REPORT

ON THE OPERATIONS OF

THE FORESTS DEPARTMENT

FOR THE

YEAR ENDED 30th JUNE, 1953

BY

T. N. STOATE D.Sc. (ADEL.) DIP. FOR. (OXON.)

CONSERVATOR OF FORESTS

PERTH:

By Authority: WILLIAM H. WYATT, Government Printer.

1953

Forests Department,
Perth, 30th September, 1953.

To the Honourable Minister for Forests:

Sir,

I have the honour to transmit herewith my report on the operations of the Department for the year ended 30th June, 1953.

Yours faithfully,

T. N. STOATE,

Conservator of Forests.

10, 2, 7

Annual Report on the Operations of the Forests Department for the Year ended 30th June, 1953

INTRODUCTION AND SUMMARY.

Sawn timber production for the year under review 1952–53 at 16,975,093 cubic feet exceeded that of any previous year. Of this total 13 million cubic feet were held in the State, 3 million were exported interstate, and nearly 1 million was exported overseas. The total exports represented 23.4 per cent.

The total value of sawn timber this year was estimated at over £8,000,000, and the gross revenue reached a peak of £678,150. Forest products other than sawn timber were estimated at a value of over £2,000,000.

| The following table illustrates the recent trends in production and con- | le illustrates the recent | trends in | production | and | consumption | • |
|--|---------------------------|-----------|------------|-----|-------------|---|
|--|---------------------------|-----------|------------|-----|-------------|---|

| | Yea | r. | | Total Sawn Production. | No. of Sawmills. | Men Employed. | | |
|---|-----|----|----------|--|---|--|---------------------------------|---|
| 1937-38 1945-46 1950-51 1951-52 1952-53 | | | ,.:, | cub. ft. 11,720,652 8,700,000 12,571,000 14,717,000 16,975,093 | cub. ft. 7,545,744 3,300,000 2,343,000 2,368,000 3,965,188 | eub. ft. 6,700,000 5,200,000 10,200,000 12,350,000 13,009,905 | 134 128 256 278 306 | 3,105 2,870 4,047 4,700 5,671 |

This year's production represents a far greater output than the forests of the State can maintain, and moreover, the rate of cut is still increasing. Nearly 30 per cent. of the sawn timber was derived from Private Property, a source which will disappear over the years; for there is no private forestry in Western Australia. Another 20 per cent. was obtained from low quality forest on Crown Lands not permanently dedicated to forestry much of which may be alienated in the future, so that this source of timber will also disappear.

The remainder of the cut was taken from the main timber belt, and it is highly desirable that the distribution of this cut should be improved by replacing to the greatest extent possible the log supply from the heavily cut-over forests by cutting in the virgin forests of the far South.

In the meantime, contrary to general practice, in order to keep in operation City Mills and those around some country towns, logs are being sold by the Department from its own direct conversion operations, and a system of sale of small permits has been arranged.

It can be clearly seen that the outlook for timber for the increased population predicted for this State, even if it is only double the present population, is a far from pleasing one. Admittedly 23·4 per cent. of the timber was exported, but with an increased population this will be absorbed locally. Account has not been taken of the needs of the State for cellulose products, paper and the host of articles made today from wood, and the additional demands on our forests made for mining timber, piles and poles, bridge and fencing timbers, and other items which are not sawn.

There is a prescription to remedy the position, and that is increased forestry development and the dedication of further areas of State Forest. Funds are required for three major steps:—

- (1) A larger pine planting programme.
- (2) Quicker extension of Fire Control measures to protect native forests where timber is being destroyed by fire.
- (3) Housing for forest workers.

It is unfortunate for the future, in a State so deficient in forest, that although funds could be found over the post-war years for agricultural development on a large scale, relatively little finance is available for the growth and care of forests. This is an equally important form of settlement of our country, and one capable of providing the necessities of life, shelter, clothing and even food. Forestry is a rural industry, and apart from the large sawmilling towns of the Timber Trade, has developed, and is capable of further developing, small permanent townships in the forests.

There has been a tardiness in the past in this State to increase the area of dedicated State Forest to protect our natural forest resources from the inroads of the many demands for forest lands for other purposes. The dedication of State Forest may be regarded as having two main purposes in timber production; firstly, the protection of forests needed in the close future to support for as long as possible the existing Timber Industry, and secondly, the protection of forests needed for the growth of timber in perpetuity. The dedication of forest is not irrevocable and small sections of State Forest are revoked every year with the approval of Parliament.

Fire is the chief enemy of the forests, and it is pleasing to record that last summer was comparatively mild. Although there were more "Dangerous" days than usual, there were no extended spells of hot weather which in some years have been as long as six weeks of "High" summer. The weather this summer did rise sharply to Dangerous Hazard, but then fell again steeply; and in that respect was abnormal. A very successful season is to be recorded, no serious fire losses having occurred. The extension of Fire Control and Forest Management into the forests of the far South has continued slowly. Three new fire lookout stations, Mt. Burnside, Beard and Boorara, were manned during the season making a total of 34 lookouts now in use. A new station at George Tower was constructed.

Although the pine afforestation programme was curtailed during the year through a shortage of Loan Funds, a record area of 2,543 acres was planted in the winter of 1952 during the early portion of the financial year. Some 5,000 acres remain part-cleared for future planting. The total area of plantations is now 17,690 acres, exclusive of the 1953 planting season.

In Forest Research further attention has been given to the soils and litter of the Jarrah forest; to pine nutrition as a continuing study of the growth of pine in the poor soils available for planting; to some aspects of the use of selective weedicides in nursery operations, and the use of toxic chemicals and hormone-like synthetics in the eradication of coppice growth on firebreaks. Problems involved in the germination of seed and initial steps in tree-breeding are being studied.

The outbreak of bark beetle (Ips grandicollis) attack, first reported from a Perth plantation (Collier) in August, 1952, has now become apparent at all Metropolitan plantations of Pinus pinaster. Possible measures of silvicultural control and the use of chemical sprayings on infested slash and logs are being studied.

The shortage of Senior professional foresters which began during World War II. has not been overcome although additional graduates have joined the Department as Juniors in recent years. The low salary classification of Senior professional foresters represents a risk of further loss to the State.

Increased attention has been given to the trial of trees for inland areas where a number of new arbereta have been established. Studies are being made of trees suitable for the Kimberley areas. The State Nursery at Hamel which produces trees for distribution to farmers and rural areas, disposed of over 40,000 trees to local authorities and private persons. The Kalgoorlie Nursery which raises trees for use in the low rainfall inland areas distributed nearly 10,000 plants.

With the planting in the lower South-West of many Northern hemisphere species noted for their Autumn tints the tourist attractions of some of the towns in the forest country should ultimately be considerably enhanced.

A Eucalyptus Study Tour of Australia, financed partly from the funds of Food and Agriculture Organisation of the United Nations, and partly by member nations, included in its itinerary one week in the forests of Western Australia. Twenty-six delegates from eighteen (18) nations together with F.A.O. officials visited this State and examined Jarrah, Karri, Wandoo and Tuart forests in the South-West, and Mallet in the Narrogin district. The inland forests of Eucalyptus around Norseman and Kalgoorlie were also visited and were of special interest to those engaged in growing timber in arid regions of the world. The interest displayed by delegates and discussions with them emphasised the high value attached to the Australian Eucalypts by other nations throughout the world.

REVENUE.

The gross revenue of the Department for the year ended 30th June, 1953, amounted to a record figure of £678,150. The previous highest revenue received in any one year was in 1951-1952 when it amounted to £481,497.

The following tabulation shows a comparison of the two years :-

| | | | | | ear ended h June, 1952. | Year ended 30th June, 1953. |
|-------------------|----|----------|------|---|----------------------------|--------------------------------|
| | | | | | £ | £ |
| Royalties and Ren | ts | **** | | | 292,767 | 399,011 |
| Sandalwood | | | | | 54,195 | 54,276 |
| Departmental | | | | | 134,535 | 224,863 |
| | | | | _ | £481,497 | £678,150 |

The major items collected under the heading of "Departmental" were :-

| | | | | 20 |
|-----------------------|------|------|------|-------------|
| Sale of Pine Logs | | | | 32,665 |
| Sale of Milled Timber | | | | 56,256 |
| Sale of Firewood | | | | 108,996 |

THE FOREST AREA.

State Forest (Forests Act, 1918).

The area of State Forest as at 30th June, 1953, was 3,460,092 acres, an increase of 18,141 acres as compared with the acreage for the previous year. During the year additions totalling 18,260 acres were made to State Forest. This was mainly due to the inclusion in State Forest 16 of an area for pine planting. One hundred and nineteen acres comprising five small areas were excised during the year and reverted to the Lands Department for alienation.

In the timber forests proper of the South-West, 3,460,092 acres have been dedicated as State Forest, and 87,000 acres have been declared Timber Reserve under the Forests Act, and 201,000 acres as Timber Reserve under the Land Act.

The Forests Department has recommended the dedication of an additional 336,000 acres in the extreme South-West below Nannup to Walpole. This recommendation was supported by the findings of the recent Royal Commission.

The machinery to review any dedicated State Forest has operated continuously since the passing of the Forests Act in 1918, and some pieces of State Forest found unsuitable for forest purposes or required to meet special circumstances are revoked each year following the consent of Parliament.

It is strange that forest carrying valuable timber cannot be freely dedicated in a great State so deficient in forests.

Timber Reserves (Forests Act, 1918).

The total area of timber reserves under the Forests Act as at 30th June, 1953, was 1,796,920 acres, a decrease of 2,738 acres as compared with the acreage for the previous year. This was the result of Reserve No. 118/25 (Mining timber and firewood, etc.) being cancelled and re-gazetted as a National Park. Of this total only about 60,000 acres are in the South-West and capable of producing timber. The balance is chiefly firewood forest of the inland areas.

APPLICATIONS FOR LAND.

During the period 1st July, 1952, to 30th June, 1953, the Department received either through the Lands Department or direct, 217 applications covering a total area of 144,258 acres.

Of these applications 136, covering a total area of 93,880 acres, were referred to the Forest Officer in charge of the District concerned for either a detailed inspection or for additional information, before making a recommendation. Of this area applied for the Forests Department agreed to the release of 136 blocks totalling approximately 61,000 acres.

SAWMILLING AND HEWING.

While the sawn timber production reached a record, the milling capacity of the State is at a still higher level. There has been a great increase in the number of mills on Private Property, and because of the present demand for timber, mills, which normally would have closed down, have been continued in operation. Though this capacity has not been fully used it now totals about 1,500,000 loads in the round, or nearly 75 million cubic feet made up of 1,200,000 on Crown timber and 300,000 on Private Property. This is almost double the output the forest of the State could support on a permanent basis.

Actually in the year under review the total cut was nearly 1,000,000 loads, or 50 million cubic feet, of logs, 685,000 loads from Crown Lands and 260,000 loads from Private Property, but the rate of cut is still steadily increasing. It is always difficult to resist the demands of sawmills for logs to replace those obtained from permits now cut out or from Private Property now exhausted, but the State must face the position

Assuming that the forest desired for agriculture is all cut out in 20 years and the Private Property similarly, the State will be forced thus to rely upon the timber from the permanent forests, and this will not provide more than 700,000 loads of logs per annum, probably less. The amount of timber used within the State this year was of the order of 723,000 loads of logs, or more than 50 cubic feet of logs per head of the population, exclusive of pulp and paper products for which nearly 10 cubic feet would be required.

The position for the future with a greatly increased population is therefore a serious one. The people of the State will not have enough hardwoods for their own needs. Again, the State possesses in its Jarrah and Karri forests, timber of high intrinsic value and trees of big sizes capable of cutting hardwood timbers of large dimensions are keenly sought after by world users. These timbers provide a high quality, high value export commodity, and it would be wise to conserve for an export trade in the future instead of diverting it all to the many common uses for which inferior timbers are suitable.

The need then for a greatly increased pine planting programme is evident. Seven-eighths of the timber used in the world is softwood, and Western Australia can overcome its prejudice against the use of softwood for many common purposes. It will be forced to do so eventually.

Details of the production of mill logs and sawn timber are given in the accompanying tables.

Thirty-nine new mills were registered during the year bringing the total to 306 as at December, 1952, of which 159 were on Crown Land and 147 on Private Property. The number of mills in itself is not a measure of timber being cut, as it is the large mills with capacity intakes of more than 1 million cubic feet per annum each and up to double that capacity which cut the bulk of the timber.

Departmental plantations yielded nearly 14,000 loads of pine thinnings, of which 245 loads were used for plywood manufacture. Other species, chiefly Jarrah and Karri, provided 109,713 cubic feet (2,194 loads) for plywood, practically all of which was from State Forest with the exception of a small quota, 2,616 cubic feet, of Blackbutt from Private Property.

TIMBER PRODUCTION.

Production of Timber for Year ended 30th June, 1953 (exclusive of Mining Timber, Firewood, Piles and Poles and Logs used for Tannin).

| | | THE RESERVE OF THE PROPERTY OF | Mill Logs. | | | Hewn | Timber. | Grand Totals. | | |
|--|------------------------|--|-----------------------|------------------------|--------------------------------|----------------------|-------------------------|------------------------|------------------------|--|
| | | | | Total. | | | | | , | |
| | Jarrah. | Karri. | Other. | in Log. | Recovery of sawn Timber. | Jarrah in log. | Jarrah in square. | In log. | In square. | |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | |
| Crown Lamds | cub. ft. 23,719,054 | cub. ft. 8,189,687 | eub. ft. 2,307,488 | cub. ft. 34,216,229 | cub. ft. 12,291,853 | cub. ft. 7,150 | cub. ft. 1,430 | cub. ft. 34,223,379 | cub. ft. 12,293,283 | |
| Private Property | 10,921,770 | 800,355 | 1,297,624 | 13,019,749 | 4,681,479 | 1,655 | 331 | 13,021,404 | 4,681,810 | |
| Gand Totals | 34,640,824 | 8,990,042 | *3,605,112 | 47,235,978 | 16,973,332 | 8,805 | 1,761 | 47,244,783 | 16,975,093 | |

Figures in columns (1), (2), (3), (4), (6) and (8) are in the round based on full volume measure. Figures in columns (5), (7) and (9) are the volumes of sawn or hewn timber in the square.

* Comprises :--

1,811,467 cub. ft. Wandoo. 180,160 cub. ft. Marri. 704,759 cub. ft. Pine. 64,119 cub. ft. Tuart.

614,199 cub. ft. Blackbutt. 25,109 cub. ft. Red Tingle Tingle. 197,623 cub. ft. Sheoak.
2,591 cub. ft. Yellow Tingle
Tingle.
139 cub. ft. Banksia.

2,642 cub. ft. Bullich.

1,749 cub. ft. Morrell.

555 cub. ft. Cadjuput.

