officer to North Queensland has proved of considerable benefit to the local industry. Technical help and advice has enabled individual mills, sensible of the advantage to be gained, to increase their efficiency.

Limitations in the recruitment of properly trained staff have, however, constrained the scope and quantity of extension and research work and, as a result, work of value both to the Department and the industry has had, perforce, to be left undone.

Engineering and Sawmill Economics—1. Extension Services.—Attention to efficient sawmill practices was continued during the year, particularly in the hardwood industry. Designs were prepared for four McCashney incinerators, and attention given to economic methods of waste disposal.

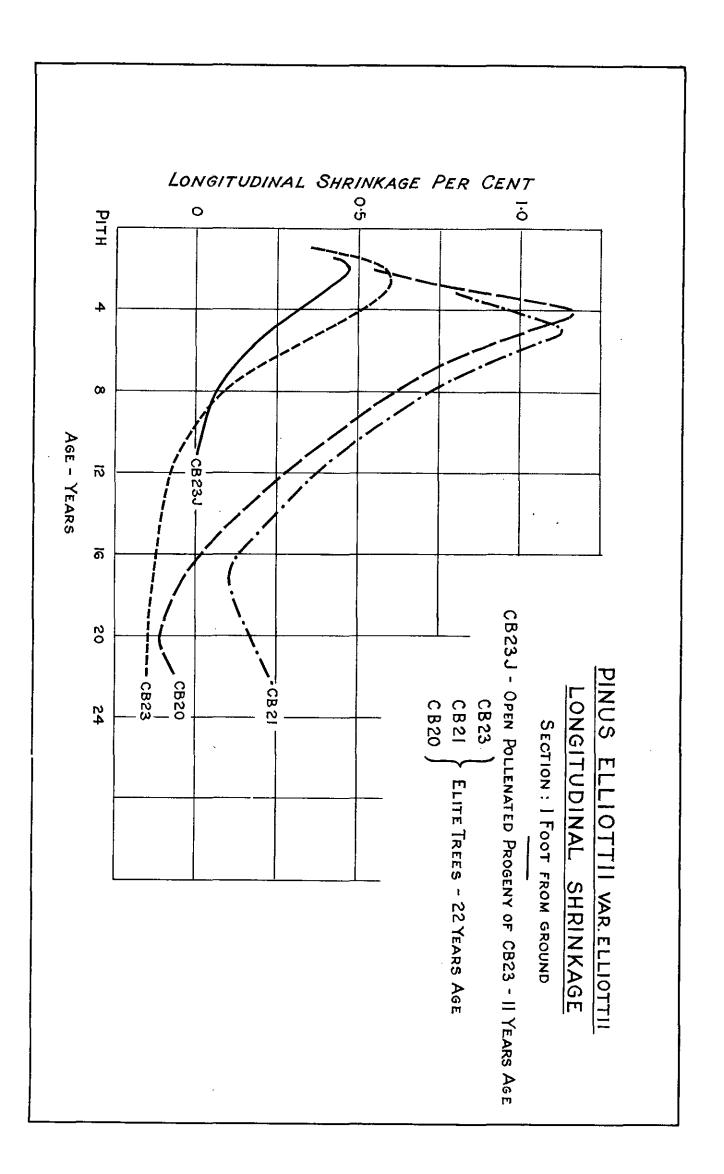
It is pleasing to record the installation of a modern precision log breakdown carriage at Messrs. Hyne and Sons' Maryborough mill, designed to handle hardwood logs. This is the most significant advance in the industry in Queensland for many years. While there is little opportunity for the use of a fully mechanised carriage of this nature in the majority of mills, because their limited log input does not warrant the capital expenditure, the technique and sawing patterns adopted should quite easily be used to very great advantage in the hardwood industry. They are essentially simple, but call for mechanically accurate carriages.

Too little thought is given by industry to efficient use and maintenance of breakdown equipment and, consequently, man hour production is far too low. Inefficiency cannot continue to be covered by price increases for sawn timber, for it is now apparent that rising costs can only be countered by increased man hour production.

The necessity for better management and organisation can be illustrated by the following table, which has been developed from previous studies of hardwood milling in Southern Queens-land.

The efficiency index quoted was developed from a consideration of average wholesale price received for the sawn product, production rate per man hour, recovery as a percentage of gross Hoppus volume, log quality and size.

				Mill.					Production Rate Super. ft./man hr.	Recovery Per cent. G.H.V.	Efficiency Rating
1									55.7	45.5	148.2
2									43.0	46-3	112.5
3	••	••	••	••	••				44.1	47.6	112.3
4	••	• •	••	۰.	••		••		46.6	48.9	110.8
5	••	••	••	••					43.2	46.7	105.5
6	• •	••	••	••			••		43.1	48.5	100.8
7	••	••	••	••	••	• •	••	••	39.7	45.6	98-9
8	••	••	••	• •	••	••			39-3	47.6	95.6
9	• •	••	••	••	••				40.4	48.3	94.8
10	••	• •	••	••	••	• •		••	37.1	47.1	92.1
11	••	••	••	• •	••	• •		• •	34.0	$45 \cdot 1$	83.6
12	• •	••	• •	••	••	••	••		34.5	48.6	80.0
13	••	••	••	• •	••	••	• •	••	3 2·1	$46 \cdot 4$	79-3
Aver	age	••	••	••					40.8	47.1	100.0



The difference between mills 1 and 13 amounts to approximately 20s. at present cost levels, and it is quite apparent that it is not due to log quality or size, nor is it due to any significant differences in basic milling equipment. It is a reflection of superior operational control and attention to accuracy and planned technique in the head saw rig.

The opportunities for savings in milling costs are all too apparent.

2. Sawmill Economics,

Five mill studies were carried out during the year, namely :---

- (1.) **Plantation Thinnings—P. taeda and P. elliottii.** This study sought tree values for various site qualities (as reflected in predominant height) and various girth breast high classes.
- (2.) Silky Oak (C. sublimis) North Queensland. To determine sawn recoveries and production rates by log girth classes.
- (3.) Mackay Rain Forest Species. Determination of sawn recoveries and production rates by log girth classes for eight rain forest species. The two principal species were White Cheesewood (*Alstonia scholaris*) and Red Siris (*Albizia toona*).
- (4.) Forest Red Gum (E. tereticornis)—Mackay. To determine average recovery of sawn timber and effect of excessive hidden defect (which occurs in this species in the Mackay areas) on log price structure.
- (5.) **Cypress Pine.** A special study was made to provide specific information on production deficiencies for a particular mill, as a basis for redesign of break-down facilities and reorganisation of the mill.

The co-operation of individual mills and trade organisations in these studies is freely acknowledged.

3. Research.—Little progress was made in engineering research because of the difficulty of obtaining qualified technical staff. It was necessary to confine work to the further investigation of sawing patterns for plantation thinnings and special sawing projects required for investigation of physical properties of elite plantation trees.

Seasoning and Timber Physics—1. Seasoning.—It has not been possible to obtain a suitably qualified officer to take charge of seasoning work. No research work was undertaken and efforts had, perforce, to be concentrated on the maintenance of extension services.

The demand from the building trade and general public for moisture content determinations was maintained, 1450 samples being tested.

Climatic conditions during the year were unfavourable to air seasoning and this was reflected in the high level of moisture content in dressed flooring, chamfer boards and joinery material submitted for test.

This, again, highlights the generally poor standard of seasoning in the industry, and points to the need for adequate dry kiln capacity for general building and joinery timbers.

It has been known for a number of years that combined air and kiln seasoning of hardwood is not only practicable but is less costly than complete air or kiln seasoning. Until the industry installs adequate drying facilities the chronic shortage of dry dressed lines will continue.

Extension activities have revealed that, in too many mills where kilns are installed, there is a serious lack of knowledge of elementary principles of drying on the part of management and operators. In some instances wet and dry bulb thermometers were not in working order and most unsuitable rule of thumb schedules were in use, to the detriment of the quality and reputation of quite useful timbers.

Interest has been shown in North Queensland veneer mills in the C.S.I.R.O. screen drier for veneer, and designs have been provided for 3 driers of this type.

Considerable improvement was effected in veneer quality in several mills by recommendations for 2'' spacing of sheets in vertical racking for air-drying instead of the customary 1''. Due to the more even drying obtained this recommendation has halved the drying time and produced veneer with considerably less buckling and end splitting. 2. Timber Physics. P. elliottii var. elliottii—Inheritance of Physical Properties.—As a result of the severe cyclone of February, 1954, three good phenotypes (CB20, 21 and 23) of *Pinus elliottii* var. elliottii, each 22 years old, which had been selected on external morphological characters for breeding purposes, were blown down. Opportunity was taken to salvage the merchantable logs for studies of physical properties of the wood and seasoning behaviour of the sawn product.

Sample discs at various heights above ground level were forwarded to Division of Forest Products, C.S.I.R.O., for study of basic density, longitudinal shrinkage, fibre length and micellar angle. Parallel local studies of basic density and longitudinal shrinkage and any occurrence of spiral grain were undertaken, and the logs sawn to a pattern designed to subsequently correlate stability and seasoning behaviour with position of board in the tree.

Two open pollenated progeny of Tree CB23, each aged 11 years, were also included in these studies.

Points of interest in the results are-

- (1.) Little or no evidence of spiral grain was found in any parent or the two progeny.
- (2.) Provided sawn material was free of pith its stability and seasoning behaviour were entirely satisfactory. Pieces containing pith were subject to severe twist and were unsatisfactory for any use except low grade case manufacture.
- (3.) Considering longitudinal shrinkage, tree CB23 was better than the other two. It is of interest to note that CB23 was rated on external characters as the best of the three parents, followed by CB21 and CB20 in that order.
- (4) A close similarity in the trends of basic density and longitudinal shrinkage exists between the parent (CB23) and its progeny.