In addition to the above total, 68,635 tons of Wandoo logs were used for Tannin extract.

THE QUANTITY OF SAWN AND HEWN TIMBER PRODUCED FROM CROWN LANDS AND PRIVATE PROPERTY FOR THE PAST TWO YEARS IS SET OUT IN THE FOLLOWING TABLE.

| | From | Crown Land | s. | From | Private Prop | erty. | | Estimated | |
|---------|---|------------------------------------|-----------------------|--|--------------------------------|-------------------|--------------------------------------|---------------------------------|--|
| Year. | Sawn Timber other than Sleepers. | Sawn Sleepers. | Hewn Sleepers. | Sawn Timber other than Sleepers. | Sawn Sleepers. | Hewn Sleepers. | Total Quantity. | Value of Timber Obtained. | |
| 1050 50 | cub. ft. 9,363,216 10,540,913 | cub. ft. 1,056,110 1,750,940 | cub. ft. 1,430 | cub. ft. 3,859,271 3,977,327 | cub. ft. 438,515 704,152 | cub. ft. | cub. ft. 14,717,112 16,975,093 | £ 6,105,922 8,162,586 | |

Log Production from the Forests of Western Australia.

From the foundation of the Colony of Western Australia in the year 1829 to 1873, the population rose from 1,003 to 25,761, and the estimated timber production gradually increased from a mere 602 loads to 16,820 loads per annum. It has now been estimated that during this period the total log production was approximately 315,000 loads.

Between 1874 and 1893 population rose steadily to 65,037, and in this period production is estimated to have increased to approximately 50,000 loads per annum. It is thus estimated that 773,000 loads were produced during these two decades.

The era of 1894 to 1915 saw a marked increase in population to 316,663 with a corresponding large increase in timber production, estimated to have reached to 452,700 loads per annum of log production. It is estimated, therefore, that these two decades produced 7,058,000 loads of timber.

Since 1915 log production figures have been given annually.

As an interesting estimate, therefore, it may be said that the total log production for Western Australia from the foundation of the Colony to June of 1953, amounted to over 36 million loads—as shown in Appendix 2E.

Timber Inspection.

The service of Timber Inspection provided for buyers by the Department has increased considerably during recent years.

Sawn sleepers inspected during the year under review amounted to 2,199,092 cubic feet, of which 634,372 cubic feet were from Private Property. Hewn sleepers inspected totalled 1,761 cubic feet only, of which 331 cubic feet were from Private Property.

Other sawn timber inspected totalled 189,287 cubic feet of which 6,486 cubic feet were from Private Property. The number of piles and poles inspected totalled 503 amounting to 14,522 lineal feet.

Sawn Timber Consumption and Distribution.

Of the total of 339,502 loads produced during the year 260,180 loads or 76.6 per cent. were held in Western Australia, 79,323 loads or 23.4 per cent. were sold outside the State, and of these exports 60,086 loads or 17.7 per cent. of the total cut were sent to the Eastern States and 19,237 loads or 5.7 per cent. were shipped overseas.

The production of Karri was 64,728 loads or 19·1 per cent. of the total. Of this, 34,000 loads approximately were consumed in Western Australia and 31,000 loads exported outside the State.

Sleepers sawn during the year totalled 49,102 loads and 30,239 loads of these were used in Western Australia.

The quantity of timber used in the construction of nearly 8,000 new houses was estimated on a basis of 10 loads per house at 80,000 loads. Although flooring and joinery in these houses used an estimated 24,000 loads of seasoned timber, there is a demand for this product for other purposes including repairs, and it is estimated that the present annual production of seasoned timber is about 40,000 loads.

Firewood Production and Consumption.

Firewood production for the State exceeded one million tons, over half of which was used for industrial and mining fuel. The Forests Department continued to supply wood directly to No. 1 and No. 2 G.W.S. Pumping Stations, together with emergency supplies to No. 3 Station.

The proposed electrification of the Mundaring Weir Pumping Stations in the near future may entail the loss of employment for some 70 to 80 men and a consequent loss of a fire fighting force unless a new market is found for firewood from this centre.

| Firewood. | Crown Land | Private Property | Total |
|---|---------------|---------------------|---------|
| 1. Production for the State— | Tons. | Tons. | Tons. |
| (a) Domestic Firewood: | | | |
| Firewood Permits (South-West) Mill Waste sold as Firewood (estimated 50 per cent. | 49,571 | 1,217 | 50,788 |
| of total) | 36,887 | 20,818 | 57,705 |
| Domestic use on Goldfields | 16,597 | , | 16,597 |
| Total Domestic Wood as shown by returns received | 103,055 | 22,035 | 125,090 |
| (b) Industrial Firewood: | <u>-</u> | | |
| Direct supply by Forests Department Nos. 1 and 2 | i r | | |
| pumps | 22,100 | | 22,100 |
| Nos. 3 and 4 pumps | 0.000 | | 3,323 |
| Supplied by Petty contractors Nos. 1 and 2 pumps | | 1441 | 4,354 |
| Supplied under License Nos. 3 to 8 pumps | | | 35,219 |
| Other Pumps | 1 10~ | **** | 1,185 |
| Factories, etc. | 40 ~~ | | 49,571 |
| Mill Waste sold as Firewood (estimated 50 per cent. | | | 20,012 |
| of total) | 36,887 | 20,819 | 57,706 |
| Mill Waste used as Firewood | 707 007 | 12,876 | 133,907 |
| Total, Industrial Firewood as shown by returns | • | | |
| received | 273,670 | 33,695 | 307,365 |
| (c) Mining Firewood | 168,152 | | 168,152 |
| Total, Firewood produced as shown by returns | • | | |
| received | 544,877 | 55,730 | 600,607 |

It will be noted that this total does not equal the estimated consumption due to many returns not being received for Private Property.

2. Consumption-

| Estimated Domestic | | , | 314,260 (at 2 tons per dwelling.) |
|--------------------|---------------|-------|---|
| Industrial | | | 473,810 (ex Government Statistician.) |
| Pumping Stations | • • • • • | | 66,187 (as per F.D. Returns.) |
| Mining | | | 168,152 (as per F.D. Returns.) |
| | | | |

1,022,409 tons.

Approximately 53 per cent. of the firewood consumed was supplied from Crown Land.

A good reserve of firewood has been maintained at Nos. 1 and 2 Pumping Stations during the year.

Sandalwood.

Indications last year that more men were taking an interest in the Sandalwood industry were realised, and as a result no difficulty was experienced in obtaining sufficient Sandalwood to meet all export orders and build up a reserve stock at Fremantle.

The quantity of Sandalwood delivered during the year (including deliveries from orders placed during the previous year), was :—

| nus year), was | | | | Oil | Export. |
|-------------------|------|------|------|---------------------|-----------|
| Crown Lands | | | | Distillation. Tons. | Tons. |
| Logwood | 4444 | | | **** | 581 |
| Roots and Butts | | | | *157 | |
| Pieces | | | | | 3 |
| Private Property— | | | | | (logwood) |
| Nil | | | | | |
| | | | | | |
| ē | | | | 157 | 584 |
| | | | | | |

^{*} Severed from logs delivered for export.

The quantity of Sandalwood exported during the year was 400 tons as compared with 373½ tons for the previous year.

Nine thousand three hundred and thirty-seven pounds of Sandalwood oil were produced by local distillers during the year, and 4,405 lb. were exported out of the State.

FOREST PRODUCE.

Piles and poles totalling 197,565 lineal feet were obtained from Crown Lands, of which 33,377 lineal feet were supplied by departmental cutting. Records available show that nearly 400,000 lineal feet were obtained from Private Property, but in addition to this an unknown quantity from Private Property goes into local use, for which the Department has no records.

Over a quarter of a million fence posts and rails were recorded, but this record must fall far short of the actual consumption, as returns are not received from private owners.

Tanning materials form one of the most important items of forest produce apart from sawn timber. From Crown Lands 200 tons of Mallet bark were sold, of which 49 tons came from Plantation thinnings. One thousand and thirty-two tons came from Private Property. Wandoo logs used for the preparation of tannin extract totalled 68,635 tons, all from Private Property.

Mining timber, apart from that supplied by sawmills, reached approximately 31,000 tons, nearly all from Crown Lands, and about half of which came from the inland forest areas.

Although very little charcoal was produced for general consumption, the Wundowie Charcoal Iron Industry produced over 9,000 tons for use in the process of steel production.

Numerous other items of interest produced from forest areas are shown in the following table.

It has been estimated that this forest produce has a total value of over £2,000,000.

FOREST PRODUCE NOT ELSEWHERE INCLUDED IN PRODUCTION TABLES. OBTAINED DURING YEAR ENDED 30th JUNE, 1953.

| | | st Division dtural Area | | Northam Central and | | |
|--|------------------|----------------------------|------------------|---------------------------|---------------------------------|--|
| Description of Forest Produce. | Supplied by | Other Crown | Private | Eastern Goldfields. | Total. | |
| | Depart- ment. | Lands. | Property.* | Crown Lands. | | |
| Mining Timber Tons | 300 | 12,864 | 528 | 17,006 | 30,698 tons. | |
| Sleepers for Goldfields Wood Line Cu. ft | **** | | 0.100 | 19,036 | 19,036 cu. ft. | |
| tharcoal (Includes 9,129 tons ex Wundowie) Tons | 99 977 | 117 $164,188$ | 9,129 395,498 | 16 | 9,262 tons. 593,063 lin. ft, | |
| iles and Poles Lin. ft. | 33,377 11,437 | 165,067 | 15,214 | 73.850 | 265,568 No. | |
| encing Posts and Rails No No Iallet Bark (Includes 49 tons thinnings) tons | 49 | 151 | 1,032 | 10,000 | 1,232 tons. | |
| Vattle Bark tons tons | 4 | | | | 4 tons. | |
| lackboy tons | | 5 6 | | | 56 tons. | |
| Vandoo Timber for Tannin Extract tons | | | 68,635 | | 68,635 tons. | |
| oronia megastigma for distillation purposes lb | | 3,223 | 303 | | 3,526 lb. | |
| Sean, etc., Sticks No No | | 5,500 | | 3,375 | 8,875 No. | |
| tone Cab. yds. | | 846 | | | 846 cub. yo | |
| Sand Cub. yds. | | 261 | | | 261 cub. yo | |

^{*} Complete figures for Private Property are not available. Only information furnished to the Department has been included.

FOREST OFFENCES.

Eighty-two offences were reported to Head Office during the year. In six cases proceedings were taken against offenders. Fines totalling £40 and costs of £13 2s. were inflicted.

Nineteen warnings were issued, and the remainder were dealt with by charging royalty, cancellation of Licenses, forfeiture of deposits, collection of damages, or the confiscation and sale of timber illegally cut.

The amount received by the Department in this way totalled £802 16s. 6d.

EXPENDITURE.

The total expenditure charged against Consolidated Re Compare

| | | | | | | | | | ar er June £ | ided , 1952. | | Year th Ju | |
|--------------|---|-------------------|------------|----------|----------|-----------------------------|------------------------------|--------------------------------|--------------------|-----------------|------|---------------|--------|
| G | General Administration of | f the 1 | Fores | ts Act | and F | egulat: | ions | | | 068 | | | 79,92 |
| A | Administration of the Tim | aber I | ndust | ry Reg | gulation | ns Act | | | 3, | 201 | | | 3,00 |
| | Pine Conservation | | | | | | | | 29, | 431 | | | 45,44 |
| ቷ | Firewood and other Dire | et Cor | nversi | ion Pr | ojects | | | | 93, | 179 | |] | 145,4 |
| | | | | | | | | £ | 194, | 879 | | ££ | 273,82 |
| ie te | otal expenditure of the D |)epartı | ment | charge | ed agai | nst all | Fund | ls w | | s follows : | | | |
| C | Consolidated Revenue Fu | nd | | | | | **** | | £ 273, | 090 | | | |
| \mathbf{R} | Reforestation Fund, include | ding E | 'edero | J Aid | Road | Grant | **** | | | | | | |
| G | leneral Loan Fund | | | | | | | | 388, | | | | |
| | | , ,, | | **-* | | **** | | | 104, | | | | |
| | | | | | | | _ | £ | 766, | 776 | | | |
| | FORESTS IMPR | OVE | IENT | AN: | D RE | FORES | STAT | 'IOI | n f | UND. | | | |
| 13 | Palanca lat Tala 1070 | | | | | | | | | £ | | d. | |
| | Balance—1st July, 1952 | | | | | •••• | | | | 1,883 | 2 | 7 | |
| | hree-fifths Net Revenue reasury Grant | | | | | | **** | | | 250,165 | | 9 | |
| | | | | | | | | | | 83,247 | | 0 | |
| | ederal Aid Road Grant | | | | | | | | • • • • | 46,504 | | 10 | |
| IJ | Oirect Credits | | | | | **** | | | **** | 6,985 | 9 | 11 | |
| L | ess Expenditure— | | | | | | | | | 388,786 | 2 | 1 | |
| | • | | | | | | £ | s. | d. | | | | |
| | eneral Account | | | | | 342 | ,065 | | 11 | | | | |
| \mathbf{F} | ederal Aid Road Grant | | | | | | ,504 | | 10 | | | | |
| | | | | | | | | | | 388,569 | 11 | 9 | |
| | Balance as at 30th Ju | me, 19 | 953 | | | | •••• | | | £216 | 10 | 4 | |
| | APPORTIONMEN | T OF | NE | T RE | VENU | E OF | DE | PA: | RTM | ENT. | | | |
| ٠. | | | | | | | | | | £ | · s. | d. | |
| | ross Revenue for year 1 | 952-19 | 953 | | | | | | | 678,150 | 9 | 4 | |
| Gil | Less Revenue from Fire | ewood, | etc. | | | | | | | 134,199 | 2 | 6 | |
| Gi | | | | | | | | | | 543,951 | 6 | 10 | |
| Gi | | | | | | | £ | | d. | | | | |
| | ······································ | 1 25 | | | | | | | | | | | |
| | onsolidated Revenue Fur | nd Ex | pendi | | | | ,819 | | 1 | | | | |
| | onsolidated Revenue Fur Less Expenditure on Fi | nd Ex | pendi 1 | ture | | | ,819 ,450 | | 6 | | | | |
| Co | Less Expenditure on Fi | rewood | i | | **** | 145 | ,450 | 11 | 6 | | | | |
| Co | onsolidated Revenue Fur Less Expenditure on Fir Less Timber Industry F Incidentals | rewood | i | | ies and | 145 128 | ,450 ,368 | 11 19 | 7 | | | | |
| Co | Less Expenditure on Fi | rewood Regula: | il | Salar | **** | 145 128 | ,450 | 11 19 | 6 | | | | |
| Co | Less Expenditure on Fi | rewood Regula: | il | Salar | ies and | 145 128 1 3 | ,450 ,368 ,193 | 11 19 17 | 6 7 2 | | | | |
| Co | Less Expenditure on Fi | rewood Regula: | il | Salar | ies and | 145 128 1 3 125 | ,450 ,368 ,193 ,175 | $\frac{11}{19}$ $\frac{17}{2}$ | 6 7 2 5 | | | | |
| Co | Less Expenditure on Figure 1. Less Timber Industry Figure 1. Incidentals | rewood Regular | tions, | Salar | ies and | 145 128 1 3 125 | ,450 ,368 ,193 | $\frac{11}{19}$ $\frac{17}{2}$ | 6 7 2 | 127 009 | 9. | ã | |
| Co | Less Expenditure on Figure 1. Less Timber Industry Figure 1. Incidentals | rewood Regular | tions, | Salar | ies and | 145 128 1 3 125 | ,450 ,368 ,193 ,175 | $\frac{11}{19}$ $\frac{17}{2}$ | 6 7 2 5 | 127,009 | 2 | 5 | |

the year 1952-1953

£250,165 6 9

REFORESTATION.

The total area of Jarrah, Karri and Wandoo on Crown Land and State Forest cut over during the amounted to approximately 106,000 acres. About half of this area was treemarked in accordance with our silvicultural practice and working plan control to ensure regeneration and perpetual yield. The balance being mostly outside State Forest was cut under other forms of control. Cutting on State Forest was followed by top disposal work for the protection of the immature growing stock remaining. A total of approximately 44,000 acres received this treatment. There are now 1,937,000 acres regenerated. In addition approximately 25,000 acres of Private Property on which timber is reserved to the Crown was cut over.

Management and protection is being extended into areas in the far South-West on which new mills are operating.

ROAD CONSTRUCTION AND MAINTENANCE.

The road and track system upon which management and protection to a large extent depends was increased to a total of 13,373 miles by the addition of 282 miles. Maintenance grading covered 3,353 miles.

Main Forest Divisions.

| | D: | ivision. | | | | | Construction Miles. | Maintenance Grading Miles. |
|------------|------|----------|------|------|------|------|---------------------|----------------------------------|
| Mundaring | | | | | | | 22 | 169 |
| Dwellingup | | | | | | | 19 | 532 |
| Collie | | **** | | | | | 20 | 295 |
| Kirup | **** | | | | **** | **** | 32 | 919 |
| Manjimup | .: | | | | | | 46 | 388 |
| Gleneagle | | | **** | | | | 3 | 14 |
| Narrogin | | | | | | | 3 | 112 |
| Harvey | | | | | | | 17 | 565 |
| Pemberton | | | | •••• | | | 120 | 359 |
| | | | | | | | 002 | 0.050 |
| | | | | | | | 282 | 3,353 |
| | | | | | | | | |

In addition, about 100 miles of grading were carried out within plantations and the Department undertook construction of several roads for the Main Roads Department, for which Federal Aid Road Grant money was made available.

AFFORESTATION.

Pine Plantations.

The total net area of pine plantations is now 17,690 acres. The gross area including internal firebreaks is approximately 32,000 acres.

During the year under review, 2,543 acres (net) were planted, and some 5,000 acres remain part cleared for future planting. This record reflected the accumulation of work over several years while loan money was available, but due to the shortage of loan funds for 1952–53 the future for pine planting is now obscure.

Following the planting season (July and August, 1952), plantations were reduced to a maintenance basis and very little work for future planting has proceeded.

This position is a serious one for the future of Afforestation, as a period of up to four years must elapse between the initiation of clearing a new plantation and the first large scale planting.

Nett areas planted at the various plantations this year were as follows:-

| | | | | | acres. |
|------------|------|------|---------|------|--------|
| Gnangara | | | | | 1,748 |
| Gleneagle | | | | | 121 |
| Grimwade | | | | | 76 |
| Keenan | | | • • • • | | 28 |
| Ludlow | | **** | | | 35 |
| McLarty | | | | | 14 |
| Myalup | | | | | 107 |
| Mundaring | | | | **** | 13 |
| Willcock | | | | | 367 |
| Somerville | •••• | **** | | | 34 |
| Tota | .l | | | | 2,543 |

Mallet.

The Mallet plantations now total 18,189 acres. No sowing was done this year.

In the course of thinning, 49 tons of bark were produced, and mining timber was cut for the Murchison Goldfields, totalling 9,015 cubic feet, most of which was lagging poles.

A total of 1,232 tons of bark was produced for the State, most of which came from Private Property.

PRODUCTION OF PINE LOGS.

The total production of pine logs from Departmental Pine Plantations was 13,629 loads which was obtained chiefly from first thinnings over approximately 740 acres.

Of this total, 3,554 loads were milled at Departmental centres and the balance of 10,075 loads sold chiefly to case-making firms. Two hundred and forty-five loads of logs were supplied for peeling for plywood manufacture, and the Department disposed of by sale 220 loads of processed pine mouldings, etc.

HOUSING.

Forest protection and management depends largely on the establishment of resident workers and the development of roads and tracks. During the war years and until 1950, little progress was made. Of recent years, houses have been established as follows:—

| 1948-49 | | | | 20 |
|-----------|---|------|------|----|
| 1949 - 50 | | | | 38 |
| 1950-51 | | | | 28 |
| 1951-52 | , | **** | | 47 |
| 1952-53 | | | | 32 |

The houses completed in the current year were mostly under construction in the year 1951-52, and the loan money available for the current year was insufficient to continue the planned programme.

FOREST PROTECTION AND FIRE CONTROL.

Forest protection normally includes the protection of the forest against many agencies, including fire, insects, fungi, common stealing of timber, and so forth.

During the year under revision the forest has suffered from three unusual attacks:-

- (1) The deliberate destruction on tree after tree of the covering bags used in pollenation work in tree-breeding experiments at Kalgoorlie.
- (2) The continued lighting of fires by an incendiarist at Collie.
- (3) The cutting for Christmas Trees of the tops of young pine trees in experimental plots near Dwellingup.

An area of two million acres was afforded either intensive or partial protection.

Satisfactory controlled burns, particularly Autumn burns, were reported from most Divisions, and a total of 1,336 miles of breaks were burned together with 101,000 acres of broadcast burning and 63,000 acres of top disposal and advance burn.

This was somewhat less than last year due to the late rains in September, October and November which curtailed Spring burning to some extent.

Three new lookout trees were brought into operation during the year, two of these, Beard tree and Boorara are in the extreme South and give cover to a considerable area of forest that is being brought under fire control.

The third tree at Greenbushes was manned intermittently to give better co-ordination in the Kirup District, particularly during periods of acute smoke haze.

The first fires of the season were recorded on 6th October simultaneously at Mundaring Weir and Dwellingup while the last fire of the season occurred at Manjimup on 27th May, 1953.

The total number of fires attended by Departmental gangs during the year under review was 289 as compared with 324 for the previous year, and a total of 4,042 acres of the intensively protected forest was burnt over mostly very lightly.

Causes of Fires were as follows :---

| W.A.G.R. Locos. | | | | 9 |
|-------------------|--------|--------|------|-----|
| Bush Locos. | | | | 37 |
| Escapes from Con | trol B | urns | | 32 |
| Bush Workers | | | | 17 |
| Bush Navvies | | | | 1 |
| Hunters and Fishe | ers | | | 10 |
| Householders | | | | 6 |
| On and from Priv | ate Pr | operty | | 61 |
| Firewood Cutters | | | | 5 |
| Travellers | | | | 22 |
| Lightning | | | | 3 |
| Deliberately Lit | | | | 40 |
| Children | | | | 6 |
| Mill Surroundings | | | | 9 |
| Mine Surroundings | 3 | | | 1 |
| Other Government | t Emp | loyees | | 6 |
| Stockmen | , | | | 4 |
| Tractors | | | | 5 |
| Unknown | •••• | | | 15 |
| | | | | |
| Total | •••• | •••• | **** | 289 |

The greatest individual cause of fires was escapes from Private Property with 61 or 21 per cent. of the total.

Although this number of fires is still high, all Divisions reported improved co-operation and liaison with Private Property owners, and the fact that the prohibited period for the Southern areas was prolonged to 15th March instead of 1st March probably assisted to a considerable extent.

The most alarming cause was incendiarism which accounted for 40 fires, or nearly 14 per cent. of the total. Of these 40 fires, 31 were lit in the Collie district where they accounted for 50 per cent. of the total fires for the district. In spite of the co-operation of the Police Department, the work of a black tracker and patrols by officers of the Department, no arrest has yet been made.

Sawmillers' locomotives fitted with a new type of spark arrester continued to prove satisfactory, and it is hoped that as more are similarly fitted the number of fires originating from smoke stacks will decrease. Special attention was given to locomotives with defective ash pans.

Continued and increasing co-operation with bush fire brigades and Private Property owners was a feature of the year.

Six fire schools were conducted during the year for Assistant Foresters, Overseers and power pump operators and preliminary training notes have been prepared and distributed to all officers and overseers.

Three tank-carrying Crawler tractors each of different design were given field trials during the season and promise well as future major attack units. The original designs have been further improved, and it is hoped to have six of these units in experimental use next year.

The establishment of static water points throughout the forest is continuing.

The Department continued the practice of burning protective strips round isolated schools, halls, and mill villages.

As in the past, the Department has received the co-operation of the Timber Industry, and this co-operation is greatly appreciated.

COMMUNICATIONS.

One hundred miles of new telephone lines were built chiefly in the Pemberton and Manjimup Divisions, bringing the total length of line to 1,548 miles. Good progress has been made with the re-installation of new telephone switchboards and associated wiring. Thirty switchboards were made up and installed this year. This work is proceeding.

The radio equipment functioned well during the past fire season. Certain minor modifications to the higher powered mobile transmitter increased their reliability. A new fixed station aerial system and equipment layout has been designed, one installation has been completed for testing. Results show improved performance.

WORKING PLANS AND ASSESSMENTS.

Collection and study of data for the revision of the General Working Plan due in 1954 was continued during the year, considerable progress was made in the use of air photos for this work combined with ground assessment lines to assist the interpretation.

No new flying was done for this work during the year with the exception of some experimental flights to obtain large-scale photos taken with a camera equipped with a 25in. length lens, but 515 photos covering nearly 400,000 acres were received from flying done in previous years.

Preliminary type maps were prepared covering approximately 421,500 acres, bringing the total area covered to about two million acres. Of this area four standard 40-chain scale maps were prepared, and also some 600,000 acres were summarised into areas of quality classes for Working Plan data.

Reconniais sance sketch maps were prepared for about 700,000 acres, bringing the total to over one million acres.

In addition, photos were laid down for preliminary work for some 400,000 acres, and some studies made for road location problems. Mosaics for a number of plantations were supplied for use in the field and practically all plantations now hold photo coverage.

The preparation of stereograms continued, a total of 51 now being available for study of forest types.

Apart from the many routine assessments carried out in connection with land alienation and permit problems, 26 miles of new permanent line for growth studies was established, bringing the total to 551 miles, and 12 miles of this total was re-measured. Computations from the field work are up-to-date with the exception of 14 miles.

Pamphlet 6 of the Foresters' Manual was issued incorporating a revision and consolidation of the methods to be used in the work of Permanent Line Assessments.

Working plans for firewood supplies to the Metropolitan Area and for the Mallet areas were prepared but not finalised,

ABORICULTURE.

The demand for trees from local authorities and private buyers again showed an increase.

The State Nursery at Hamel, which produces trees for distribution to farmers and rural areas, disposed, during 1952, of 40,411 trees to local authorities and private persons. The Kalgoorlie Nursery, which raises trees for use in the low rainfall inland areas, distributed 9,623 plants for the calendar year 1952, the plants being disposed of chiefly between May and August. One hundred and twenty-eight different species were available for sale.

Sowings were carried out in experimental nurseries at Dryandra and Gnangara with the object of determining the practicability of raising at these centres native plants, particularly those of the drier areas, for distribution throughout the South-Eastern Wheat Belt. This work was further extended to include the vegetative propagation of a number of our native species.

In addition to these State Nurseries, the Department raises planting stock, for its own plantation use, at a number of other nurseries, and the total number of trees thus raised amounted to nearly three million, most of which were used in the winter planting season of 1952. Some two million plants are in nurseries for 1953 planting.

Sugar Gum again proved the most popular tree distributed from Hamel, being closely followed by *Pinus pinaster* and Brush Box.

Distribution figures from Kalgoorlie show that Coral-Flowered Gum, River Gum, Dundas Blackbutt and Dundas Mahogany were by far the most popular and sales of these four species accounted for over 50% of the total number of trees distributed.

The Hamel and Kalgoorlie Nurseries operate as a service to the public, and trees are sold below cost to encourage planting. A statement of costs and expenditure is given:—

| | | | £ | £ | | | | | £ | £ |
|---------------------------|------------|------|-------|---------|------------------|---------|------|----|-------|--------|
| To Sale of Trees (includi | ng freigh | t): | | | By Hamel Nursery | : | | | | |
| Hamel Nursery | | | 2,081 | | Wages | | **** | | 2,651 | |
| Kalgoorlie Nurse | ry | | 771 | 2 2 7 2 | Incidentals | | | | 959 | 0.010 |
| 73 | | | | 2,852 | TZ 1 11 3T | | | - | | 3,610 |
| " Excess of Expenditu | ire over . | Kev- | | | " Kalgoorlie Nu | rsery : | : | | | |
| enue | **** | | •••• | 2,058 | Wages | | | | 1,097 | |
| | | | | | Incidentals | | | | 203 | |
| | | | | | | | | ** | | 1,300 |
| | | | | | | | | | - | |
| | | | | £4,910 | | | | | : | £4,910 |
| | | | | | | | | | _ | |

Arboreta

During the year, aboreta which operate both as educational centres for the public and as experimental areas for tree growth studies, were established at Newdegate, Lake Camm and Jennacubbine, bringing the total of Wheat Belt aboreta to 12. New centres are being prepared for planting at Narrogin, Three Springs, and the Newdegate Pilot Farm. Extensions were made to existing aboreta and some refilling was carried out.

Seed Distribution.

The Departmental Seed Store carries, apart from seed for use in State Nurseries, small supplies of a large variety of tree seeds.

Supplies of seed are sold to the public and to Eastern States and overseas buyers. In addition, they are supplied on an exchange basis to other forest authorities. Seeds of some 200 species are held, of which about 60 are Australian Eucalypts.

Increasing attention is being paid by countries outside Australia to the possibility of using our varied species from the drier inland areas.

There has been an increase in sales this year to a total value of £552. Parcels of seed covering 145 species were despatched to buyers, of which 55 were sent overseas.

Attention is being given to increasing the number of species held and to obtaining further stocks of the more ornamental native trees and shrubs.

RESEARCH.