The trends of longitudinal shrinkage are illustrated on graph facing page No. 22 and while they are hardly evidence of transmission of these characters, or that significant differences exist between parent⁻, they are sufficiently interesting to warrant further study. It is, therefore, proposed to examine a range of parent trees and their progeny resulting from both "selfing" and cross pollenation.

P. elliottii var. elliottii—Development of Compression Wood.—During the February, 1954, cyclone large numbers of stems in the plantations of this species were blown from the vertical to varying degrees of lean. In these circumstances, the resulting compression wood in the leaning stems could become a serious defect.

Opportunity was taken to set up a series of field observations, and examination of two of the trees showed that by July, 1954, a distinct band of compression wood had appeared on the under side of the stem. Observations at regular intervals indicate that the whole tree axis is moving towards the vertical. This is illustrated by the photographs facing page No. 24. The height of this tree at July, 1954, was 25 feet and at this stage the tree had a $12\frac{1}{2}^\circ$ lean. A plumb bob was suspended from a point 15 feet high. It will be observed that the plumb line has moved nearer to the base of the tree. This movement amounted to 22. 8 inches by June, 1955—a period of 12 months.

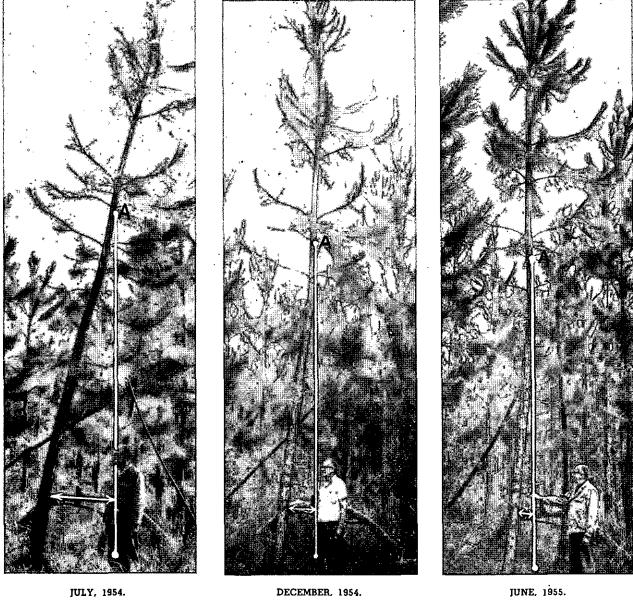
Araucaria cunninghamii.—Observations have been commenced on 25 select high pruned stems from a "plus" stand of Hoop Pine at Cpt. 13a Fraser L. A., Brooloo State Forest.

These stems had been removed in a thinning designed to encourage seed production from elite trees. They are representative of the better quality stems of this stand and ranged from $17\cdot2$ inches to $35\cdot3$ inches g.b.h.o.b. Observations of basic density and longitudinal shrinkage are progressing. All stems exhibited spiral grain to some degree—the majority to a minor extent. The trends are that spirality increases with increasing height and decreases with increasing diameter and thus seems to form a "core" of spiral grain. The maximum spirality observed was 1 inch departure in 6 inches length.

Due to the nature of the bark of Hoop Pine no external indications of spiral grain can be observed and special technique will have to be developed to determine its presence or absence in trees which may be selected for breeding.

Wood Anatomy and Utilisation.—Increase in the supply of imported woods and increasing use of lesser known rain forest species has maintained public demand for identification of wood specimens—some 2,027 samples being received during the year. PHOTOGRAPHS ILLUSTRATING RECOVERY OF A LEANING TREE TOWARDS ITS ORIGINAL VERTICAL POSITION.

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DECEMBER, 1954. PINUS ELLIOTTII—Development of Compression Wood.

400 botanical specimens, principally from field collections in North Queensland, were identified by the Government Botanist. Many of these were added to the Department's reference herbarium. 81 authentic wood samples backed by botanical identification were despatched to Division of Forest Products, C.S.I.R.O.

Two check lists of standard trade names and botanical identity for North and South Queensland timbers were issued to field staff during the year in order to encourage the use of standard names.

Collections of wood, bark and leaves for the phytochemical survey being undertaken by Division of Plant Industry, C.S.I.R.O. were continued, as was the supply of authentic material for research purposes by the Division of Forest Products.

Flood control in the Brisbane River by the Somerset Dam has resulted in low salinities for prolonged periods in the tidal reaches of the Brisbane River, and the danger of serious attack by Nausitoria on unprotected Turpentine (*Syncarpia laurifolia*) piles in valuable wharf structures has been increased considerably thereby.

If present salinity conditions continue it will probably be unwise to use any unprotected Turpentine piles above Pinkenba and permanent protection should be given to existing structures not previously attacked by Nausitoria.

Extension services in utilisation and preservation were maintained and a large number of enquiries concerning qualities and uses of native and imported timbers were received.

Wood Chemistry and Preservation.—1. Preservation.—Field tests of various oil borne preservatives have been commenced by the installation of some 1,600 treated and control stakes in two exposure sites.

Routine inspection of treatment plants operating, under the Timber Users' Protection Act of 1949, for preservation against attack by *Lyctus brunneus* Steph. was continued, particularly to check on maintenance of suitable toxic levels by operators.

Five new immunisation plants were brought into operation during the year, and numerous enquiries were received for advice in design and construction.

Two service tests of preservative treated railway sleepers were reinspected and experimental retreatments applied. Results are beginning to show the advantage of preservation. A survey of condemned sleepers withdrawn from service has been continued to determine the causes of failure. Analysis of the survey for the metropolitan area shows that the prime cause of failure is mechanical, through spike kill and splitting, and that plating of sleepers in heavy traffic lines could result in an increase in service life and an appreciable reduction in the annual maintenance requirement for sleepers.

Fungal decay was not a prime cause of failure in the durable species commonly used for sleepers, but it could become more serious as less durable species come into service. In view of the overall supply position, it appears that serious consideration must be given to the application of high pressure preservative treatment to sleepers and other permanent way timbers.

Preliminary arrangements have been made with Division of Forest Products, C.S.I.R.O., for high pressure treatment of experimental sleepers which will, subsequently, be placed in main line service for test.

There has been some interest on the part of Regional Electricity authorities in pole preservation, and a suitable hot-cold diffusion treatment plant has been designed for Cairns Regional authority.

Under the control of a special Committee, representative of the Department, Department of Agriculture and Stock and Housing Commission, close inspection of imported housing was intensified during the year, to determine the extent of infestation by the European House Borer (Hylotrupes bajulus). Three hundred and fifteen houses have been examined and in approximately 10 per cent. of the houses attack was detected. The number of houses in which emergence of adults has occurred is regarded as sufficient for mating to have taken place if many of the emergences were concurrent.

So far there is no evidence of any reproduction or re-infestation. The position is under close scrutiny and consideration is being given to control measures. 2. Timber Users' Protection Act.—During the year 81 complaints were received of offences against the Act by builders and sawmillers. An intensive inspection of current building activities in the metropolitan area and country towns was maintained. 270 buildings under construction were inspected and builders and contractors advised of their responsibilities under the Act. Three imported timbers susceptible to Lyctus attack were brought within the provisions of the Act.

3. Plywood and Veneer.—The industry has shown marked interest in the technique of manufacture of "hot" press plywood. However, unless the standard of veneer seasoning is raised and much better control maintained over moisture content, serious faults in hot press plywood must continue to occur.

Difficulties in delivery of special laboratory equipment ordered during the year have curtailed experimental work on the application of urea formaldehyde and phenolic resins to local species and conditions. Pilot experiments in glued laminated construction of beams using plantation grown *Pinus elliottii* were undertaken, with promising results.

Special veneer paper boards and veneer-metal sheets were tested to A.S.T.M. Standards for industry and reports issued to interested mills.

4. Laboratory.—Laboratory work was again affected by an inefficient ventilating system and it was found necessary to conduct specific experiments as a basis for design of an efficient scrubber to remove hydrochloric acid vapour from the system.

The following analyses were made during the year:

Preservation	••	 	• •		••	810
Plywood and veneer	••	 		••		2,746
Soil and water	••	 ••		••	••	355

Experimental Yard.—Operations and staff remained at a satisfactory level during the year, but it is even more apparent that lack of space at its present site is restricting efficient working. It is hoped that an early start on the new buildings at Rocklea can be made in the forthcoming year.

The fancy wood section handled only material becoming available from experimental projects, and stocks were kept at a low level. During the year custom dressing of hardwood flooring for Department of Public Works and kiln drying of special charges for private industry on a semi-experimental basis, kept plant and equipment occupied for otherwise idle time and provided credit against the overall expenditure incurred in the maintenance of the yard.

STAFF.

At 30th June, 1955 there were 312 salaried officers on the staff as against 311 at 30th June, 1954. The number of wages men increased from 1,765 to 1,900.

There were thirty-three resignations during the year, including that of Forest Ranger H. L. Geisel (Dalby district). Mr. Geisel retired after twenty years of efficient service, during which he rose from the rank of workman to that of Forest Ranger.

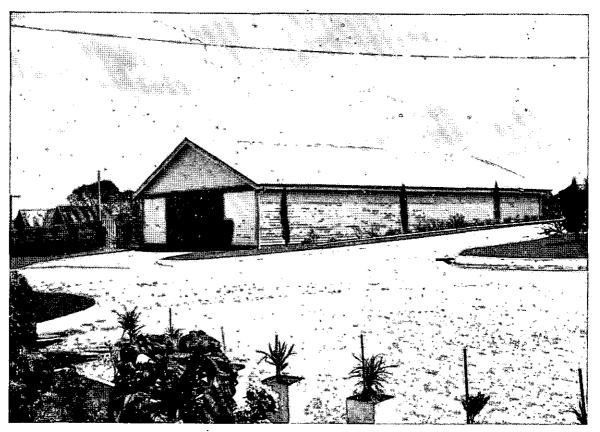
Two officers were retired after long and meritorious service—Mr. C. W. Corfield (Gympie) on 30th June, 1955, and Forest Ranger J. H. Bull (Brisbane), on account of ill health on 29th March, 1955.