Research work during the year gathered some impetus, and the Pine Research Station which is being established at Gnangara is nearing completion.

Ecology and Plant Nutrition.

Under this heading the practice was continued of establishing small plots in Pine and Mallet plantations and in the Jarrah forest to test the effect of recognised fertilisers, trace elements, and synthetic hormones at various stages of growth. A detailed study of a section of the Gnangara Plantation was commenced to correlate site factors with pine quality and disorders.

Experiments in establishment techniques continued, and planting machine efficiency was improved.

This investigation parallels litter, flora and fauna studies, while detailed chemical analysis of the cyclic return of nutrient elements to the soil is also being carried out.

Nursery Studies.

Seed provenance, nutrition, hygiene, parasite and weed control, and the many problems met with in the raising of plants in nurseries were the subject of further studies. Published papers cover certain aspects of this work.

Soil and Litter Studies.

A study of the bacteria population density in our forest soils is being carried out as a first step in the investigation of the character, composition and role of the bacteria in the exotic plantation soils. Counts are made of bacterial colonies developing on nutrient media. Samples from four centres embracing both pine plantations and the jarrah forest have been taken. Graphs showing the population count of bacteria/gram of soil at varying periods of the year have been prepared.

More emphasis has been placed on investigation into the rate of accumulation and disintegration of Jarrah litter. The first results have been published.

More than two tons of litter per acre were found to fall annually under the Jarrah forest as at present constituted in the area under study at Dwellingup. The important constituents included Calcium, 33 lb.; Potassium, 10 lb.; Nitrogen, 18·4 lb.; Magnesium, 11·6 lb.; Phosphorus, I lb. The phosphorous is equal to that in about 10 lb. of 22 per cent. superphosphate, the potassium to that in 22 lb. of sulphate of potash, and the nitrogen to that in 86 lb. of sulphate of ammonia per acre per annum, though of course in different forms. The loss through volatilisation in forest fires is under investigation.

Soil surveys were carried out at a number of different centres, including the Mallet areas.

Genetics.

Polyploid plots were set down at Gnangara, and further work is proposed following this stage, to involve softwoods, hardwoods and selected ground flora.

Eucalypt breeding work was increased this year and valuable fundamental data has been accumulated on selfing and hybridisation techniques. Promising indications have been obtained from the first series of crosses.

Entomology.

The outbreak of bark beetle (Ips grandicollis) attack first reported from a plantation (Collier) in August, 1952, has now become apparent at all Metropolitan plantations of Pinus pinaster.

Preliminary measures of control consisting of spraying infested slash and logs with chemicals are being undertaken. A study of the habits of life history of this beetle and its relationship to the development of Blue Stain fungi is being undertaken.

Co-operation was maintained with the Plant Quarantine Branch of the Commonwealth Health Department in quarantine control against Sirex and other possible pests.

Utilisation.

Work has been done on stain prevention on both hard and softwoods and improvements in procedure has been effected.

Considerable statistics have been dealt with for experimental mills, and assistance has been given to other sections of the Department as required. Assistance was given to the State Housing Commission in this field.

Proofing problems have been investigated and identifications made of various insects and fungal rots.

Forest products studies during the year included co-operation with the Division of Forest Products, C.S.I.R.O., on the re-measurement of shrinkage figures of the important commercial timbers of the State. A board shrinkage test is being run in conjunction with this work.

A preliminary trial to study the affect of re-conditioning of Karri has been completed and indicates the desirability of a full scale test.

Fence posts preservation tests using round pine and fire-killed Jarrah sapplings treated for varying periods with creosote and oil solutions have been laid down in two localities. The tests were designed to compare full length treatment to the butt treatment of previous tests.

Sand Dune Fixation.

Apart from the normal annual programme of Sand Dune Fixation on the lower Indian Ocean Coast and the Southern Ocean Coast, work has been commenced on sands immediately South of Geraldton. localised problem has arisen on part of these sands near the mouth of the Greenough River where the high lime content renders them unsuitable for Marram Grass. Experiments with other plants and fertiliser trials are in progress.

Fire Control.

Research work under this heading continued on the practice, equipment and methods necessary in actual fire suppression. Construction and use of converted tractors as power pumpers was carried further. Fundamental studies were commenced on the effects of fire on growth, and the soil and litter chemistry and populations, and on the subject of the economy of firebreak clearing by chemical and hormone applications.

Advice to Public Bodies.

As a basis for future tree planting in the Kimberley region, information is being accumulated about tree species in similar climates of the world. Conditions there are unfavourable for tree growth under rainfall of 25 to 40 in. with a mean daily maximum temperature of over 90°F., and a Relative Humidity of 50–55 per cent.

Apart from items mentioned above, advice has been given on a number of matters, both to other Departments and to the general public. Lectures have been given.

Computations and Statistical Analyses.

Machinists attached to the Research Branch carried out calculations of various types for other Branches of the Department, and also for the Lands Department and Department of Agriculture.

The Department has been severely hampered by the loss of its central laboratory for forest botany, wood technology and extension work, and the lack of satisfactory accommodation for the Head Office Research Branch where the computing and recording service is housed and which assists with the Statistical planning of experiments and carries out the analyses of the results.

EMPLOYMENT IN FORESTRY.

The number of wage earners directly employed in the forest has been estimated at approximately 7,495, made up of :---

| | vood cutters, | • ` | getters, | etc., | on per | mits | | | , | | 436 |
|-------|-----------------|---------|----------|--------|----------|---------|--------|----------|--------|-------|------------|
| Sanda | alwood gette | rs | | | | | | | | | 39 |
| Goldf | fields firewood | i cutte | rs, cont | ractor | s and w | ood-lin | e empl | oyees, a | and ca | rters | 548 |
| Direc | t employees | of the | Forest | ts De | partmer | ıt | | | | | |
| 3 | Head Office | | | | | | | | | 66 | |
|] | Field Staff | | | | | **** | | | | 102 | |
| 7 | Wages emplo | yees | | | **** | | | | | 458 | |
| (| Contractors a | ind em | ployees | 3 | | | | | | 100 | |
| | | | | | | | | | | | 726 |
| Sawn | aill employee | s inclu | iding b | ush w | vorkers | at 30t | h June | , 1953 | * | **** | 5,671 |
| Apiai | rists, estimat | ed (10 | I sites | are r | egistere | d) | | | | **** | 75 |
| | | | | | | | | | | | 7,495 |

^{*} Includes employees of all registered Sawmills.

STAFF.

I desire to again place on record my appreciation of the co-operation and loyal support of all members of both field and office staffs during the year.

T. N. STOATE,

Conservator of Forests.

LIST OF APPENDICES.

| No. 1A. | Consolidated Revenue Fund, Statement of Revenue and Expenditure for the year ended 30th June, 1953 | Page 17 |
|---------|---|------------|
| No. 1B. | Statement of Reforestation Expenditure for the year ended 30th June, 1953 | 18 |
| No. 1C. | Statement of Afforestation Expenditure for the year ended 30th June, 1953 | 19 |
| No. 1D. | Statement of General Loan Fund Housing for the year ended 30th June, 1953 | 19 |
| No. 2A. | Exports of Timber, Tanning Substances, Sandalwood, and Essential Oils during the year ended 30th June, 1953 | 20~21 |
| No. 2B. | Imports of Timber, Tanning Substances and Essential Oils during the year ended 30th June, 1953 | 22-23 |
| No. 2C. | Summary of Exports of Forest Produce since 1836 | 24 |
| No. 2D. | Summary of Imports of Timber, Tanning Materials and Essential Oils since 1848 | 25 |
| No. 2E. | Summary of Log Production in W.A. since 1829 | 26 |
| No. 3 | Timber Industry Regulation Act, 1926-46-Annual Report | 26 |
| No. 4 | Departmental Publications | 26 |

APPENDIX 1A.

CONSOLIDATED REVENUE FUND.

| Dr. | Consolidated Statement of Revenue and Expenditure. | Cr. |
|----------------|---|--|
| fo Log Royalty | £ s. d. 327,570 4 3 21,742 16 4 2,962 11 10 21,893 15 4 13,967 5 6 9,078 19 5 1,795 14 1 54,276 1 2 3,853 5 6 14,717 9 6 32,665 7 2 56,255 13 5 108,995 14 11 8,375 10 11 | £ s. d 67,319 18 14,287 18 1,315 14 45,445 9 145,450 11 273,819 11 404,330 18 |

APPENDIX 1B.

| Dr. | Statem | ent o | of Refor | restat | ion | Fund | Ex | реп | liture | for the | Year en | ded 30ti | h Jun | e, 195 3. | | | |
|---|---|---------|-----------------|--------|-----|-----------------------|---------|---------------|--------|---------|----------|----------|-------|------------------|--------|-----------------|----|
| | J., | | | | | F #14 1.00.7207. ALBE | | | | | | | | | | | |
| ~ | | | £ | s. | d. | £ | s. | d. | | | | | | | | £ | 8 |
| o Division 1— | | | 007 | 10 | _ | | | | By | | | | | Reforest | tation | | |
| Administration Busselton | | | | | 9 | | | | | _ | d—Gene | | | a , | | 3 42,065 | 2 |
| Dusseleon | • | | 206 | 9 | 2 | 1,144 | 5 | 11 | ** | Comm | onwealth | Aid R | oads | Grant | , | 46,504 | 8 |
| , Division 2— | | | | | | A, L T T | ., | 11 | [| | | | | | | | |
| Administration | i | | 1,096 | 2 | 7 | | | | | | | | | | | | |
| Mundaring | | | 13,726 | 14 | 7 | | | | | | | | | | | | |
| T) | | | | | _ | 14,822 | 17 | 2 | 1 | | | | | | | | |
| , Division 3 | | | e 001 | 10 | | | | | | | | | | | | | |
| Administration Dwellingup | | | 6,901 | | 3 | | | | 1 | | | | | | | | |
| Research Stat | ion | | 34,950 2,393 | | | | | | | | | | | | | | |
| Gleneagle | | | 7,925 | | | | | | | | | | | | | | |
| . 0 | | | | | | 52,171 | 13 | 5 | } | | | | | | | | |
| , Division 4— | | | | | | • | | | | | | | | | | | |
| Administration | 1 | | 3,985 | | | | | | | | | | | | | | |
| Collie | | | 27,285 | 2 | | | | | | | | | | | | | |
| Diminion E | | • | | | _ | 31,270 | 17 | 9 | - | | | | | | | | |
| , Division 5— Administration | 1 | | 3,044 | 11 | 8 | | | | | | | | | | | | |
| Kirup | 1 | | 34,677 | | 8 | | | | i | | | | | | | | |
| up | •••• | | | | | 37,722 | 8 | 4 | | | | | | | | | |
| Division 6— | | | | | | , | ٠ | - | | | | | | | | | |
| Administration | ı | | 6,722 | 1 | 7 | | | | 1 | | | | | | | | |
| Manjimup | | | 41,674 | | 9 | | | | | | | * | | | | | |
| Denmark | **** | | 340 | 6 | | رم - | _ | | 1 | | | | | | | | |
| Diminio- 30 | | | | | | 48,737 | 2 | 1 | | | | | | | | | |
| Division 10— Administration | , | | 2,229 | 11 7 | 1 3 | | | | | | | | | | | | |
| Harvey | | | 27,239 | | | | | | | | | | | | | | |
| | | | | | | 29,468 | 14 | 10 | | | | | | | | | |
| Division 11- | | | | | | -0,200 | | ~~ | | | | | | | | | |
| Administration | ı | | 6,162 | 2 | 3 | | | | İ | | | | | | | | |
| Pemberton | | | 52,955 | 10 1 | 10 | | | | ļ | | | | | | | | |
| | | | | | _ | 59,117 | | | | | | | | | | | |
| Kalgoorlie | **** | •••• | | | | 129 | 2 | 0 | 1 | | | | | | | | |
| Total, Di | ricional | E- | | | | | | | 1 | | | | | | | | |
| penditu | | | | | £ | 274,58 | 4 14 | L 77 | | | | | | | | | |
| • | | | | • | _ | 2.2,00 | - ^ - | • | | | | | | | | | |
| lantations— | | | | | | | | | | | | | | | | | |
| o Division 1— | | | | | | | | | | | | | | | | | |
| Keenan | **** | | 3,968 | 17 | 2 | | | | | | | | | | | | |
| Ludlow | | | 6,510 | | | | | | | | | | | | | | |
| Willcock | | | 3,337 | 11 | | 10.010 | 1 00 | - | | | | | | | | | |
| , Division 2— | | • | | | | 13,816 | 1.7 | ž. | | | | | | | | | |
| Mundaring | | | | | | 712 | 19 | 10 | Į | | | | | | | | |
| , Division 3— | | | | | | | | | | | | | | | | | |
| Dwellingup (G | leneagle' |) | | | | 4,875 | 16 | 1 | | | | | | | | | |
| Division 5- | | | | | | | | | ĺ | | | | | | | | |
| Kirup (Grimw | ade) | •••• | • • • • | | | 3,917 | 18 | 9 | İ | | | | | | | | |
| , Division 9— | | | 0.151 | 1.4 | ^ | | | | | | | | | | | | |
| Somerville Collier | | **** | 2,151 1,084 | | | | | | 1000 | | | | | | | | |
| Coiner Scaddan | **** | | | 11 | | | | | | | | | | | | | |
| | **** | | | | | 3,279 | 14 | 8 | } | | | | | | | | |
| Division 10- | | | | | | 0,2.0 | | • | į | | | | | | | | |
| Harvey Weir | , | | 1,428 | 5 | | | | | | | | | | | | | |
| McLarty | • • • • • | **** | | 0 1 | | | | | | | | | | | | | |
| Myalup | **** | **** | 6,761 | 9 | | 10 ==1 | ٦ | 7.0 | | | | | | | | | |
| Mallet Planting, | Diminion | 77 | | | | 10,771 | 15 | 10 | | | | | | | | | |
| Narrogin | | | | | | 7,322 | 7 | 3 | | | | | | | | | |
| | | | *** | • | | .,022 | | | | | | | | | | | |
| Total Pla | ntation | Ex- | | | | | | | 1 | | | | | | | | |
| penditu | re | | ٠ | | | 44,697 | 3 | 6 | | | | | | | | | |
| Training of Staff | , | | *** | | | 506 | 16 | 7 | | | | | | | | | |
| Head Office Rese | arch | | | | | 525 | | 0 | | | | | | | | | |
| Preparation of Wo | orking Pl | lans, | | | | | | | | | | | | | | | |
| etc | 411. | • • • • | | | | 7,087 | 7 | 3 | ĺ | | | | | | | | |
| Salaries and | | :es | | | | | _ | * * | Í | | | | | | | | |
| Head Office Incidentals | | | | | | 13,567 | | 11 | } | | | | | | | | |
| Ct. 1 | Allowane | | | • | | 8,544 | 4 | 10 | | | | | | | | | |
| , Salaries and I Plantations | | .VG | | | | 11,501 | 7 | R | | | | | | | | | |
| Communications a | | TICAL | *** | • | | ,001 | ' | v | | | | | | | | | |
| Services | | AIOMI | | | | 5,171 | 17 | 2 | | | | | | | | | |
| Transment not | | | | | | - ,- · - | | | l i | | | | | | | | |
| подинринено пол | | | *** | | : | 11,740 | | 5 | - | | | | | | | | |
| Divisions | | | | | | 956 | | 5 | - | | | | | | | | |
| Divisions Purchase of Land | | | | • | | | | | | | | | | | | | |
| Divisions Purchase of Land Pay Roll Tax | | **** | | | | 7.192 | _8 | 5 | | | | | | | | | |
| Divisions Purchase of Land Pay Roll Tax | | | | | | | 8 17 | $\frac{5}{2}$ | | | | | | | | | |
| Divisions Purchase of Land | | **** | | | _ | 7.192 | 17 | 2 | | | | | | | - | £388,569 | 17 |

APPENDIX 1C.

| Ð | | eme | nt oj Aj | jore —- | | ion exp | | ııur | for Year ending 30th June, 1953. | Cr. |
|----|--|-----|-------------------------------|------------|---|------------------------|-----|------|----------------------------------|--------------------|
| То | Division 1— Keenan Ludlow Willcock | | £ 3,179 8,394 11,588 | 19 3 | | £ | ·s. | d. | ### By General Loan Fund | s. d 1 : 2 : |
| ,, | Division 9— Gnangara (Wanneroo) | , | *** | | • | 23,162 31,280 | | | | ÷ . |
| " | Division 10— McLarty—Bulldozing | | **** | | | 3,633 | 0 | 0 | • | |
| ,, | Salaries—Research Branch Salaries—Head Office Pay Roll Tax | | •••• | | | 2,493 10,738 996 | 1 | 6 | | |
| | | | | | • | £72,304 | 4 | 1 | £72,304 | 4 |

APPENDIX 1D.

| Dr. | States | ment o | f General Lo | ın Fund | Н | ousir | ng for the Year ended 30th June, 1953. | ·. |
|--|--------|--------|-------------------------------------|------------------------|----|-------|--|------|
| To Division 1— Keenan Ludlow Willcock | | | £ s. d 1,611 11 14 1,441 15 1,923 8 |)) 3 | | . d. | By General Loan 32,130 17 | . d. |
| " Division 3— Dwellingup | | **** | **** | - 4,976 3,955 | | | | |
| " Division 4— Collie | | | | £193 | 10 | 11 | | |
| , Division 5— Kirup | | .,,, | | 1,459 | 19 | 1 | | |
| " Division 6— Manjimup | •••• | | | 4,286 | 4 | 0 | | |
| " Division 7— Narrogin | | | | 201 | 12 | 0 | | |
| , Division 9— Somerville Collier Gnangara | | | 983 12 1 651 8 8 2,907 0 6 | 3 | 2 | 1 | | |
| " Division 10— Harvey | teav | •••• | | 6,252 | 4 | 10 | | |
| " Division II— Pemberton | | | *** | 5,519 | 6 | 8 | | |
| " Kalgoorlie— Southern Cross | | **** | | 743 | 3 | 6 | | |
| | | | | £32,130 | 17 | 0 | £32,130 17 | 0 |

APPENDIX 2A.

WESTERN AUSTRALIA.

Exports* of Timber, Tanning Substances and Essential Oils during Year ended 30th June, 1953.

| Stat. Item No. | Item and Country of Destination. | Quantity. | Value. | Stat. Item No. | Item and Country of Destination. | Quantity. | Value. |
|----------------------|---|--|--|----------------------|---|--------------------------------|----------------------------------|
| 6301- 6309 | Wicker, Bamboo and Cane, and all Manufactures of, N.E.I.: Commonwealth States: £ New South Wales | | £A. | 6564 | TIMBER—continued. Karri: Commonwealth States: Cub. ft. £ Victoria 33,881 15,987 South Australia 310,204 131,828 Northern Territory 1,712 958 United Kingdom Belgium | 345,797 1,471 2,435 | £A. 148,773 1,180 1,880 |
| 6363 | TIMBER. Logs, not Sawn (including merely hewn or squared with the axe)— Jarrah: Commonwealth States: | Cub, ft. | | 6589 | Hardwoods (pored woods), N.E.I.: Commonwealth States: Cub. ft. £ New South Wales 63 30 South Australia 4,624 1,961 | 349,703 4,687 | 1,991 |
| 6402 | New South Wales Railway Sleepers, hewn or sawn: Commonwealth States: Cub. ft. Victoria 9,816 3,579 South Australia 927,732 396,384 | 937,548 | 399,963 | 6605 | Plywood, reneered or otherwise, including Plywood Door Panels: Commonwealth States: Sq. ft. £ Victoria 4,134 730 South Australia 40 2 Northern Territory 213 16 | Sq. ft. 4,387 | 748 |
| 6404 | Malaya, Federation of Singapore | 4,474 1,120 943,142 No. | 2,349 448 402,760 | 6616 | Mouldings— Architraces, Skirtings, and Room Mouldings, Mouldings, N.E.I.: Commonwealth States: South Australia | Lin. ft. 651 | 13 |
| 6409 | South Australia 8,510 280 Sandalwood: (Information not available for publication.) | 10,625 | . 386 | 6627 | Staves Commonwealth States Cub. ft. Let | Cub. ft. 31,386 | 40,986 |
| 6463 | Undressed Timber, N.E.I.—Beams Baulks, Half Logs and Flitches in sizes 7 inches by 2½ inches (or the equivalent) and over— Jarrah: Commonwealth States: Cub. ft. New South Wales 12 8 Victoria 61,395 25,377 South Australia 558,762 234,999 | Cub, ft. | | 6630 | Timber—Cut to size for making Boxes (Box and Crate Shooks): Commonwealth States: Cub. ft. £ New South Wales 2,582 1,680 Northern Territory 1,056 665 | 3,638 | 2,345 |
| | Northern Territory 4,447 2,397 United Kingdom Christmas Island (Indian Ocean) Mauritius and Dependencies New Zealand South Africa. Union of Iraq Netherlands Yozambique | 624,616 155,782 7,788 34,112 35,947 57,898 7,736 822 1,320 | 262,781 132,731 3,765 14,598 29,161 36,990 7,617 420 1,056 | 6641 | Timber, Tongued or Grooved or Tongued and Grooved; Weatherboards: Commonwealth States: Cub. ft. \$ Victoria | 13,141 225 303 13,669 | 12,013 91 796 12,810 |
| 6464 | Karri : Commonwealth States : Cub. ft. Victoria 40,834 18,214 South Australia 281,054 126,327 Northern Territory 17,620 11,014 | 926,021 339,508 460,107 684 13,621 | 489,119 155,555 374,905 454 8,995 | 6649 | Timber, Bent or Cut into Shape, Dressed or Partly Dressed, N.E.I.: Commonwealth States: Cub. ft. S. New South Wales 12.084 10,683 South Australia 250 217 Northern Territory 125 95 Timber, Dressed or Moulded, N.E.I.: | 12,459 | 10,995 |
| | Rhodesia, Southern South Africa, Union of | 1.383 153,820 288 969,411 | 841 107,321 199 648,270 | 0049 | Commonwealth States: Cub. ft. £ Victoria 2 4 South Australia 1,164 467 Total, Timber Exports (excluding Saudal- | 1,166 | 471 |
| 6489 | Hardwoods (pored woods), N.E.I.: Commonwealth States: Cub. ft. New South Wales 21 12 South Australia 3,785 1,504 United Kingdom | 3,806 575 | 1,516 481 | 6655 | WOOD MANUFACTURES. Casks ond Vats—Empty: | No. | 2,074,421 |
| 8510 | Undressed Timber, N.E.I.—In sizes under 7 inches by 2½ inches (or equivalent)— Softwood (non-pored wood): Commonwealth States: Northern Territory | 4,381 | 1,997 21 | | Commonwealth States: No. £ New South Wales 8,477 100,701 Victoria 466 2,859 Queensland 40 304 South Australia 283 1,346 New Zealand | 9, <u>266</u> 103 | 105,210 982 |
| 6563 | Jarrah: Commonwealth States: Cub. ft. New South Wales 1,700 1,050 Victoria 97,237 40,655 South Australia 580,568 250,413 Verthern Territory 6,002 | | | 6661 | Doors of Wood (including Fly Doors), Wholly or Partly made up : Commonwealth States : Northern Territory | 9,369 6 | 106,192 |
| | Northern Territory 6,002 3,325 United Kingdom Belgium Iraq Netherlands | 685,507 3,257 4,189 8,095 4,434 705,482 | 295,443 2,329 3,421 5,844 2,654 309,691 | 6674 | Tool Handles—Unottached: Commonwealth States: £ Victoria 216 South Australia 17 Northern Territory 67 | | 300 |

APPENDIX 2A—continued.

WESTERN AUSTRALIA.

Exports* of Timber, Tanning Substances and Essential Oils during Year ended 30th June, 1953.

| | | | , | | | | |
|----------------------|---|---|--------------|---|---|---|---|
| Stat. Item No. | Item and Country of Destination. | Quantity. | Value. | Stat. Item No. | Item and Country of Destination. | Quantity. | Value. |
| | WOOD MANUFACTURES—continued. | *************************************** | £A. | | ESSENTIAL OILS—continued. | ib. | £A. |
| 6679 | ### Articles of Wood (except Furniture), N.E.I.: Commonwealth States: | | 3,283 137 | 8239 (inc. 8231 8232 and 8234) | Essential Oils—Other, N.E.I.: Commonwealth States: lb. | 17,617 | 26,533 |
| | | | 3,420 | | United Kingdom Borneo (British) | 11,090 50 | 15,682 47 |
| 6690 | Furniture : | | | | Canada Uganda Protectorate Hong Kong India, Republic of Singapore South Africa, Union of United States of America | 4,160 400 1,436 300 941 4,314 1,120 | 2,872 181 2,540 160 2,173 1,874 3,888 |
| | Christmas Island (Indian Ocean) | | 9,633 437 | | | 41,428 | 55,950 |
| | Malaya, Federation of Singapore | | 35 53 | | Total, All Essential Oils | | 70,852 |
| | | | 10,158 | | , | | |
| | Total, Wood Manufactures | | 120,095 | | TANNING SUBSTANCES. | | |
| | Total, Wicker, Timber and Wood Manufactures | | 2,194,657 | 1600 | Tunning Bark: Commonwealth States: cwt. £ New South Wales 991 2.117 | cwt. | |
| | ESSENTIAL OILS. | | | | Victoria 13,994 29,183 Queensland 1,532 2,757 | 16,517 | 34,057 |
| 8221 | Eucalyptus : | lb. | | | Ceylon | 17 | 79 |
| | Commonwealth States: lb. £ New South Wales 32,687 2,654 Victoria 17,874 1,850 | 50,561 | 4,504 | 1610 | Tunning Extracts: (Information not available for publication). | 16,534 | 34,136 |
| 000= | | | | - 1125 | - · | | |
| 8227 | Citrus Oils: Commonwealth States: lb. £ | | | 1620 | Other Tanning Substances | | |
| | New South Wales 767 1,288 Victoria 4,702 8,603 Queensland 170 272 | | | | Total, Tanning Substances (excluding Tanning Extracts) | | 34,136 |
| | Queensland 170 272 South Australia 112 235 | 5,751 | 10,398 | | Total Value of All Exports Shown on This Return | | 2,299,645 |

Note,--* Exports to Commonwealth States are of Western Australian Origin and Overseas Exports are of Australian Origin.

APPENDIX 2B.

WESTERN AUSTRALIA.

Imports of Timber, Tanning Substances and Essential Oils during Year ended 30th June, 1953.