With the death of Forest Ranger E. J. Pickford, Maryborough, in March, the Department lost the services of a valuable officer. Mr. Pickford, who died at the early age of 41 years, joined the Department in 1938.

ACKNOWLEDGEMENT.

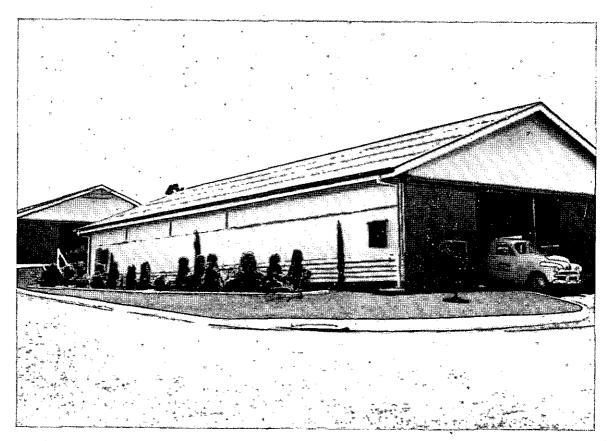
I desire to acknowledge a loyal and sustained effort on the part of officers and employees during the year.

> V. GRENNING, Director of Forests.



TWO VIEWS OF PART OF THE DEPARTMENT'S DEPOT AT SALISBURY, BRISBANE.

Bulk Store, with Nursery in background. Last year 34,547 trees were supplied from this nursery to the general public.



Storeroom and Workshop. From here stocks are supplied for the Forestry programme throughout the State.

Appendices.

APPENDIX A.

.

					INDIX						
turn of Timber,	, &c., I	Remove	d from	Crown	Lands	during	g the	Year	ended	30th J	une, 195
Species — Milling Timber	-								g	Quan	tity.
Hoop and B		ine—							Super.	teet.	Super. fee
Ply							••		5.7	17,096	
Logs	••			•• •		•••	••	••		19,206	
Tops	• •	•••	••	•• ••	• ••	••	••	• •		47,575	
Kauri Pine										00.007	44,983,8
Cypress Pine	э			•• •		••	•••	••		$98,895 \\ 29,254$	
Forest Hard		••	• •			•••		•••		90,018	
Scrub Hardy			••	•• •		••	• •	••		54,770	
Cabinet Woo Miscellaneou			••	•• ••		••	••	••		28,043	
Limb Logs,	Head L	ogs. Stur	 1 nns and 1	 Flitches		• •	••	•••		$12,450 \\ 57,607$	
		0,			••	••	••	••	<u> </u>	<u> </u>	165,371,(
Plantation I	hinning	gs									
Hoop P			••	•• ••	• • •			••	8,8	90,355	
Bunya l Kauri P			••	•• ••		••	••	••		8,583	
*Pinus el		••	••	•• ••		••	••	••		81,081	
Pinus to			••	•• ••		•••	••	••		43,217	
Pinus p	atula	••		••••••			••	••		$48,639 \\ 26,145$	
Pinus re		••	••	•• ••			••	•••		81,185	
Pinus in Pinus lo			••	•• ••	••	••	••	••		656	
Pinus lo Pinus ec				••••••		••	••	••		2,147	
Pinus co	nariens	 sis		•• ••		••	••	• :		2,512	
Cedrela	mexican	na		••••••		••	•••	••		449 9,710	
Cupressi	us lusite	anica		••••••		••	••			9,710 3,731	
Callitris		s	••	•• ••						8,535	
Silky Os	ık	••	••	•• ••	• •	••	••	••		4,146	1 / 1
* 61 •	D'-	e -	. –								14,111,0
Blash	r 100 -	referred t	to as P. (caribaea	n earlie	r reports.					224,466,0
										Expre	ssed as
									/***	Superfie	cial Feet
Other Classes-									(Ho	ppus) I	og Measu
Sleepers		••			••	3	45,135	pieces		13.	115,130
Sleeper Block	ts (as sl	leepers con	ntained)			3	04,683	pieces			968,588
Transoms, Cr Girders, Corb	ossings	, neadsto	CKS, LON	gitudinal		3	47,617	superfic	eial feet		556,187
Girder Logs	ieis, Pii	es, 5111s, 1	-	-				lineal fo			635,822
Poles				••••••	•••			superfic lineal fe			$368,943 \\ 051,124$
House Blocks	s, Roun	d Posts		••••••				lineal fe			718,742
Foncing Mate	erial -S	split		• • • •	••	3	48,849	pieces			139,641
Fencing Mate Hewn and Br	nan—E Tanan	imborg		•• ••	••		62,733	lineal fe	et		156,832
Mining Timb	ers—Sn	olit		•• ••	••			superfic	al feet		162,299
Mining Timb	ers - Rc	ound		·· ··	•••			pieces lineal fe	et.		197,616
Stakes						•••		pieces			601,848 13,440
Miscellaneous	s Sawn '	Timber (o	offcuts)	• • • •	••	••		superfic	ial feet		8,398
										36	694,610
Fuol		4 -				4	61,131	tone			
Charcoal	•••				•••		33,705				
Trees and Pla	ints (Ni	umber)					13,563				
Sand, Gravel,	, Soil, &	ke		• • • •				cubic ya	ards		
Lawyer Cane Shell Grit		••		•••••	• •	••	40	tons	-		
Shell Grit Staghorns and	d Ferna			• ••	•••	••		tons			
Ti-tree Bark	d Ferns			• • • •	••	••		pieces			
Wattle Bark		••		• • •	••	••		tons			
Peat		••		• •	••	•••		tons bags			
Mulga Wood					•••	•••		tons			
						-					
				ייוסת ג	NTNT	в					
х	nnual	^ 1	inc T				001		105-		
		Cut-P	ше— г) — — —			ended	JUth	June,	1955.		
Forestry Dis	strict.			Ply.	.	Logs.		\mathbf{To}_{j}	ps.	ſ	otal.
			Su	per. feet.		Super. fee	et	Super			er. feet.
orton	• •	•• •	1	- ••		4,260			,260	սե	8,520
bane	••	·· ·	-	56,361		2,983,199		2,122	,234	5,1	61,794
nia	••	•• •		359,373		3,580,344		8,619		20,5	58,999
кау	••	•••••		182,401	1 1	,303,348			,097		95,846
to	••	•••••		631,895	1	234,912		168 1,440	,694 841		03,606
									- (149-1	X - X	
borough	• •						I				27,416
vborough wick			. 1,	487,066		,995,321		4,752	,568	12,2	34,955
mint-	• •		. 1,	487,066	3 			4,752		12,2	

5,717,096

21,219,206

44,983,877

18,047,575

28

APPENDIX C.

Receipts under the State Forests and Timber and Quarry Regulations for the Year ended 30th June, 1955.

			DIST	RICTS,								Tota £	LS. 8	d
Group	1-South Queen	eland (Briehand	Bur	dahara	Gumn	ia Mor	nto N	forvhore	unch 1	Convoor	mha		8	a
									Augu, I		111.0009	1,110.093	13	4
Group	Yarrar •2Goondiwindi	. Inglowood, St	Geo	røe. Stan	thorpe	. War	wick		••			74,412	3	8
Group		· · · · · ·									•••••••••••••••••••••••••••••••••••••••	73,585		9
Group	4-Charleville, C	unnamulla. Ro	ma. (Juilpie								287		10
Group	5—Barcaldine, I				Mutt	aburra		nehenge.			mac.			
T .		d, Jericho			•••		••	••		•••		728	16	6
Group	6-Clermont, Er	nerald, Springs	ure				••	• •				4,123	14	7
Group	7-Gayndah, Gl	adstone, Taroo	n, Th	neodore, I	Mundu	ibbera	••	• •				774	1	_
Group	8-Rockhampto	n	•••		••	••		••			••	1,664		2
Group	9Mackay			••	••	٠		••	• •			10,535		1
	10—Bowen	•••	• •	••	••	••	••	••	••	••	••	3,142		3
	11—Townsville					••		۰.		••	••	3,964		
	12—Charters Tow	ers, Ravenswo	od	••	••	••	••	••		••	••	236		
	13—Hughenden			••	• •		••	••	••	••	• •	95		2
Group	14—Cloncurry, B	oulia, Kynuna,	Macl	xinlay	•••	••	••	••		••		202	19	1
Group	15—North Queer		n, He	erberton,	Cookt	town, i	Port	Douglas	, Cairr	ns, Inni	sfail,			
	Inghar			••			··	· · · .	. : •	••	• •	538,278	6	4
Group	16-Burketown,	Coen, Croydon,	Geor	getown,	Norms	inton,	Thurs	sday Isl	and		••	4	4	0
												41 222 100		
												£1,822,130		7
	s—Forestry and		••	••	••	••	••	••	••	••	••	197,526		2
	Plants, Material,		••	••	••	••	••	••	••	••	• •	19,165		7
	s* (See note after		• •	••	• •	••	••	••	• •	••	••	2,186		
Rents a	and Grazing Dues	•••	••	••	••	••	• •	••	••	• •	• •	6,934	10	Ð
												82.047.044	15	
												£2,047,944		0
	Less T	reasury Refund	s	••	••	••	• •	••	••	••	••	1,159	1	6.
												69.040.795	19	6
												£2,046,785	19	0
		Γc	MPAR	RISONS W	ריים דרי	TATS	OF P	REVIOUS	VEAD	s.				
		5-			·		~* 11			-		1054 55		
	1950-51.	1951-52			1952 -				53-54			1954-55.		
	£1,279.446	£2,182,40	ΰ	-	£2,541,	904		£2,8	513,058	\$.		£2,046,786		

APPENDIX D.

Proceeds of Sales of Timber, &c., for the Period 1st July, 1951, to 30th June, 1955.

Districts.				1951-52.	1952-53.	1953-54.	1954-55.
Group 1 Group 2 Group 3 Group 4 Group 5	 	 	 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Group 6 Group 7 Group 8 Group 9 Group 10 Group 11 Group 12 Group 13 Group 14 Group 15 Group 16	· · · · · · · · · · ·	· · · · · · · · · · · · ·	· · · · · · · · · · · · · · ·	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Receipts—F Lumber Sale of Plant Licenses [*] Rents and G	ing ts, Mat	crial, &	and 	1,883,168 8 3 285,073 18 4 27,909 5 3 Not - previously 5,475 16 11 2,201,627 8 9	1,968,414 12 9 558,492 1 7 13,296 7 11 recorded separately 6,078 2 7 2,546,281 4 10	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Less Treas	sury Ro Fotal	efunds		2,201,021 0 0 19,220 18 9 2,182,406 10 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

• Includes the following license fees :- Fuel, Quarry, Royalty, Brand, Sawmill, Apiary, Forest Products.

APPENDIX E.

 $\mathbf{29}$

(Botanio	Species—Standa al Names and Co	ard Trad	e Name ames ir	S. Brack	ets)			g Class.	Dell	Price per 1 (Hoppus	00 super. fec measure).
							. .	g Class.	Delivery.	As at 1–7–54.	From 7-8-54.
Red Tulip Oak	(Argy r odendro	n perala	utum)		••		8 ft. plu	ls .	. F.o.r. Cairns	s. d. 35 5	8. d. 35 5
Red Cedar (Ceda	rela toona)						8 ft. plu		F.o.r. Townsville. F.o.r. Cairns	35 5 65 5	35 5
North Queenslar	nd Kauri Pine	(Anath	is natr	nerstor	(i)		6 ft. plu 8 ft. plu	18 .	. F.o.r. Brisbane	73 4	$\begin{vmatrix} 65 & 5 \\ 73 & 4 \end{vmatrix}$
Queensland Wal					,		-		F.o.r. Townsville.	55 5 5 5 5 5	55 5 55 5
				,	••	••		8 ft. 11 in.	F.o.r. Townsville.	$\begin{array}{ccc} 46 & 4 \\ 46 & 4 \end{array}$	46 4 46 4
Northern Silky (••	••	8 ft. plu	s .	F.o.r. Cairns	55 5 5 5 5 5	55 5 55 5
Queensland Map		-	ana)	••	••	••	8 ft. to	8 ft. 11 in.	F.o.r. Cairns	60 5	60 5
Black Pine (Pod	ocarpus amara	;)	••	•••	••	••	8 ft. plu	s.	F.o.r. Cairns	$\begin{array}{ccc} 60 & 5 \\ 45 & 5 \end{array}$	60 5 45 5
Silver Silkwood	(Putts Pine) (i	Flinder	ria acu	iminat	a)		8 ft. plu	s.		$\begin{array}{ccc} 45 & 5 \ 55 & 5 \end{array}$	45 5 55 5
White Beech (Gr	nelina leichhar	rdtii) (G	melina	s fascie	culiflora)	8 ft. plu	s.	F.o.r. Townsville.	55 5 55 5 55 5	55 5 55 5
Hickory Ash (H	(korv) (Flind	ersia iff	laianu	•			6 ft. plu 8 ft. plu	-	F.o.r. Brisbane	58 4	58 4
Northern Silver	Ash (White As	sh) (Fli	ndersi	a pube	scens)	•••	8 ft. plu		F.o.r. Cairns	$\begin{array}{ccc} 45 & 5 \\ 55 & 5 \end{array}$	45 5 55 5
Queensland Silve	er Ash (Ash) (A	Flinder	sia bor	ırjotiaı	na)		8 ft. plu	a .	F.o.r. Townsville	55 5 5 5 5 5	55 5 5 5 5 5
Bolly Silkwood (Tarzali Silkwo	ood) (<i>C</i> 1	runtoco	urua ob	lata)		8 ft. plu		F.o.r. Townsville F.o.r. Cairns	55 - 5	55 5
Satin Sycamore					,		8 ft. plu		F.o.r. Townsville.	35 5	$ \begin{array}{rrrr} 35 & 5 \\ 35 & 5 \end{array} $
Yellow Walnut (,	• •	••			F.o.r. Townsville.	$\begin{array}{ccc} 35 & 5 \\ 35 & 5 \end{array}$	$ \begin{array}{rrrr} 35 & 5 \\ 35 & 5 \end{array} $
	Deuschmieala	oancroj	<i>t</i> 11)	••	••	••	8 ft. plu	5	F.o.r. Cairns F.o.r. Townsville.	$egin{array}{cccc} 35 & 5 \ 35 & 5 \ \end{array}$	$ \begin{array}{rrrr} 35 & 5 \\ 35 & 5 \end{array} $
Hardwoods	••• •••	••	••	••	••	• •	6 ft. plu		TT T. 1.	30 5	30 5
Hardwoods	••••••	••	••	••	••	• •	6 ft. plus		F.o.r. Maryborough, Bundaberg	29 11	$29 \ 11$
Hardwoods	•• ••	••	••	••	••	• •	6 ft. plus	· · ·	F.o.r. Rockhamp-	34 7	34 7
Lardwoods	••••••	••	••	••	••	••	6 ft. to 6	ft. 11 in.	ton F.o.r. Townsville	32 11	$32 \ 11$
Lardwoods							6 ft. plus		F.o.r. Mackay	$33 \ 2$	33 2
Loop Pine Ply Loop Pine ''A'' (Juality Logs	••	••	•••	••	•••	7 ft. plus 7 ft. plus		F.o.r. Brisbane	81 9	81 9
Sunva Pine Loga				•••		••	7 ft. plus		F.o.r. Brisbane F.o.r. Brisbane	$\begin{array}{ccc} 66 & 1 \\ 64 & 7 \end{array}$	$\begin{array}{ccc} 66 & 1 \\ 64 & 7 \end{array}$
Ioop Pine " C " Ioop Pine " D "	Quality Logs	• •		••	••		7 ft. plus		F.o.r. Brisbane	42 10	$\begin{array}{ccc} 64 & 7 \\ 42 & 10 \end{array}$
Loop Pine '' D ''	Quality Logs		••	••	••	••	7 ft. plus	· · · ·	F.o.r. Brisbane	40 6	40 6
unya Pine Tops ypress Pine—1s	s	••	••	••	••	••	7 ft. plus		F.o.r. Brisbane	40 6	4 0 6
3 Proce T 110-15		••	••	••	••	•••	28 in. plu	15	F.o.r. Brisbane F.o.r. Gympie,	29 4	34 7
outh Queensland	l Scrubwoods-	<u> </u>							Maryborough, and Bundaberg	26 4	31 7
Case and Build Common Cabin	ing Timbers G	roup (a)		••	••	•••	6 ft. plus		F.o.r. Brisbane	33 7	33 7
Special Purpos	e Timbers Grou	P (0)	••	 	••	•••	6 ft. plus 6 ft. plus		F.o.r. Brisbane	35 6	35 6
Pos		~P (0)	•••	••	••		o re. pros	••	F.o.r. Brisbane	37 5	37 5

The following Schedule illustrates the market price of logs during the year 1st July, 1954, to 30th June, 1955:-

Brown Alder (Ackama paniculata)

Biown Alder (Ackama paniculata) Red Apple (Eugenia brachyandra) Blush Coondoo (Planchonella richardii) Rose Satinash (Eugenia francisii) Mararie (Pseudoweinmannia lachnocarpa) Pink Poplar (Blush Cudgerie) (Maidens Blush) (Euroschinus falatus)

falcatus) Brush Mahogany (Red Carrobean) (Geissois benthami) Yellow Carabeen (Carrobean) (Sloanea woollsii)

Bollywood (Brown Bollywood) (Bollygum) (Litsea reticulata) Tulip Plum (Burdekin Plum) (Pleiogynium cerasiferum) Brown Tulip Oak (Crows Foot Elm) (Argyrodendron trifoliolatum)

trijonotaum) Silky Beech (Citronella moorei) Rose Walnut (Endiandra discolor) White Birch (Schizomeria ovata) Blush Walnut (Beilschmiedia obtusifolia)

Rose Maple (Rose Walnut) (Pigeonberry Ash) (Cryptocarya

erythroxylon) Blush Alder (Sloanea australis)

(b) Common Cabinetwoods Group includes the following species :----

Rose Mahogany (Dysoxylum fraseranum) Southern Silky Oak (Grevillea robusta) Silver Quandong (Elæocarpus grandis) Miva Mahogany (Dysoxylum muelleri) Sassafras (Daphnandra micrantha and Doryphora sassafras) (c) Special Purpose Timbers Group includes the following species :----

Brown Pine (She Pine) (Podocarpus elatus) Silver Sycamore (Cryptocarya glaucescens)

Crows Ash (Flindersia australis) Ivorywood (Siphonodon australe) Southern Silver Ash (Bumpy Ash) (Flindersia schottiana)

Yellowwood (Flindersia xanthoxyla) Yellow Boxwood (Planchonella pohlmaniana)

APPENDIX F.