| Stat. | | | | Stat. | one was my 1 car cravea some state, 1555. | | |
|--|--|---|---|-------------------------|---|--|---|
| Item No. | Item and Country of Origin.* | Quantity. | Value. | Item No. | ltem and Country of Origin.* | Quantity. | Value |
| 6301- 6309 (inc.) | Wicker, Bamboo and Cane and All Manufactures of, N.E.I.— Commonwealth States: \$\Sigma_{\text{Victoria}} 27\$ Victoria 192 Queensland 686 South Austrália 121 | TOTAL | £A. | 6605 | TIMBER—continued. Plywood, Veneered or Otherwise, including Plywood Door Panels— Commonwealth States: sq. ft. £ New South Wales 154,824 6,841 Victoria | sq. ft. | £A. |
| | United Kingdom Hong Kong Malaya, Federation of Singapore China Indonesia, Republic of Total—Wicker, Bamboo and Cane Manufactures | | 1,026 7 1,562 6,471 693 310 5,356 | 6613 6614 (inc.) | Queensland | 1,180,638 | 47,523 5,016 |
| 6311~ 6389 | TIMBER. Logs—Not Sawn (including Hewn or Squared with the Aze)—Softwood and Hardwood— | cubic ft. | | 6615 | Picture Frame Mouldings— Commonwealth States: lin. ft. £ New South Wales 9,355 191 Victoria 39,800 669 | lineal ft. | 860 |
| (inc.) | Borneo (British) Ceylon | 119,397 1 | 27,837 | 6616 | Architraves, Skirtings and Room Mouldings, Mouldings. N.E.I.— | 40,135 | |
| 6401 | Undressed, N.E.I.—Spars in the Rough— Commonwealth States: cub. ft. Victoria | 119,398 | 27,838 201 | | Mollatings, N.E.1. | 735,930 | 8,427 |
| 6407 | Undressed, N.E.I.—Hickory— United States of America | 834 | 1,404 | 6625 | Shooks—Cask and Vat— Commonwealth States: New South Wales Commonwealth of Australia* | Number, 200 15 | 468 58 |
| 6411- 6449 (inc.) | Other Undressed Timber, including Beams, Baulks, Half Logs and Flütches—In sizes 7 inches x 2½ inches (or the equivalent) and over—Softwood—Commonwealth States: cub. ft. £ New South Wales 2,646 4,087 Victoria 3,233 4,756 Queensland 4,127 3,423 South Australia 14,101 12,909 Borneo (British) Brazil Indonesia, Republic of Netherlands | 24,107 612 5,197 643 279 | 25,175 333 2,846 394 200 | 6631- 6639 (inc.) | Timber Cut to Size for Making Boxes— Malaya, Federation of | 215 Cubic ft. 931 429 707 1,084 12,725 15,876 | 526 449 276 388 1,002 10,202 12,317 |
| THE REST OF PERSONS ASSESSED. | United States of America | 1,098 31,936 | 1,324 30,272 | 6641 | Timber, Tongued or Grooved or Tongued and Grooved; Weatherboards— Sweden | 3,300 | 2,651 |
| 6451- 6489 (inc.) | Other Undressed Timber, including Beams, Baults, Half Logs and Flitches—In sizes 7 inches X 2½ inches (or the equicalent) and over—Hardwood— Commonwealth States: cub. ft. & Victoria 92 81 Queensland 7.966 6.938 | | | 6647 | Blockboard (also known as Corestock)—— Commonwealth States: Queensland 543 South Australia 231 | | 774 |
| And And Andrews Control of the Contr | Tasmania 1,239 817 Borneo (British) | 9,297 78 280 9,655 | 7,836 45 308 8,189 | 6649 | Timber—Dressed or Moulded, N.E.I.— Canada Total—Timber Imports Total—Wicker, Bamboo and Timber | 2,736 | 2,205 244,515 259,940 |
| 6511- 6549 (inc.) | Other Undressed Timber, including Beams, Baults. Half Logs and Flitches—In sizes under 7 inches x 2½ inches (or the equivalent)—Softwood—Commonwealth States: cub. ft. £ New South Wales 799 1,814 Victoria 515 793 Queensland 11,036 9,527 South Australia 1,447 2,815 Tasmania 3,029 2,510 Borneo (British) Brazil Indonesia. Republic of United States of America | 16,826 12,528 7,177 5,603 1,907 | 17,459 7,871 3,931 4,089 2,294 | 6653 | WOOD MANUFACTURES. Brushmakers' Woodware and Turnery, except. Broom Stocks— Commonwealth States: 599 Victoria 599 Victoria 147 South Australia 576 Tasmania 1,419 | | 2,741 |
| 6551- 6589 (inc.) | Other Undressed Timber, including Beams, Baulks, Half Logs and Flitches—In sizes under 7 inches x 2½ inches (or the equivalent)—Hardwood—Commonwealth States: cub. ft. £ | 44,041 | 35,644 | 6655 | Casks and Vals— Commonwealth States: Number. £ New South Wales 318 1,324 Victoria 1,099 6,908 Queensland 106 555 South Australia 4,544 24,651 Tasmania 5 41 | Number. | |
| | Victoria 10 5 Queensland 24,968 22,385 Tasmania 12,992 7,455 United Kingdom Bornea (British) | 37,970 25 13,020 | 29,845 15 8 635 | 9233 | Clothes Peas | 6,072 343 6,415 | 33,479 1,347 34,826 |
| 6601 | Borneo (British) Malaya, Federation of | 13,020 2,595 53,610 sq. ft. | 8,615 1,452 39,927 | 6658 | Clothes Pegs— Commonwealth States: Gross. £ New South Wales 3,086 1,653 Victoria 7,942 2,781 South Australia 42 39 Tasmania 9,215 3,274 | Gross. | |
| | New South Wales 757,963 15,592 Victoria 71,340 2,860 Queensland 166,619 2,222 South Australia 4,348 67 | 1,000,270 | 20,741 | | Denmark Netherlands | 20,285 2,400 300 22,985 | 7,747 260 58 8,065 |
| | | · · · · · · · · · · · · · · · · · · · | | <u> </u> | : | | |

APPENDIX 2B-continued.

WESTERN AUSTRALIA.

Imports of Timber, Tanning Substances and Essential Oils during Year ended 30th June, 1953.

| Stat. Item | Item and Country of Origin.† | Quantity. | Value. | Stat. Item | Thom and Country of Oxida t | Overtites | Value |
|-------------------------|---|------------------|---|--|---|--|--|
| No. | Teem and country of Origin. | Quantity, | value. | No. | Item and Country of Origin.† | Quantity. | Value, |
| 6661 | WOOD MANUFACTURES—continued. Doors of Wood, including Fly Doors— Commonwealth States: No. £ | Number. | £A. | | WOOD MANUFACTURES—continued. Furniture—continued. | | £A. |
| | New South Wales 7 17 Victoria 36 127 Queensland 2,238 5,608 | 2,281 | 5,752 | | United Kingdom Cocos Islands Hong Kong India, Republic of Malaya, Federation of. | | 1,618 3 148 19 35 |
| 6663 | Incubators, Foster Mothers and Brooders—Commonwealth States: New South Wales | 81 | 899 | | New Guinea Singapore South Africa, Union of Indonesia, Republic of Italy | | 10 653 5 79 146 |
| 6665 | Lasts Commonwealth States : doz. £ New South Wales 13 37 Victoria 224 2,470 South Australia 48 218 | Dozens. | | | Denmark Finland Germany, Western Zone Netherlands Sweden Switzerland | | 20 3 2 20 97 40 |
| 6666 | | 285 | 2,725 | | United States of America | | 27 |
| 0000 | Match Splints— £ Commonwealth States: £ New South Wales 7 Victoria 78 | | 85 | | TotalWood Manufactures | , | 83,702 249,727 |
| | Soviet Union | | 7,596 | | TotalWicker and Bamboo, Timber and Wood Manufactures | | 509,667 |
| | ; | | 7,681 | | | | |
| 6667 | Oars and Sculls— £ Commonwealth States: No. £ New South Wales 929 1,584 Queensland 60 89 South Australia 12 37 | Number. 1,001 | 1,710 | 8211- 8239 (inc.) | ESSENTIAL OILS. Essential Oils, Natural, Non-Spirituous— Commonwealth States: lb. £ New South Wates 252,995 48,865 | ib. | |
| | United Kingdom | 7.003 | 5 | : | Victoria 7,340 4,298 Queensland 41 79 | | |
| 6671- 6674 (inc.) | Tool Handles— Commonwealth States: £ New South Wales 25,312 Victoria 5,786 Queensland 854 South Australia 634 Tasmania 2,517 United Kingdom | | 1,715 35,103 2,384 37,487 | | South Australia 17,830 6,852 | 278,206 7 1,401 112 2,059 400 4,737 4,321 376 407 4 292,030 | 60,094 59 358 37 1,009 82 1,033 5,582 1,454 2 69,804 |
| 6676 6679 (inc.) | Articles of Wood (except Furniture), N.E.I., whether partly or wholly finished— Commonwealth States: £ New South Wales | | 59,683 3,772 4 3 27 3 2 18 2222 | 1601– 1609 (inc.) 1611– 1619 (inc.) | TANNING SUBSTANCES—NATURAL ORIGIN. Tanning Bark— Commonwealth States: cwt. £ New South Wales 51 66 Tanning Extracts— Commonwealth States: cwt. £ New South Wales 5 31 Victoria 91 377 South Africa, Union of | 52 52 96 4,038 442 | 72 408 17,001 398 |
| | Italy | | 11 1 4 | | United States of America | 40 | 262 |
| | Netherlands Sweden Switzerland United States of America Commonwealth of Australia* | | 120 14 173 72 | 1620 | Other Tanning Substances—Natural Origin— Commonwealth States: | 4,616 | 18,069 |
| 225- | | | 64,134 | | Victoria | 241 1,408 200 | 541 2,559 252 |
| 6691 6699 (inc.) | Furniture— Commonwealth States: £ New South Wales 14,621 | | | | | 1,849 | 3,352 |
| (-200) | Victoria 32,436 Queensland 3,408 | | | | Total—Tanning Substances | | 21,493 |
| | South Australia 30,312 | | 80,777 | | Total Value—All Imports shown on this Return | | 600,964 |

^{*} Produce of Australia, previously exported, now returned to this State. † The tabulation of origin for interstate imports was discontinued on the 1st July, 1952, and imports from the Commonwealth States now include goods of oversea origin which, in previous years, have been recorded according to country of origin.

APPENDIX 2C. SUMMARY OF EXPORTS OF FOREST PRODUCE SINCE SINCE 1836.