Constructional Timber supplied during Financial Year 1954-55 under Forestry and Lumbering Operations.

	Ch	ass of 7	limber.				Quantity.	Sales V	'alue.
Sawn Crossings						 	2,552 superficial feet		s. d.
Hewn Crossings			••			 	113,253 superficial feet	4,742 1	1 10
Leadstocks, Longitu	ıdina	ls and l	Braces			 	31,086 superficial feet	1,382	7 11
Iewn Transoms			••	• •		 • • •	121,910 superficial feet	5,570 1	
awn Transoms			• •			 ••	3,148 superficial feet	131 1	1 8
irders—Dressed		••	••	••	• •	 	9,952 lineal feet	6,965	7 0
riles	••		••	••	••	 	24,730 lineal feet	7,162	4 1
ills			۰.			 	2,577 lineal feet	684	4 8
Poles			• •			 	16,405 lineal feet	2,448	9 5
Round Posts			۰.			 	3,653 lineal feet		26
plit Posts and Rail	s		۰.		••	 	34,401 pieces	3,976	8 7
Lewn Sleepers			۰.			 	74,619 pieces	39,217	65
Sawn Sleepers			••		••	 	33,440 pieces	15,953 1	74
Sleeper Blocks (as sl	leeper	s conta	ined)			 	304,683 pieces	121,469 1	1 8
	To	tal	••	••		 		£210,291	5 7

APPENDIX G.

Comparative Statement of Expenditure for Years 1953-54 and 1954-55.

· _								1953-54.	1954 - 55.
								£	£
Revenue								222 - 22	0.00
		••	• •	••	••	••	••	229,579	243,803
	•	••	••		••	••	• • •	26,094	28,701
Extra Living Allowances .			••			••		1,628	1,722
Trans Deinting Stants Bo	•	••		••			• • •	5,377	6,872
Cash Equivalent Extended Leave	а				••	••		2,553	1.244
National Darles				••	••			29,643	45,199
Deferentation	-	••						8,916	
A							1	78,405	138.271
		••	••	••	••	••	•• [40,000*	
	•	••	••	••	••	••	••	61,131	117,712
	•	••	••	••	••	••	••	01,131	117,712
Loan—								1 050 000	1 051 050
Reforestation	:_	••	••	••	••	••	• •	1,059,000	1,371,656
Acquisition of Land for Forestry	Purpe	Se8		••				4,175	9,645
Trust—									
Hardwood Supplies to Railway I	Departs	ment	and (Others	••		• • •	247,800	190,886
Harvesting and Marketing Timbe	er		••		••			667,072	540,675
Access Roads-Maintenance and		dies						45,898	77,698
Maintenance of Capital Improver			••	••	••	••	•••	28,379	32,208
Total							£	2,535,650	2,806,292

* Special grant made under Forestry vote for this year. The amount was expended by the Main Roads Department on behalf of the Forestry Department on access roads in North Queensland.

APPENDIX H.

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Summary of Reforestation Expenditure, 1954-55.

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									1,403,864						

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APPENDIX I.

	Species.				Brisbane.	Brisbane Valley.	Gympie.	Mackay,	Mary- borough.	Monto.	Warwick.	Queens- land Totals.
					acres.	acres.	acres.	acres.	acres.	acres.	acres.	acres.
	_					Softwood.	8.					
A. Native Conif	ers—						ŧ	1			I	,
Hoop Pine	••	••	••		197.3	577-0	505-5	• •	108-6	165.4		1,553.8
Bunya Pine	»	••	••	••	$2 \cdot 0$	• •		• •	1000			2.0
_Other Nativ	ve Conife	13			0.3	• •						0.3
B. Exotic Conif	ers—									••	••	0.3
P. elliottii*		• •	• •		1,136-0		773.7	228.3	832-6	4.3	10.0	2.984.9
P. taeda	• •		• •	• •	13.0	• •						13.0
P. patula		••			7.0	188.0			2.5		••	197.5
$P.\ caribaea$					l	- ,		168-3	2.5			170.8
P. radiata	• •		••			117.0			i i		 18∙0	135.0
P. palustris	••	••		• •	0.6			4.7	0.5			150.0
Others					8.0			0.6	0.5			9-1
. Broadleaved	Softwood	ls—			1				0.0		•••	9.1
Maple					·		5.0			[5.0
Red Cedar				• • •			10.0			••	(10.0
Others		• •					5.0	1	•• [••	••	
								• •			••	$5 \cdot 0$
Total	Softwe	oods	••	• •	1,364-2	882-0	1,299.2	401.9	947-2	169.7	28.0	5,092-2
						' Eucalypts	3.	I	ſ	4	ł	
uc. saligna		•••	••	• •	•• 1		••		1	!	1	Nil
ther Eucalypts	••	••	••	• • •	2-6							2.6
Ťotal	–-Eucaly	pts	••		2.6					···		2.6
m · 1	A 11 C			ŀ		·			———			
Total	—All Sp	ecles	••	• • •	1,366-8	882.0	1,299-2	401.9	947.2	169.7	28.0	5,094-8

Net Area of Plantation Established 1st April, 1954, to 31st March, 1955.

* Slash Pine—in earlier Annual Reports referred to as P. caribaea.

APPENDIX J.

Net Area of Effective Plantation Classified into Forestry Districts to 31st March, 1955.

Species.	North Queens- land.	Brisbane,	Brisbane Valley.	Cympie,	Mackay.	Mary- borough.	Monto.	Warwick,	Fraser Island.	Queens- land Totals.
	acres.	acres,	acres.	acres.	acres.	acres.	acres.	acres.	acres.	acres.
				Softwo	oods.					
A. Native Conifers	}	1	1	1	1		1			
Hoop Pine	574-2	2,305.8	12,956-1	13.320.4	15.4	4,186-0	1,839-1		126-1	98 939.1
Kauri Pine	285.0	1.7		1,460.6	0.7	4	· ·		69.7	35,323.1
Bunya Pine	0.8	23.8	8.0	242.4	1.7	14.8		··	09.7	1,817.7
Others	. 0.6	4.9	0.4	45.4	0.6	14.0	1	1 1		292-2
B. Exotic Conifers	.		1	10 1		1.1	••		0.6	53.6
P. elliottii*	7.8	7,381.3	916-4	3,410.0	1,182.1	3.984.7	66.6	443.5	0.0	10 000 1
P. taeda	13.7	3,224.6	41.4	102-1	9.8	84.9	1.0	220.7	$6.7 \\ 2.4$	17,399-1
P. patula	43.6	67.3	2,294.4	22.2	7.6	79.8	22.5	667.3		3,700.6
P. caribaea]	-,	2.7	234-1	11.4			3.4	3,208.1
P. radiata			215.5					419.4	••	248.2
P. palustris		246-2	2.6	1.2	5.8	1.0	••	419·4 8·2	••	634.9
Others	8-1	72-2	20.6	12.4	36.1	10.0	2.1		••	265.0
C. Broadleaved Softwoods—			-00	121	20.1	10-0	2.1	23.3	6.8.	191-6
Silky Oak	31.7		675.5	175-9		32.1		! !		915-2
Maple	$202 \cdot 3$			48.0			•••		••	250.3
Red Cedar	29.2			12.5				•••	••	250-3
Others	92-2	0.1		91.3		1.2	••		 0∙4	41·7 185·2
							••		0.4	185.2
Total Softwoods	1,289-2	13,327-9	17,130-9	18,947-1	1,493.9	8,407.0	1,931-3	1,782-4	216.8	64,526.5
·		. r	,	Eucaly	pts.	(· · · ·	I	
Euc. saligna)	0.7 ∣	36 •2 ∣	215.7	892.2		33.7)			1,178.5
Euc. paniculata	35-6	228.3	459-3	216.2		75-3			••	1,178.5
Euc. microcorys	27.7	215.4	28.7	17.5					••	289.3
Euc. pilularis	0.2	160-9						••	••	289·3 161·1
Other Eucalypts	4∙0	19.6	12.7	66-9						103.2
Total-Eucalypts	68·2	660-4	716.4	1,192.8	•••	109.0			•••	2,746.8
Total—All Species	1,357.4	13,988.3	17,847.3	20,139.9	1,493.9	8,516.0	1,931-3	1,782.4	216.8	67.273.3

* Slash Pine-in earlier Annual Reports referred to as P. caribaea.

APPENDIX K.

(Calendar	year	planting	includes	areas	established	to 31st	March of	succeedir	ng year.)	
Species.		1920 and Earlier.	1921-25	1926-30.	1931-35.	1936–40.	1941–45.	1946-50.	1951-54.	Total.
		acres.	acres.	acres.	acres.	acres.	acros.	acres.	acres.	acres.
				S	Softwoods.					
A. Native Conifers-	1		1		r i			I	r I	
Hoop Pine		21.0	184.5	1.784.5	4.320.5	9,611.6	2,238.7	10,697.8	6,464.5	$35,323 \cdot 1$
Kauri Pine		7.1	55.0	18.7	125.2	1.137.5	237.4	224.8	12.0	1,817.7
Bunya Pine		6.0	28.8	74.8	0.9	123.9		2.3	55·5	$292 \cdot 2$
Others		00	3.7	42.6	2.4	4.6			0.3	53-6
3. Exotic Conifers—	••	••		12.0		10	•••		Ű	
	1	1	6.7	48.1	1.991-6	1,130.8	506-5	3.683.4	10.032.0	17,399-1
	• •	••	0.7	32.5	561.3	550-1	453.0	1,284.7	819-0	3,700-6
	• •	••			160.1	462.4	189-0	1,2547	1,017.9	3,208-1
P. patula	••	••	$1 \cdot 0$	21.0	100.1	402.4		2.1	246.1	248-2
P. caribaea	• •	••	••	••		••	••			
P. radiata	••	• •	0.4	67.8	151-9	1.9	•••••	131-5	281.4	634.9
P. palustris		••	•••	0.2	28.1	108-7	44.1	45.8	38.1	265-0
Others		••	1.6	18.8	38.5	20.5	1.0	47.3	63.9	191-0
3. Broadleaved			•							
Softwoods—								•		
Silky Oak			3.1	538.8	286.7	86-6				915-2
Maple		0.8	11.9	49.1	93.6	63.4		14.0	17.5	250.3
Red Cedar		9.0		4.0	0.6	0.6	0.5	ļ ,.	27.0	41.
Others	•••	0.7	14.7	106.0	35.1	5.7	8-8	1.7	12.5	185-1
Total—Softwoo	ods	44.6	311.4	2,806-9	7,796-5	13,308.3	3,679-0	17,492.1	19,087.7	64,526.5
	1	· .		'	. ¹ Eucalypts.	l		1	•	
Euc. saligna				1.0	1.2	145.0	129.3	t 756·7	ı 145·3	1.178-5
	• •	••	••	1.0	532.1	402.1	77.3	1.8		1,014
Euc. paniculata	• •	• •	••			194-0	-	-	• •	289.3
Euc. microcorys	• •	••	• • •	5.3	90-0		••	6.1		161.1
Euc. pilularis	• •	••	• •	0.2	97-9	56.9	•••			
Other Eucalypts	•••		•••	0.5	6.4	22.7	9.4	35-1	29.1	103.5
Total-Eucaly	pts			8.4	727.6	820.7	216.0	799-7	174.4	2,746-8
TotalAll Spe	eies	44.6	311.4	2,815.3	8,524.1	14,129.0	3,895.0	18,291.8	19,262.1.	67,273.

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Net Area of Plantation Effective at 31st March, 1955, Classified into Five-yearly Establishment Periods.

* Slash Pine-in earlier Annual Reports referred to as P. caribaea.

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			Eucalypts. (Acres.)			Softwoods. (Acres.)			Other Specie (Acres.)	q.	All Speci (Acre
Working Plan Area.	Reserve No.	Treated 1954–55.	First Treatment 1954–55.	Total as at 30th June, 1955.	Treated 1954–55.	First Treatment 1954–55.	Total as at 30th June, 1955.	Treated 1954–55.	First Treatment 1954-55.	Total as at 30th June, 1955,	Total at 30 Jun 195
Brisbane	69	••		1,535]			 1,5
	1,376	334		1,450			••			••	1,4
	215	·i10	•••	$925 \\ 2,060$	••	••		••	••	••	$\begin{vmatrix} 9 \\ 2,0 \end{vmatrix}$
	702 494	300	· · ·	2,000						••	,°
	446			1,094							1,0
	667	8		914	••	••	••			••	3,0
	$309 \\ 1,355$	262	•••	$3,073 \\ 1,625$	••	••	••			••	1,6
	727	205		976	••	•••	••	••		••	Í
		1,219		14,586			• •	• •			14,8
Brisbane Valley and	283		1	1,881	••					40	1,9
Nanango	257			125	••	••	••	••		66	נן
	$299 \\ 527/8/9$	606		$50 \\ 5,476$	••	••	••	••	· · · · · · · · · · · · · · · · · · ·	•••	5,4
		617	91			··-		••• 		 106	7,6
			91	7,532			· ·				
Bundaberg	80	236	92	9,298		• •					9,5
_	723	1.579	·. 770	564	••	••	••	• •	•••	••	{ 15,1
	832/837 278	1,573		15,114	845	 845	1,066	•••		•••	1 ,
		1,809	862	24,976	845	845	1,066		·		26,0
Clermont	117 127	514 455		10,820 19,284	••	•••				•••	10,8
			İİ					··-	· · ·	•••	
		969	350	30,140	••		••			••	30,1
Dalby	93	1,006	1,006	18,998	47	47	1,975				20,9
	4	••	••	11,063	••	••	280	•••		• •	11,3
	83 78 &c.	••	•••	$4,876 \\ 1,130$	4,835	 3,598	55,620			••	4,8 56,7
	34	• • •		1,270			2,496			••	3,
	150	••	••		100	100	6,344	••		••	6,
	16 M 127	,. 	•••	6,576	3,794	. 3,794	29,019 710	••		••	35,
	126-135			•••			3,740			••	3,'
	154	••	••		1,306	1,306	28,108	••		••	28,1
	155 16 B	••	•••	2,004	$^{\cdot}$ 221	221	2,509			•••	2,0
	106	175	175	1,204	208	208	275			••	1,4
•	<u> </u>	1,181	1,181	47,121	10,591	9,314	131,076				178,
Fraser Island	3	614	206	18,363	50	<u>50</u>	4,424	 	· · ·		22,7
Jympie	393			3,020		••					3,0
	234	144 102		1,730.	••	••	••		••	••	
	502 627	$\frac{102}{180}$	•••	$1,568 \\ 2,423$	••	••	••			• •	1,8 2,4
	700			3,672	••		•••				3,6
	124 959	122	 122	770	••		••				7 1,0
	950/1	25	25	1,087 1,160	••	••	••			•••	1,1
		573	147	15,430							15,4
Inglewood	$\begin{array}{c} 79 \\ 122 \end{array}$	••			299	299	31,824		•••	••	31,8 18,3
	101			8,512	••	••	$18,300 \\ 540$			••	9,0
	134	••			• •		14,790	••		••	14,7
	81 48	••	••	7,490	$\frac{186}{174}$	186 174	$5,335 \\ 4,573$	••	•••	••	12,8
	132			207			4,070	••		••	2
	120	••		298	••		515	••		••	ε
				16,507	659	659	75,877	••	·		92,3

APPENDIX L.

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APPENDIX L.—continued.

Areas of Natural Forest Treated—continued.

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÷			Encalypts. (Acres.)	i		Softwoods. (Acres.)		C	ther Species (Acres.)	3.	Ali Speci (Acre
Working Plan Area.	Reserve No.	Treated 1954-55.	First Treatment 1954–55.	Total as at 30th June, 1955.	Treated 1954–55.	First Treatment 1954–55.	Total as at 30th June, 1955.	Treated 1954–55.	First Treatment 1954–55.	Total as at 30th June, 1955.	Total at 30 Jun 195
Kilcoy	370	66	66	3,276		-					3,2
Kucoy	893 637		· · · · · · · · · · · · · · · · · · ·	3,195 1,168					••	••	3,1 1,1
		66	66	7,639	•••					••	7,6
Kilkivan	221	492	492	2,414							2,4
	12/24 424/7	415	415	15,399 80			• •			••	15,
		907	907	17,893	•••		· · ·	 ,,			17,
Many Peaks	28	1,028	422	7,174							7,
	150			1,811							1,
		1,028	422	8,985		· · ·					8,
faryborough	958	800		15,926							15,
	57	1,274	•••	23,720		••	••		••		$\begin{vmatrix} 23, \\ 5, \end{vmatrix}$
	12	250		5,426 14,483	••	••	••				14
	27	1,505	74	7,124	•••	•••	••				7
	ĩ			1,632							$ -1\rangle$
	191/864	930		13,155	••	••			<u> </u>		13
		4,917	74	81,466	••	<u> </u>	· · ·	<u> </u>	<u> </u>	· · ·	81,
Mary Valley	135		<u> </u>	159			•••		·		·
North Coast	318 445 583	} 50	50	8,960	••						8,
	313	J		1,650							1,
	249	35	35	1,085							1,
	60	175	175	1,555		•••					1
	108			1,772	••	••	••			••	13
	173 531		·;	3,13 5 200	••	••					
	351			580]
	689			340			••		••	<u> </u>	
		260	260	19,277	••					<u> </u>	19
North Queensland	194			175							l
	243			1,457			••				1
	245			339							
		240	•••			••	••				1
	438 461	300	300	1,577 1,268							1
		540	300	5,016			•••				5
Warwick	444	85	85	4,445					·		4,
	574	879	576	5,306			· · ·			· · ·	5,
		964	661	9,751	· · ·	···	•••		 	••	9,
Grand Totals	1	15,664	5,527	324,805	12,145	10,868	212,443			106	537,

Areas of Northern Rain Forest and Natural Hoop Pine treated are now shown under Appendix M.

APPENDIX M.

Areas of Natural Rain Forest Treated.

Working Plan Area.				Northern B	Northern Rain Forests.					Natural Hoop	Natural Hoop Pine Foresta.			All species.
	Reserve No.		Treated 1954-55.	1954-55.					Treated 1954-55.	1954-55.				
		Brushed.	Ringbarked and thinned.	Logged under tree- marking conditions.	No. of trees interplanted.	First treatment 1954–55.	Total as at 30th June, 1955.	Brushed.	Ringbarked and thinned.	Logged under tree- marking. conditions.	No. of trees interplanted.	First treatment 1954–55.	Total as at 30th June, 1955.	Total as at 30th June, 1955.
:	169	Acres.	Acres.	Acres.	:	Acres.	Acres.	Acres. 375	Acres.	Acres,		Acres.	Acres. 9.902	Acres. 9.902
:	66	140	120	208	2,075	260	513	:			:	:		513
	185	12	:	12	:	12	291	:	:	:	:	:	:	291
	191	25	:	:	:	25	101	:	:	:	:	:	:	101
	310	216	•	:	2,650	216	394	:	:	:	:	:	:	394
	315	50	45	:	•	50	50	÷	:	:	:	:	:	50
	418	:	:	:	:	:	43	:	:	:	:	:	•	43
	452	:	:	:	:	:	20	:	·:	:	:		•	20
		443	165	220	4,725	563	1,412	.:		:			:	1,412
:		443	165	220	4,725	563	1,412	375	:	:	:	:	9,902	11,314

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APPENDIX N.