| Year. 336 (a) 337 338 339 341 342 343 344 344 344 345 355 355 355 357 358 357 358 357 358 357 358 357 357 358 357 357 358 357 358 357 358 357 358 357 358 357 358 357 358 359 359 350 351 351 352 353 353 354 357 | | 10,000 (b) (b) 10,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 68,800 | Value. £ 2,500 163 255 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | Year. 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | \$\frac{\pmu}{89,179}\$ 78,419 33,888 74,804 88,146 116,420 192,451 326,195 553,198 458,461 572,354 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,91 310,893 274,141 | £ | Value. £ 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | Value. £ |
|---|--|--|---|---|---|--|-------------|--|------------------------------------|
| 337 338 339 339 341 3440 3441 3442 3443 3444 3445 3445 3450 3550 3550 3555 3556 3555 3556 3556 3556 3577 3558 3560 3660 3666 3666 3666 3666 3666 3667 3668 3669 3774 3775 3774 3775 3775 3776 3777 3778 3778 3778 3778 3778 3778 3778 3778 3778 3788 3788 3788 3788 3880 3881 3882 3883 3884 3885 3885 3885 3885 | | (b) (b) (2,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 2,500 | 1892 1893 1894 1895 1896 1897 1898 1900 1901 1902 1903 1904 1905 1906 1907 1910 1911 1912 1912 1913 1914 (d) 1915 (e) 1916 (e) 1916 (e) | 1,082,650 512,950 1,063,700 1,255,250 1,545,600 2,393,300 4,086,150 6,913,550 5,725,400 7,150,600 6,256,750 7,748,450 8,702,300 8,709,500 (c) 6,409,550 (c) 9,869,500 (c) 10,830,450 (c) 12,074,100 (c) 12,449,500 (c) 11,297,100 (c) 13,619,850 (c) 9,968,500 (c) 13,619,850 (c) 9,968,500 (d) 3,890,650 3,432,100 3,890,650 3,436,250 | 89,179 78,419 33,888 74,804 88,146 116,420 192,451 326,195 553,198 458,461 572,354 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | |
| 337 338 339 339 341 3440 3441 3442 3443 3444 3445 3445 3450 3550 3550 3555 3556 3555 3556 3556 3556 3577 3558 3560 3660 3666 3666 3666 3666 3666 3667 3668 3669 3774 3775 3774 3775 3775 3776 3777 3778 3778 3778 3778 3778 3778 3778 3778 3778 3788 3788 3788 3788 3880 3881 3882 3883 3884 3885 3885 3885 3885 | | (b) (b) (2,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 255 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1892 1893 1894 1895 1896 1897 1898 1900 1901 1902 1903 1904 1905 1906 1907 1910 1911 1912 1912 1913 1914 (d) 1915 (e) 1916 (e) 1916 (e) | 1,082,650 512,950 1,063,700 1,255,250 1,545,600 2,393,300 4,086,150 6,913,550 5,725,400 7,150,600 6,256,750 7,748,450 8,702,300 8,709,500 (c) 6,409,550 (c) 9,869,500 (c) 10,830,450 (c) 12,074,100 (c) 12,449,500 (c) 11,297,100 (c) 13,619,850 (c) 9,968,500 (c) 13,619,850 (c) 9,968,500 (d) 3,890,650 3,432,100 3,890,650 3,436,250 | 89,179 78,419 33,888 74,804 88,146 116,420 192,451 326,195 553,198 458,461 572,354 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | |
| 338 339 341 341 342 343 3444 3445 3446 3446 3446 3455 3550 3551 3552 3554 3555 3556 3556 3556 3557 3558 3556 3557 3577 3578 3579 3571 3579 3570 3571 3572 3575 3579 3579 3579 3579 3579 3579 3579 3579 3579 3579 3579 3579 3578 3579 35 | | (b) 12,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 | | 1893 1894 1895 1896 1897 1898 1900 1901 1902 1903 1904 1905 1906 1907 1909 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) | 512,950 1,063,700 1,255,250 1,545,600 2,393,300 4,086,150 6,913,550 5,725,400 7,150,600 6,256,750 8,072,300 8,709,500 (c) 8,830,700 (c) 6,409,550 (c) 10,830,450 (c) 12,074,100 (c) 12,449,500 (c) 13,619,850 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 33,888 74,804 88,146 116,420 192,451 326,195 553,198 458,461 572,354 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | £ £ £ £ £ | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | |
| 339 341 342 341 342 343 3444 3445 3446 3446 3446 3446 3455 3455 3550 3551 3555 3555 3555 3556 3557 3558 3559 3660 3662 3664 3665 3664 3665 3664 3665 3671 3772 3772 3774 3775 3774 3775 3776 3776 3777 3778 3779 3880 3881 3882 3883 3884 3885 3884 3885 | | (b) 12,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 163 255 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1894 1895 1896 1897 1898 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | 1,063,700 1,255,250 1,545,600 2,393,300 4,086,150 6,913,550 5,725,400 7,150,600 6,256,750 7,748,450 8,702,300 8,709,500 (c) 8,830,700 (c) 6,409,550 (c) 10,830,450 (c)12,074,100 (c)12,449,500 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 74,804 88,146 116,420 1192,451 326,195 553,198 458,461 572,354 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | |
| 340 341 342 343 3444 3445 3446 3446 3446 3446 3446 3455 3550 3551 3552 3553 3554 3555 3556 3556 3557 3558 3557 3560 3660 3661 3662 3665 3665 3665 3666 3677 3772 3774 3775 3774 3775 3774 3775 3776 3777 3778 3778 3778 3778 3778 3778 3778 3778 3778 3778 3 | | (b) (b) (b) 2,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 163 255 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (c) 1917 (e) 1918 (e) | 1,255,250 1,545,600 2,393,300 4,086,150 6,913,550 5,725,400 7,150,600 6,256,750 7,748,450 8,709,500 (c) 8,830,700 (c) 6,409,550 (c) 10,830,450 (c) 12,074,100 (c) 12,2449,500 (c) 11,297,100 (c) 13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 88,146 116,420 192,451 326,195 553,198 458,461 572,354 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | |
| 341 | | (b) (b) 2,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 163 255 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | 1,545,600 2,393,300 4,086,150 6,913,550 5,725,400 7,150,600 6,256,750 7,748,450 8,709,500 (c) 8,830,709, (c) 6,409,550 (c) 9,869,500 (c) 10,830,450 (c) 12,074,100 (c) 12,449,500 (c) 11,297,100 (c) 13,619,850 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 116,420 192,451 326,195 553,198 458,461 572,354 500,533 619,705 654,949 689,943 708,993 511,923 811,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | |
| 342 343 344 345 346 347 348 349 351 352 353 355 356 357 368 366 367 371 377 377 377 377 377 380 381 382 383 384 385 | | (b) 2,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 163 255 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | 2,393,300 4,086,150 6,913,550 5,725,400 7,150,600 6,256,750 8,709,500 (c) 8,830,700 (c) 6,409,550 (c) 10,830,450 (c) 12,074,100 (c) 11,297,100 (c) 13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 192,451 326,195 553,198 458,461 572,354 500,533 619,705 664,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | |
| 342 343 344 345 346 347 348 349 351 352 353 355 356 357 368 366 367 371 377 377 377 377 377 380 381 382 383 384 385 | | (b) 2,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 163 255 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1898 1899 1900 1901 1902 1903 1905 1906 1907 1908 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) | 4,086,150 6,913,550 5,725,400 7,150,600 6,256,750 8,072,300 8,709,500 (c) 8,830,700 (c) 6,409,550 (c) 10,830,450 (c)12,074,100 (c)11,297,100 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 326,195 553,198 458,461 572,354 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | | |
| 343 3444 3445 3446 3446 3447 3448 34550 3550 3551 3552 3555 3555 3556 3557 3559 3660 3662 3663 3664 3665 3666 3666 3671 3772 3774 3775 3774 3775 3776 3777 3778 3778 3779 3880 3881 3882 3882 3883 3884 3884 3885 | | (b) 2,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 163 255 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1918 (e) | 6,913,550 5,725,400 7,150,600 6,256,750 7,748,450 8,072,300 8,709,500 (c) 8,830,700 (c) 6,409,550 (c) 10,830,450 (c) 12,074,100 (c) 12,449,500 (c) 13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 553,198 458,461 572,354 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 344 345 346 347 348 348 348 348 348 348 355 355 355 355 355 355 355 355 355 355 355 356 357 358 366 366 366 366 366 366 366 366 367 377 377 377 377 377 377 377 377 377 377 377 377 377 377 377 377 377 377 378 | | (b) | 163 255 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1900 1901 1902 1903 1904 1905 1906 1907 1910 1911 1912 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | 5,725,400 7,150,600 6,256,750 7,748,450 8,709,500 (c) 8,830,700 (c) 6,409,550 (c) 9,869,500 (c) 12,074,100 (c) 12,449,500 (c) 12,619,850 (c) 13,619,850 (c) 9,968,500 (c) 9,968,500 3,432,100 3,890,650 3,436,250 | 458,461 572,354 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 345 346 347 347 351 352 355 355 355 355 355 355 355 355 355 355 355 356 3660 3661 3662 3664 3665 3664 3665 3666 3677 377 377 377 377 377 377 377 377 377 377 377 378 377 378 377 378 | | 2,550 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 255 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1901 1902 1903 1904 1905 1906 1907 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1918 (e) | 7,150,600 6,256,750 7,748,450 8,072,300 8,709,500 (c) 8,830,700 (c) 6,409,550 (c) 9,869,500 (c)10,830,450 (c)12,074,100 (c)12,449,500 (c)11,297,100 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 572,354 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 346 347 348 348 348 348 348 348 348 348 348 3550 3551 3552 3553 3554 3555 3556 3557 3558 3559 3660 3662 3664 3665 3664 3665 3666 3666 3667 3677 3770 3771 3772 3772 3774 3775 3775 3776 3777 3778 3778 3779 3880 3881 3882 3882 3883 3884 3884 3885 | | 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 | 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 | 1902 1903 1904 1905 1906 1907 1908 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (c) 1918 (e) | 6,256,750 7,748,450 8,072,300 8,709,500 (c) 8,830,709 (c) 6,409,550 (c) 10,830,450 (c) 12,074,100 (c) 12,449,500 (c) 13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | |
| 347 348 349 3550 3551 3552 3555 3555 3555 3555 3556 3557 3558 3559 3559 3660 3662 3664 3665 3664 3665 3666 3671 3772 3774 3772 3774 3775 3774 3775 3774 3776 3776 3777 3778 3778 3778 3778 3778 3778 3789 3881 3882 3882 3883 3884 3884 3885 | | 12,200 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 | 1,120 333 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 | 1902 1903 1904 1905 1906 1907 1908 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (c) 1918 (e) | 6,256,750 7,748,450 8,072,300 8,709,500 (c) 8,830,709 (c) 6,409,550 (c) 10,830,450 (c) 12,074,100 (c) 12,449,500 (c) 13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 500,533 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | |
| 348 349 350 351 352 3554 3555 3556 3557 3558 3556 3557 3558 3559 3660 3661 3662 3665 3666 3666 3666 3667 3668 3674 3774 3775 3774 3775 3775 3775 3776 3776 3777 3777 3778 3778 3778 3779 3880 3881 3882 3883 3884 3883 3884 3885 3884 3885 | | 3,350 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1903 1904 1905 1906 1908 1909 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | 7,748,450 8,072,300 8,709,500 (c) 8,830,700 (c) 6,409,550 (c) 9,869,500 (c)12,074,100 (c)12,449,500 (c)11,297,100 (c)13,619,850 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 619,705 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 859 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | |
| 349 351 352 353 3554 3555 3556 3556 3557 3558 3559 3560 3660 3661 3662 3664 3665 3666 3666 3666 3667 3666 3670 3771 3774 3775 3774 3775 3775 3775 3776 3776 3776 3776 3776 3776 3776 3778 3 | | 10,500 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 1,048 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | 8,072,300 8,709,500 (c) 8,830,700 (c) 9,869,500 (c) 10,830,450 (c) 12,074,100 (c) 12,449,500 (c) 11,297,100 (c) 13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 654,949 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 32,876 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 350 351 352 353 3554 3555 3555 3555 3555 3556 3557 3558 3559 3660 3660 3662 3664 3665 3666 3666 3666 3666 3667 3677 3771 3772 3772 3772 3773 3774 3775 3775 3775 3776 3776 3777 3778 3778 3778 3778 3778 3778 3778 3778 3778 3778 3779 3788 | | 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 | 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 | 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | 8,709,500 (c) 8,830,700 (c) 6,409,550 (c) 9,869,500 (c)10,830,450 (c)12,074,100 (c)12,449,500 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 689,943 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 154,087 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 351 352 353 354 355 356 357 358 360 361 362 363 364 3664 3665 3665 3666 371 371 371 371 371 372 373 374 377 378 379 380 381 382 383 384 385 | | 1,250 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 | 268 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 | 1906 1907 1908 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1918 (e) | (c) 8,830,700 (c) 6,409,550 (c) 9,869,500 (c)10,830,450 (c)12,074,100 (c)11,297,100 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 708,993 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 140,720 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 152 153 154 155 155 155 155 155 155 155 155 155 155 155 155 156 156 166 166 166 166 166 166 166 166 166 166 166 167 | | 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 | 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1907 1908 1909 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | (c) 6,409,550 (c) 9,869,500 (c)10,830,450 (c)12,074,100 (c)12,449,500 (c)11,297,100 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 511,923 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 98,773 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 152 153 154 155 155 155 155 155 155 155 155 155 155 155 155 156 156 166 166 166 166 166 166 166 166 166 166 166 167 | | 7,050 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 | 806 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1908 1909 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | (c) 9,869,500 (c)10,830,450 (c)12,074,100 (c)12,449,500 (c)11,297,100 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 813,591 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 79,934 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 553 | | 52,200 58,500 76,900 70,500 69,200 29,250 67,250 54,800 | 5,220 7,023 12,076 9,671 9,449 2,340 6,051 4,932 | 1909 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | (c)10,830,450 (c)12,074,100 (c)12,449,500 (c)11,297,100 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 867,419 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 59,633 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 554 555 556 557 558 559 660 661 662 663 664 665 665 666 677 671 671 671 671 672 673 674 679 679 679 679 679 670 670 671 671 671 672 673 674 675 677 678 679 679 679 670 670 671 671 672 673 674 675 677 677 677 678 679 679 670 670 671 671 672 673 674 675 677 677 678 679 679 670 670 670 671 671 672 673 674 675 677 678 679 679 670 | | 58,500 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 7,023 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1910 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | (c)12,074,100 (c)12,449,500 (c)11,297,100 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 972,698 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 93,733 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 555 556 557 558 559 560 661 662 663 664 665 665 666 667 669 670 671 673 674 677 678 679 679 679 670 671 671 672 673 674 675 677 678 679 679 670 671 671 672 673 674 675 677 677 678 679 679 670 670 671 671 672 673 674 675 677 678 679 679 670 670 670 671 672 673 674 675 677 678 679 679 670 670 670 671 671 672 673 674 675 677 678 678 679 679 679 670 67 | | 76,900 70,500 69,200 29,250 67,250 54,800 27,750 | 12,076 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1911 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) | (c)12,449,500 (c)11,297,100 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 986,341 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 83,470 49,094 47,377 18,197 6,127 10,208 18,959 | 38 |
| 556 557 558 559 560 661 662 663 664 665 666 667 668 670 671 671 671 671 672 673 674 679 679 670 671 671 671 672 673 674 675 677 678 679 679 670 671 671 671 672 673 674 675 677 677 677 677 678 679 679 670 671 671 671 672 673 674 675 677 677 677 678 679 679 670 670 670 671 671 672 673 674 675 677 678 679 679 670 670 670 671 672 673 674 675 677 677 678 678 678 679 679 670 | | 70,500 69,200 29,250 67,250 54,800 | 9,671 9,449 2,340 6,051 4,932 2,497 7,151 | 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | (c)11,297,100 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 49,094 47,377 18,197 6,127 10,208 18,959 | 38 1,10 |
| 357 358 369 361 361 362 363 364 365 366 366 366 367 368 370 371 373 374 375 377 378 379 380 381 382 383 384 384 385 | | 69,200 29,250 67,250 54,800 27,750 | 9,449 2,340 6,051 4,932 2,497 7,151 | 1912 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | (c)11,297,100 (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 903,396 1,089,481 502,153 808,392 441,991 310,893 | | 49,094 47,377 18,197 6,127 10,208 18,959 | 38 1,10 |
| 358 359 3660 3661 3662 3663 3666 3665 3666 3666 3666 3667 3671 3771 3772 3774 3775 3775 3776 3776 3776 3778 3778 3778 37880 3880 3881 3882 3882 3882 3883 3884 3885 | | 29,250 67,250 54,800 27,750 | 2,340 6,051 4,932 2,497 7,151 | 1913 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | (c)13,619,850 (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 1,089,481 502,153 808,392 441,991 310,893 | | 47,377 18,197 6,127 10,208 18,959 | 38 1,10 |
| 359 361 361 362 363 364 365 3665 3667 3669 371 3772 3773 3774 3775 3776 3777 378 379 381 382 382 383 384 | | 67,250 54,800 27,750 | 6,051 4,932 2,497 7,151 | 1914 (d) 1915 (e) 1916 (e) 1917 (e) 1918 (e) | (c) 6,279,750 (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 502,153 808,392 441,991 310,893 | | 18,197 6,127 10,208 18,959 | 38 1,10 |
| 360 361 362 363 364 365 3666 3666 3666 3666 3667 377 377 377 377 377 377 377 377 377 378 377 378 378 378 388 | | 54,800 27,750 | 4,932 2,497 7,151 | 1915 (e) 1916 (e) 1917 (e) 1918 (e) | (c) 9,968,500 5,432,100 3,890,650 3,436,250 | 808,392 441,991 310,893 | | 6,127 10,208 18,959 | 1,10 |
| 661 662 663 664 665 666 666 667 668 670 771 772 773 774 775 776 777 778 779 7890 781 782 783 784 785 786 | | 27,750 | 2,497 7,151 | 1916 (e) 1917 (e) 1918 (e) | 5,432,100 3,890,650 3,436,250 | 441,991 310,893 | | 10,208 18,959 | 1,10 |
| 362 363 3664 3664 3665 3666 3666 3666 3667 371 371 3772 3774 3774 3775 3776 3776 3776 3778 3789 3880 3881 3882 3882 3883 3884 3885 | | | 7,151 | 1917 (e) 1918 (e) | 3,890,650 3,436,250 | 310,893 | | 18,959 | |
| 362 363 3664 3664 3665 3666 3666 3666 3667 371 377 377 377 377 377 377 377 377 378 377 378 378 378 378 388 | i | | 7,151 | 1918 (e) | 3,436,250 | | 1 | | |
| 1663 1664 1665 1665 1666 1666 1667 1668 1669 1770 1772 1772 1773 1774 1775 1775 1776 1777 1778 1779 1880 1882 1882 1883 1882 1883 1884 1885 1885 | **** | 68,800 | | | | 274,141 | | | 2,06 |
| 364 365 3666 3666 3666 3667 3668 3669 3770 3771 3772 3773 3774 3774 3774 3775 3776 3776 3777 378 378 3880 3880 3881 3882 3883 3883 3884 3884 3885 | | | | | | | | 16,886 | 3,99 |
| 165 | <i></i> | 32,900 | 2,963 | 1919 (e) | 4,135,750 | 332,584 | | 18,875 | 3,98 |
| 666 | | 58,300 | 5,508 | 1920 (e) | 5,065,300 | 465,731 | 21,935 | 22,121 | 3,70 |
| 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 83 84 85 | | 183,950 | 15,693 | | | | 2.22 | 20.000 | *** |
| 368 369 371 371 372 373 375 3774 3775 3776 3777 3779 380 381 382 383 | | 85,650 | 6,849 | 1921 (e) | 9,816,250 | 1,137,819 | | 23,073 | 10,10 |
| 1669 170 171 172 173 174 175 176 177 178 180 181 182 183 184 185 | | 56,750 | 4,541 | 1922 (e) | 8,309,750 | 1,041,047 | | 13,328 | 6,87 |
| 370 371 372 373 375 375 376 377 378 380 381 382 383 384 385 | | 8,000 | 638 | 1923 (e) | 7,911,310 | 997,454 | | 21,161 | 20,07 |
| 371 372 373 374 375 376 377 378 380 381 382 383 384 | | 179,900 | 14,273 | 1924 (e) | 11,126,861 | 1,367,517 | | 29,606 | 39,87 |
| 172 173 174 175 176 177 178 180 181 182 183 184 185 | | 157,200 | 17,551 | 1925 (e) | 11,844,303 | 1,477,997 | | 40,136 | 42,0 |
| 772 773 774 775 776 777 788 789 780 781 781 782 783 784 785 | | | | 1926 (e) | 12,001,384 | 1,522,958 | | 15,056 | 47,8 |
| 173 174 175 176 177 178 180 181 182 183 184 185 | | 218,500 | 15,304 | 1927 (e) | 12,580,262 | 1,651,149 | | 15,818 | 26,4 |
| 774 775 776 777 777 779 880 881 882 883 883 | | 37,000 | 2,590 | 1928 (e) | 10,384,784 | 1,265,383 | | 27,662 | 39,13 |
| 775 776 777 778 779 880 881 882 882 883 883 | | 68,150 | 4,771 | 1929 (e) | 7,635,237 | 960,435 | | 35,850 | 63,30 |
| 776 777 778 779 780 781 782 783 784 785 | | 345,600 | 24,192 | 1930 (e) | 6,579,743 | 807,425 | 4,687 | 40,628 | 77,5 |
| 777 778 779 180 181 182 183 184 185 | | 342,350 | 23,965 | | 1 | | | 0 | |
| 878 879 880 881 882 883 884 | | 219,050 | 23,743 | 1931 (e) | 4,127,856 | 507,382 | | 35,333 | 56,17 |
| 79 80 81 82 83 84 85 | | 336,150 | 36,979 | 1932 (e) | 3,062,673 | 361,700 | | 42,016 | 59,30 |
| 80 81 82 83 84 85 | | 580,900 | 63,902 | 1933 (e) | 2,235,540 | 262,617 | | 33,352 | 26,3 |
| 80 81 82 83 84 85 | | 627,250 | 69,742 | 1934 (e) | 4,060,830 | 487,248 | | 20,904 | 26,7 |
| 82 83 84 85 | , | 662,550 | 66,252 | 1935 (e) | 5,326,117 | 636,466 | | 15,284 | 35,3 |
| 82 83 84 85 | | | | 1936 (e) | 5,598,180 | 679,522 | | 12,237 | 27,5 |
| 83 84 85 | | 792,750 | 79,277 | 1937 (e) | 5,673,903 | 699,684 | 52,338 | 14,491 | 38,18 |
| 84 85 | | 936,500 | 93,650 | 1938 (e) | 7,545,744 | 932,420 | | 13,865 | 35,1 |
| 84 85 | | 997,000 | 79,760 | 1939 (e) | 5,704,250 | 722,310 | | 17,842 | 25,5 |
| | <i>.</i> | 861,700 | 68,936 | 1940 (e) | 5,049,585 | 634,859 | 62,796 | 19,485 | 47,7 |
| | | 848,150 | 67,850 | | 17 | | | | |
| 86 | | 626,150 | 50,092 | 1941 (e) | 6,091,187 | 790,876 | 74,935 | 13,686 | 59,8 |
| 87 | .,., | 354,800 | 28,384 | 1942 (e) | 5,224,634 | 700,474 | 64,454 | 6,896 | 74,9 |
| 88 | | 525,750 | 42,060 | 1943 (c) | 3,516,566 | 605,327 | 32,426 | 1,598 | 70,2 |
| 89 | | 788,500 | 63,080 | 1944 (e) | 3,645,354 | 613,994 | | 1,294 | 72,7 |
| 90 | | 1,172,200 | 82,052 | 1945 (e) | 2,851,475 | 570,028 | 27,307 | 2,795 | 103,0 |
| | | | , | 1946 (e) | 3,373,025 | 722,061 | (f) 2,616 | 4,872 | 128,0 |
| | •••• | | | 1947 (e) | 3,458,628 | 865,255 | (f) 13,118 | 12,056 | 151,70 |
| | | | | 1948 (e) | 3,584,405 | 1,099,073 | (f) 6,572 | 9,556 | 116,40 |
| | | | | 1949 (e) | 3,198,212 | 993,152 | (f) 6,639 | 5,112 | 75,39 |
| | The state of the s | | | 1950 (e) | 2,857,946 | 974,493 | (f) 13,525 | 8,243 | 78,5 |
| | The state of the s | | | 1951 (e) | 2,342,492 | | (f) 25,101 | 16,581 | 125,8 |
| | | | | 1952 (e) | 2,373,553 | | (f) 47,689 | 19,120 | 119,10 |
| | The second secon | | | 1953 (e) | 3,965,188 | | (f) 120,095 | 34,136 | 70,88 |
| | The second secon | | | Total | 393,162,077 | 46,279,812 | 1,207,584 | 1,575,001 | 2,013,26 |