Summary of Forest Survey Work-Year Ended 30th June, 1955.

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R	eserve c	r Poi	tion.				E	arisł) .			Area in Acre
	CLASS	1.—1	[nspecti	ONS OF	Vac	ANT CROWN	LANDS	AND	TIMBER	Rest	ERVES,	
Portions 12, 13, 18 Portion 3	3 ∴.	•••	••	•••		Sirius Aldebaran	•••	•••	••		•••	22,739 9,631
Portion 3 ^A	••				••	Albinia						20,265
Portion 1 .						Pallas						27,227
Deepdale Holding	• •					Freitag						
Manifold Holding	••	•••	• •	••	• •	Manifold	••		••	••	• •	••
			(i				Total		••			79,862
				CLASS	2.—	-Assessment	SURVES	ts.				
Reserve 204	••		••			Trinity					•••	1,200
Reserve 13						Cardbeign						4,300
Reserve I14 .	••	••		••		Albinia	••	••	• •	••		
Reserve 5		• •	••	••	••	Mimosa (pro	oceeding)	• •			••
Mount Cooroo Lan Portion 2	as	••	••	••	••	Glady	••	••	••		••	1,600
Portion 2 Portion 17 (part)	••	••	••	••	• •	Consuelo Sirius	••	••	••	••	••	2,500
Portion 4v (part)	••	••	••	••	••	Sirius Cardbeign	••	••	••	••	•••	1,115
Portion 2	••	•••			••	Albinia	••	••	••	••	••	$\begin{array}{r} 443 \\ 9.280 \end{array}$
Morilla Holding (p)	art)			••		Aldebaran	••		••	••	••	10,744
Peawaddy Holding	(part)	•••	•••			Consuelo	••		•••	••	•••	1,278
							To	tal	, 	•	[-	
		Cr.	ao 9 T			ONTOUR AND				••		32,460
D		0 LA		IN KINDI	113 C		- Hastas	DELES IN .	L DORAE	¥.		
Reserve 310	••	••	••	••	••	Gadgarra	••	••	••		••	1,200
	••	••	••	••	• •	Western	••	• •	••	••	• •	1,000
teserve b7	••	••	••	• •	••	Bulburin	••	••	•• •	••	•••	26
							To	al	••	••		2,226

FOREST INVENTORY SURVEY.

			Re	serve.				Parish.				Area in Acres.
4 187 93 288 288 122 169 57 122 95 3 288 61 328 328 328 328 328 328 328 328	207			··· ··· ··· ··· ··· ··· ··· ··· ··· ··	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Braemar Daandine Nudley (proceeding) Jingi Jingi Canaga Coominglah (proceeding) Inglewood (proceeding) St. Agnes St. Mary (re-measure) Gungaloon (re-measure) Gundiah (re-measure) Fraser Island (re-measure) Gideon (re-measure) Yuleba (re-measure) Combabula (re-measure) Colinton (re-measure) Crow's Nest (re-measure) Gallangowan (re-measure) Yabba (re-measure) Kilkivan (re-measure) Kilkivan (re-measure) Kilkivan (re-measure) Manumbar (re-measure) Bulburin (establish)		··· ··· ··· ··· ··· ··· ··· ··· ··· ··	· · · · · · · · · · · · · · · · · · · ·	17,640 2,555 10,000 2,492 2,929 19,364
<i>a</i> u	••	••	••	••	••	••	• •	New Cannindah (establish a	ind i	re-measu	re) [
								Total			-	54,980

APPENDIX	N.—continued.

COMPARTMENT,	FIREBREAK	AND	SOT.	SURVEYS
COURSESSED TO THE TABLE T	TUTTUTUTUT	AND	BOTH	OURVEYS.

Res	erve.			Parish	l.		Type.			Area in Acres
915				Tahiti, Bidwell		 	Soil			15,160
915				Tahiti, Bidwell			Firebreak			7,684
1004			••	Toolara			Soil and Firebreak			1,240
257				Cooyar			Chaole			
124				Glastonbury	••		1711 .1 .1	••	•••	
135				Brooloo (part)		••	m	••	••	
117		• •	••	Amalan	••	• •		••	•••	4,670
107	••	••	••	$D_{1}^{1} = A_{1}^{1} = A_{2}^{1}$	••	••	Compartment	••	•••	14,500
90	••	••	• •		••	• •	Compartment .	••		
	••	••	••	Maryvale	••	••	Compartment	••	• •	1,608
108, 160, 442	••	••	••	Bribie	••	••	Compartment	••		2,085
611	••	••	••	Beerwah	••	• •	Soil and Compartm	\mathbf{ent}	•••	2,100
561 (Coochin)		••	• •	Bribie	••	••	Soil and Compartm	ent		1,840
700	••	۰.	• •	Canning	••		Soil]	2,800
589 , 638	••	••	• •	Beerwah	••		Check			· · ·
337	• •			Kilcoy		• •	Firebreak			638
779 and V.C.1		••		Gregory	••		Soil			11,000
Bayfield Hold	ing			Bayfield			Soil			4,000
Portion 1				Maryvale			Soil			1,862
Portion 20				Maryvale			Soil	••		956
Portion 26		•••		Maryvale		••	9-11	••	••	347
95				Dreales	••	••	Finchmoole	••	•••	52
) 5 7	••	••	••	Cassie	••	••		••	••	02
EO	• •	• •	••• (•••	••.	Firebreak, &c.	••		* **
100	••	••	•••	Cooyar	••	•••	Firebreak, &c.	••	••	••
	••	••		Cooyar	• •	••	Firebreak, &c.	••	••	
20	••	• •	• •	Neumgna	••	• •	Firebreak, &c.	••	• •	••
51	••	••	•• [Neumgna	••	••	Firebreak, &c.	••	••	••
83	••	••	••• [Colinton	••	•••	Firebreak, &c.	••		
79	••	••	••	Cooyar	••		Firebreak, &c.	••	• •	
99	••	••	••	Avoca	••	••	Firebreak, &c.	••	••	
							Total			72,648

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APPENDIX O.

State Forests, Timber Reserves, and National Parks at 30th June, 1955.

Bowen Brisbane Bundaberg Cairns Charleville Charters Tower Clermont Cloncurry Cooktown	rs	•••	No.	Are A. 65,556	R.		No.	Area	а.	No.	Are	a.	
Bowen Brisbane Bundaberg Cairns Charleville Charters Tower Clermont Cloncurry Cooktown	 rs	•••				_	1					Area.	
Brisbane Bundaberg Cairns Charleville Charters Tower Clermont Cloncurry Cooktown	 rs	••			B 0	. р. З	7	A. 46,469	в. р. 226	6	а. 3,565		. р 3 34
Brisbane Bundaberg Cairns Charleville Charters Tower Clermont Cloncurry Cooktown	 rs	••					7	00.000	•				
Cairns	rs		68	236,504	1 0	15	41	90,880	0 0	36	118,587	0	
Charleville Charters Tower Clermont Cloncurry Cooktown	rs		. 20	148,258		39	38	68,370 167,723	$egin{array}{ccc} 1&22\\ 2&28 \end{array}$	43 ••	79,211	0) {
Charleville Charters Tower Clermont Cloncurry Cooktown	rs		_	110.000					-	•••	••		
Charters Tower Clermont Cloncurry Cooktown	rs		. 7	118,859	0	36	15	486,561	$2 \ 0$	20	92,300	3	2.
Clermont Cloncurry Cooktown			•• ••				2	68,397	0 0			Ŭ	
Cloncurry Cooktown			• • • •				1	125,000	0 0				
Cooktown .			. 3	132,378	3	35	3	45,324	10				
	••	•• •					1	3,950	00		••		
D 11	•	•• •					8	623,460	0 0	7	10,691	0) (
Dalby	•••		. 27	1,020,697	2	19	4	16,359	0 0	1	13,145	0	-
Gayndah .			. 2	38,639	0	0	10						
01.1.1			. 6	37,242			16	63,511	$0 \ 32$		••		
0				149,981		<u>0</u>	26	86,706	1 14	4	127	- 0	0
n			· 5 · 49	444,436		0 34	6 14	41,894	2 20	•••		_	
Farb				1			14	51,000	0 21	5	922	2	7
derperton .	•	•••••	. 10	76,615	2	36	11	76,635	1 7	5	3,361	3	28
ngham .			. 1	43,620	0	0	3	59,340	0 0	4	10.404	~	_
Inglewood			. 15	185,942		35	4	8,407	1 8	9 4	18,495	0	0
Innisfail .			. 2	65,167		ŏ	11	364,623	-		100	_	-
pswich .	· .		33	171,618	$\tilde{2}$		24	67,765	$\begin{array}{cccc} 2 & 18 \\ 2 & 33 \cdot 2 \end{array}$	23 4	$106,807 \\ 5,589$		31 0
Jundah .	• •	• _ •					1	25,600	0 0			v	U
Mackay			. 1	10.055	•	~	10			1	••		
aryborough .	• •			19,855	0	0	19	148,193	3 0	53	149,085	2	29
Annta		• •		697,442		28	25	30,461	0 13	4	8,185		Ō
101110	• •	• •	. 10	196,227	3	20	11	75,042	2 32.6		••		Ť
Vanango .	• •	· ·	. 45	222,029	2	34	13	8,182	2 26	2	11,116	I	18
Rockhampton			. 8	183.053	1	0	17	140 800	1 00	, ~	0	~	
loma .			1 15 1	128,180	1 1		- 'í	140,538 8,600	$1 22 \\ 0 0 $	15	2,597	0	0
pringsure				-				•	- •		••		
4. 1 1			1 1		<i>.</i>	.	5	115,888	1 0	1	66,480	0	0
tanthorpe	•••	• •	3	11,370	2]	14	1	2,269	0 27	6	12,604	š	ŏ
aroom			3	22,186	0	0	5	48,864	2 0	1	11 /00	<u> </u>	-
oowoomba	· •		22	259,522	ŏ	2	16				11,400	0	0
ownsville	•			23,123	-	õ	2		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 3	$3,214 \\ 70,520$	3 0	0
Total		• • • •	425	4,698,508	1 2	26	358		3 35.8	248	788,007	-	20

At 30th June, 1955—								А,	к.	г.	
Total area reserved for)r										
State Forests Timber Reserves	••	••	••	••	• •	••		4,698,508	1	26	
Notional De-L	••	••	••	••	••	••		3,212,848	3	35.8	
National Parks	••	••	••	••	••	••	••	788,007	1	20	
Ľ	otal]	Reserva	tions	••	••	••	••-	8,699,364	3	1.8	

APPENDIX P.

Reservations for the Year Ended 30th June, 1955.

State Forests.—Five (5) new State Forests, with a total of 26,870 acres, were proclaimed during the year. These are as follows :—

Acres.							Land	Agent's District.
16.680	Reserve 546, Kandanga	••	••	••	••	••	••	Gympie
7,890	Reserve 845, Electra and Booyal	••	••	••	••	• •	••	Bundaberg
1.725	Reserve 137, Targinie		• •	••	••	••	••	Gladstone
451	Reserve 321, Marsh	••	••	••	••	••	••	Stanthorpe
124	Reserve 753, Durundur		••	••	••	••	• •	Brisbane
			•					

4,995 acres were added to existing reserves, and 142 acres were released. Two reserves were cancelled for inclusion in adjoining State Forests.

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Timber Reserves.---At 30th June, 1955, the number of Timber Reserves was 358 compared with 359 at 30th June, 1954.

Six (6) new areas, with a total of of 17,854 acres, were reserved, the largest being-

Acres.								Laı	nd Agent's District.
14,799	Reserve 78, Brovinia			• •	••	••	••	• •	Gayndah
2,269	Reserve 322, Stanthorpe		••	••	••	••	••	••	Stanthorpe
760	Reserve 149, Targinie	• •	••	••	••	••	••	••	Gladstone
	25 acres were added to exis	ting re	serves.						

Five (5) reserves, totalling 27,349 acres, were converted to State Forests, and two reserves, area 1,021 acres, were cancelled.

National Parks.—Six (6) new areas, totalling 7,768 acres, were proclaimed, these being-

Acres. Lead Agent's Dis	strict.
6.260 Reserve 456. Magnetic (Magnetic Island)	
720 Reserve 233, Beerwah (Tibrogargan)	
320 Reserve 750, Beerwah (Mount Beerwah) Brisbane	
280 Reserve 749, Beerwah (Mount Coonowrin) Brisbane	
120 Reserve 127, Beerwah (Mount Ngungun) Brisbane	
68 Reserve 793, Tamborine (Henderson's Knob) Brisbane	

1,787 acres were added to existing reserves. Recomputation of areas accounted for a reduction of 97 acres.

IST JULY, 1954, TO 30TH JUNE, 1955.

STATE FORESTS.

					No.	А.	R.	Р.
At 1st July, 1954	••			• •	422	4,666,786	0	38
At 1st July, 1954			••	••	5	26,869	-	14
V.C.L. added to existing reserves	••		••		••	4,995	0	14
		٠			427	4,698,650	3	26
Reserves cancelled and areas released	ι	••	• •		2	142	2	0
Total at 30th June, 1955					425	4,698,508	1	26

TIMBER RESERVES.

At 1st July, 1954	 	•• •• •	. 359 . 6 	3,223,339 17,854 25	$\begin{array}{ccc} 3 & 23 \cdot 8 \\ 0 & 3 \\ 0 & 0 \end{array}$
			365	3,241,218	3 26.8
5 reserves converted to State Forests 2 reserves cancelled		A. B. 1 27,348 3 3 1,020 3 3	2		
7			7	28,369	3 31
Total at 30th June, 1955	• •		358	3,212,848	3 35-8

NATIONAL PARKS.

At 1st July, 1954 Proclaimed 1-7-54 to 30-6-55 V.C.L. added to existing reserve		••.	 	••	 242 6 			3、 1 0	27
-					 248 		788,104 97	1 0	
- Total at 30th June,	1955	••		• •	 248		788,007	1	20
Total reservations a	t 30th	June,	1955		 	••	8,699,364	3	1.8

47

APPENDIX Q.

Expenditure, Surveys, Year Ended 30th June, 1955.

£.

'n,

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Particulars of Survey—									
Harvesting and Marketing Project-							£	8.	
Aerial Photography									
Survey Prints Mans Ro	••	••	••	••	••	•	. 12	2 8	3
Forest Inventory Survey, Brichana Valley	••	••	••	••	••	•	• 674	1 16	3
Forest Inventory Survey, Reserve 169, Bundaberg	••	••	••	٠.	••	•	. 1,528	3-16	3
Class 2 Survey Springeuro	••	••	••	••	••	•	. 2,114	1 7	7
Firebreak Survey Reserve 117 Clarmont	••	••	• •	۰.	• •	• •	1,889)]	Į
Forest Inventory Survey Become 4 Dall	••	••	••	••	••		. 94	ł 4	£
Forest Inventory Survey Persons 79 Date	••	••	••	••			. 1,995	54	ŧ
Forest Inventory Survey Deserve of D-11	••	••	••	•••	• •	• •	3,574	- 11	Į
	••	••	••	••		• •	3,234	. 17	7
Forest Inventory Survey, Dalby	••	••	• •	• •	••		· · · · · · · · · · · · · · · · · · ·		
Forest Inventory Survey, Yield Plots, Reserve 3, Frase	er Is.	••	••	• •					
Miscellaneous Surveys, Reserves 3 and 12, Fraser Is.	••	• •		.,	• •				
Forest Inventory Survey, Gympie	••	• •	••	.,					
Forest Inventory Survey, Reserves 137/207, Kilcoy	••				• •				
Miscellaneous Surveys, Kilkivan		• •	••						
Forest Inventory Survey, Reserve 138, Kilkivan		••	• •				-		
Forest Inventory Survey, Reserve 220, Kilkivan	••	••	••			••		13	
Forest Inventory Survey, Reserve 298, Kilkivan					• •	•.•			
Forest Inventory Surveys, Reserve 355, Kilkivan		••			••	••	265		
Soil and Type Surveys, Hecate Holding, Mackay	••		••	••	••	••	60		
Soil and Type Surveys, Demeter, Mackay	••			••	••	••		16	
Forest Inventory Survey, Mackay			• •	••	••	••	24		
Road Survey, Reserve 72, Conway	•••	••	••	••	• •	••	1	5	
Forest Inventory Survey, Reserve 28, Many Peaks		••	••	••	••	••	39	1	
Forest Inventory Survey, Reserve 67, Many Peaks	••	••	••	••	••	••	2,385	7	
Forest Inventory Survey, Reserve 95, Many Peaks	••	••	••	••	••	·	18	12	
Forest Inventory Survey, Maryborough	••	••	••	••	••	• •	456	17	
Forest Inventory Survey, Reserve 958, Maryborough	••	••	••	••	• •	••	219	12	
	••	••	••	••	••	••	431	7	
Miscellaneous Surveys, Reserves 589/638, North Coast	••	••	••	••	• •		57	7	
Forest Inventory Survey, Reserve 318, North Coast	••	••	••	• •	••	••	0	19	
Forest Inventory Survey, Reserve 445, North Coast	••	••	••	••			Cr 106	8	
Close 2 Survey, Berery 55 N. d. O.	••	••	••	••		••	Cr. 262	-	
Class 2 Surveys, Reserve 55, North Queensland	• •	••			••	••	162		
Class 3 Surveys, Reserve 99, North Queensland	••	••		••	••	••	1,485	1	
Miscellaneous Surveys, Reserve 185, North Queensland	••				••		1,405		
Miscellaneous Surveys, Reserve 194, North Queensland	••			••	••		122		
Class 2 Survey, Reserve 204, Trinity, North Queensland	í 			••					
Class 3 Surveys, Reserve 310, North Queensland	••					• •	181	6	
Miscellaneous Surveys, Reserve 310, North Queensland	• •	••	••	••	••	••	1,778	4	
Road Surveys, Danbulla					••	••		4	
Road Survey, Reserve 756, North Queensland				••	••	••	71		
Class 2 Survey, V.C.L., Glady, Mt. Cooroo		••			••	••	6 00 1		
Class 3 Survey, V.C.L., Ramleh	••			• •	••	••	298	9	
Miscellaneous Surveys, V.C.L., Ramleh	••		••	••	••	••	666	8	1
Class 2 Surveys, Mimosa, Rockhampton	· · ·		••	••	••	••	557]	18	
		••	• • •	••	••	••	391	0	
				•		-			-
							£26,091	2	i
forestation Branch Projects-									
As Detailed in Appendix H	••						10.000		
					••	••	17,325	2	4
Total Expenditure						_			
- ····· ••	••	••	••	••	••	•••	$\pounds 43,416$	5	0
Total Expenditure	•••	••	••	••	••	 	£43,416	5	;

APPENDIX R.

Distribution of Personnel, 30th June, 1955.

Salaried Officer Other Employe	s es	••	••	 	••	••	••	 		 312 1,900
										2,212
· T	3y Auti	nority: 1	а. <u>н.</u> т	UCKER,	Govern	ment P	rinter.	Brisbar	ie.	· - · · · · · ·