⁽a) The exports up to the year 1834 consisted only of supplies to shipping, of which no record is kept.
(b) Not available.
(c) Approximate figures only.
(d) Six months ended 30th June.
(e) Year ended 30th June.
(f) Excludes Casks (principally empty returns) previously included in this Item.
(g) Includes Items for which the quantity in cub. ft. is not available.

| | | | £ | £ | £ | | | £ | £ | |
|--------------|---------|--------|-----------------|---------------|---|--|--------|---------------------------------------|-------------------|------------------|
| 1848 | | | 464 | 1 | | 1930 | | 56,266 | 1.416 | £ 1,105 |
| 1849 | | | | | | 7007 | **** | 80,134 | 1,416 | |
| 1850 | | **** | 189 | **** | •••• | 7000 | **** | 97,810 | 3,418 | 1,546 |
| 1851 | | | 3,216 | | | 7000 | | 102,383 | 3,418 3,556 | 1,751 |
| 1852 | | | 2,479 | | • | 1004 | | | | 1,348 |
| 1853 | | | 790 | | | 100F | | 157,856 | 1,322 | 2,122 |
| 1854 | | **** | 831 | **** | **** | | | 98,494 | 582 | 1,592 |
| 1855 | | | 1.464 | | | 1906 | **** | 95,229 | 1,412 | 1,915 |
| 1856 | •••• | | 1,124 | | **** | 1907 | | 122,016 | 2,767 | 1,549 |
| 1857 | | | 744 | | | 1908 | | 93,205 | 2,392 | 4,584 |
| 1858 | **** | • | | | | 1909 | **** | 90,502 | 4,129 | 4,033 |
| 1859 | **** | | 1,528 | | | 1910 | **** | 171,280 | 3,531 | 3,686 |
| 1860 | | | 690 2,005 | | | 1911 | | 152,133 | 2,912 | 4,938 |
| 1861 | | | | | | 1912 | | 167,244 | 3,089 | 4,598 |
| 1962 | **** | **** | 1,459 1,920 | • | | 1913 1914 | **** | 202,640 | 2,651 | 5,392 |
| 1863 | **** | | 1,568 | | , | | | 78,736 | 629 | 2,823 |
| 1864 | **** | | 894 | | | 1914–15 1915–16 | | 107,763 | 2,082 | 4,988 |
| 1865 | •••• | | 548 | | ···· | | | 76,849 | 3,313 | 4,788 |
| 1866 | | | | | *** | 1916-17 | | 75,681 | 2,848 | 3,484 |
| 1867 | | **** | 1,442 | | | 1917-18 | | 58,305 | 2,020 | 4,358 |
| 1868 | •••• | | 1,727 | •••• | | 191819 | | 62,824 | 1,181 | 4,168 |
| 1869 | **** | | 1,451 | | •••• | 1919-20 | | 100,083 | 3,748 | 10,043 |
| | | | 1,408 | | | 1920-21 | | 171,654 | *4,899 | 6,106 |
| 1870 1871 | •••• | | 1,518 | | | 1921–22 | | 92,448 | 5,865 | 6,577 |
| 1872 | | **** | 736 | | | 1922–23 | | 109,428 | 6,991 | 4,033 |
| 1873 | **** | | 1,660 | | | 1923-24 | **** | 133,983 | 2,790 | 3,301 |
| | **** | • | 1,008 | | | 1924–25 | | 161,898 | 2,670 | 4,429 |
| 1874 1875 | **** | | 1,774 | | **** | 1925–26 | | 144,989 | 5,826 | 4,449 |
| 1876 | •••• | | 2,707 | •••• | | 1926–27 | | 162,193 | 8,971 | 4,254 |
| 1877 | | | 3,098 2,036 | •••• | | 1927–28 | | 183,196 | 9,648 | 6,955 |
| 1878 | **** | | 2,030 2,947 | •••• | | 1928-29 | | 241,601 | 6,894 | 4,413 |
| 1879 | •••• | | 2,340 | | | 1929-30 1930-31 | **** | 197,532 | 10,825 | 3,980 |
| 1880 | | | 3,061 | | | **** | | 76,533 | 4,145 | 3,160 |
| 1881 | •••• | **** | 3,639 | | | | | 164,496 | 4,705 | 3,505 |
| 1882 | **** | | 3,692 | | , | | •••• | 197,916 | 4,903 | 3,421 |
| 1883 | •••• | | 6,667 | **** | | | | 183,944 | 4,310 | 3,888 |
| 1884 | •••• | **** | 2,930 | | | | | 211,056 228,451 | 4,076 | 5,040 |
| 1885 | | | 11,479 | | | 7000 0- | •••• | | 5,401 | 3,921 |
| 1886 | | | 17,888 | | | | | 257,164 $270,126$ | 5,267 | 4,810 |
| 1887 | | **** | 8,136 | | | **** | , | | 4,777 | 6,560 |
| 1888 | **** | | 4,461 | | | 1938–39 1939–40 | **** | 254,315 | 3,974 | 7,014 |
| 1889 | **** | | | | •••• | 3010 13 | | 259,399 | 6,802 | 23,027 |
| 1890 | **** | | 7,686 14,979 | | | 1940–41 1941–42 | **** | 249,111 283,611 | 3,798 | 32,399 |
| 1891 | | | 18,406 | | | 1941–42 19 4 2–43 | | 283,611 163,480 | $15,846 \\ 6,250$ | 33,828 |
| 1892 | | | 26,713 | ***- | | 3040 | •••• | 149,928 | 6,250 7,883 | 47,718 68,871 |
| 1893 | | | 14,493 | **** | | 7044 | | 148,838 | 9,264 | 75,449 |
| 1894 | •••• | | 17,964 | | | 7017 .0 | | †219,466 | 19,573 | 56,295 |
| 1895 | | | 47,128 | **** | | 3040 4- | | 386,465 | 12,395 | 78,091 |
| 1896 | | | 5,381 | | | 1946–47 1947–48 | | 345,508 | 8,019 | 96,769 |
| 1897 | | | 164,552 | | | 1948-49 | | 570,755 | 8,662 | 42,926 |
| 1898 | | | 55,566 | | | 1949-50 | | 521,815 | 24,923 | 51,197 |
| 1899 | | | 45,689 | F . | | | •••• | 640,059 | 21,147 | 161,358 |
| ~500 | | | 10,000 | **** | | 1950-51 1951-52 | | 1,037,499 | 18,494 | 167,697 |
| | | | | | | 1952–53 | **** | 509,667 | 21,493 | 69,804 |
| | | 1 | | | | ************************************** | | 909,007 | 41,400 | 05,004 |
| | | | | | | Total | | 11,704,262 | 342,224 | 1,170,026 |
| | | | | | | 2002 | | , | U AMPUTE | 2,2.0,020 |
| | | | | | | | | · · · · · · · · · · · · · · · · · · · | | |
| * 1 | This ar | nd sub | sequent vears | include tenni | ing extracte | not previosply r | anorda | A | | |

^{*} This and subsequent years include tanning extracts, not previously recorded.
† This and subsequent years include values for furniture, bamboo, cane, etc., not previously included.

hongs.

APPENDIX 2E.

SUMMARY OF LOG PRODUCTION IN W.A. SINCE 1829.

| Year. | | Erown Land | | Private Property. | l'Atal | | Year. | | Crown Land. | Private Property. | Total. |
|--------|------------------|------------|---------|----------------------|-----------|------|-------|------|-------------|----------------------|-----------|
| 1829-1 | 915 | | | | | 1935 | | | 549,164 | 229,035 | 788,19 |
| | \mathbf{nated} | | | **** | 8,147,037 | 1936 | | | 628,012 | 268,722 | 896,73 |
| 1916 | | | , | | 365,824 | 1937 | | | 634.077 | 318,044 | 952,12 |
| 1917 | | | | | 337,371 | 1938 | | | 634,748 | 318,579 | 953,32 |
| 1918 | | | , | | 256,600 | 1939 | **** | | 584,953 | 221,720 | 806,67 |
| 1919 | | | 362,197 | 5,018 | 367,215 | 1940 | **** | | 553,202 | 182,791 | 735,99 |
| 1920 | | | | | 534,096 | 1941 | | | 561,783 | 205,780 | 767,56 |
| 1921 | | | | **** | 726,548 | 1942 | | | 532,733 | 112,668 | 645,40 |
| 1922 | | | | **** | 1,035,251 | 1943 | | | 472,098 | 86,458 | 558,55 |
| 1923 | **** | | | **** | 734,087 | 1944 | | | 445,050 | 89,124 | 534,17 |
| 1924 | | | | | 1,026,945 | 1945 | | **** | 439,400 | 86,191 | 525,59 |
| 1925 | | | | | 1,239,502 | 1946 | **** | **** | 422,530 | 109,647 | 532,17 |
| 1926 | **** | | | , | 1,477,227 | 1947 | ., | | 438,971 | 156,639 | 595.61 |
| 1927 | | | | , | 1,564,874 | 1948 | **** | | 445,027 | 177,438 | 622,46 |
| 1928 | • | | 855,625 | 466,889 | 1,322,514 | 1949 | | | 405,235 | 196,286 | 601,52 |
| 1929 | | | 645,795 | 221.978 | 867,773 | 1950 | **** | | 421,622 | 198,653 | 620,27 |
| 1930 | | | | | 866,155 | 1951 | | | 507,828 | 214,261 | 722,08 |
| 1931 | | | 376,457 | 242,970 | 619,427 | 1952 | | | 578,851 | 238,766 | 817,61 |
| 1932 | , | | 234,857 | 82,319 | 317,176 | 1953 | | | 684,468 | 260,428 | 944,89 |
| 1933 | | | 263,313 | 49,133 | 312,446 | _000 | | | 002,100 | 200,120 | 344,03 |
| 1934 | | | 425,263 | 126,608 | 551,871 | | Total | | | | 36,290,92 |

APPENDIX 3.

TIMBER INDUSTRY REGULATION ACT, 1926-50.

Annual Report for Year Ended 31st December, 1952.

The number of Mills registered under the provisions of the Act at the close of the year totalled 306 (159 Crown Lands, 147 Private Property).

The average number of persons employed on timber holdings each month throughout the year was 5,395 compared with 4,708 last year.

The District and Workmen's Inspectors made 1,179 inspections of Timber holdings and investigated and reported on 726 notifiable accidents, of which six were fatal.

The number of accidents per 100 persons employed was 13.4 compared with 15.7 for last year.

The total period of incapacity as a result of accidents was 16,930 days, an average of $23 \cdot 3$ days per injured person (compared with $25 \cdot 6$ days last year).

Returns as listed hereunder have been prepared, but are not included in this report.

- Number of notifiable accidents reported in accordance with Section 14 of the Act, according to months, and
 indicating the age and nationality of the injured person, the period of incapacity, and the number of cases on
 which the first aid outfit was used.
- 2. The number of accidents reported during 1952, and their classification according to location and nature of injury.
- 3. The number of accidents classified according to cause of accident and location of injury.
- 4. The number of accidents classified according to cause of accident and nature of injury.
- 5. The number of accidents classified according to the months and days of the week, on which the accident occurred.
- 6. The number of hours worked on the day and up to the time of injury by the person injured.
- 7. A return showing by months the time at which the notifiable accidents occurred.
- 8. A return showing the personal cause of accidents as determined by the Inspectors.

T. N. STOATE, Controlling Officer.

APPENDIX 4.

DEPARTMENTAL PUBLICATIONS.