SECTION X.

FORESTS, FORESTRY, AND FORESTAL PRODUCTS.

§ 1. The Forests of Australia.

1. Extent of Forests.—Although no definite survey of forest lands has been made on a uniform basis for the different States of Australia, the following table gives the results of careful estimates made for each State:—

FOREST RESERVES AND FOREST AREAS, STATE AND COMMONWEALTH, 1916.

·State.	Area of Rese	Forest rves.	Total Forest	Are		Percentage of Com- monwealth Area.	
3000	Perman- ent. (a)	Tempor- ary. (b)	Area.	Specially Reserved.	Total Forest.	Specially Reserved.	Total Forest.
	Acres.	Acres.	Acres.	%	%	%	%
New South Wales*	3,11	7,579	15,000,000	1.57	7.57	0.16	0.79
Victoria	4,128,306	125,500	11,800,000	7.56	20.98	0.22	0.62
Queensland	1,080,580	2,887,646	40,000,000	0.92	9.32	0.21	2.10
South Australia	128,294	20,235	3,800,000	0.03	1.56	0.01	0.20
Western Australia	9,908	1,611,698	20,400,000†	0.26	3.27	0.09	1.07
Tasmania		1,028,000	11,000,000	6.13	65.56	0.05	0.58
		·					
Commonwealth‡	14,13	7,746	102,000,000	-	_	0.74	5.36

⁽a) Reservations in perpetuity. (b) Reservations which may be cancelled at any time.

In the case of Victoria the figures for area of permanent reserves include 3,381,905 acres reducible only by Act of Parliament, and 746,401 acres by resolution of both Houses of Parliament.

The actual area of wooded land is probably in all cases much greater than shewn above. For example, that of Western Australia is estimated at 97,900,000 acres; Queensland has probably 143,000,000 acres; and Victoria has a considerable extent of "Mallee" country not included in the above estimate. The basis of estimation for each State in any case cannot be regarded as quite identical. Considerable areas not included as forest lands possess timber of local value.

The absolute and relative forest areas of Australia and other countries, to the latest available date, are shewn in the table on the next page.

^{*} Inclusive of Federal area. † S.W. division only. ‡ Exclusive of Northern Territory.

Country.		Total Wooded Area.	Percentage of Total Area.	Country.	Total Wooded Area.	Percentage of Total Area.
		Sq. Miles	%_		Sq. Miles.	%
Commonwealth	•••	159,375	5.36	Rumania	10,836	21.36
New Zealand		26,562	25.63	Sweden	90,241	5 2 .20
United Kingdom		4,740	3.82	Norway	26,685	21.50
France		38,620	18.65	Russia in Europe	859,375	39.00
Algeria		10,249	2.98	United States	860,000	24.08
Germany		54,015	25.90	Canada	625,000	17.34
Switzerland		3,290	20.60	Cape of Good Hope	537	0.19
Italy		17,613	15.92	British India	249.867	22.85
Austria		37,700	31.66	Japan	71,890	48.33
Hungary		34,750	29.30			

RELATIVE AREAS OF FOREST LANDS, AUSTRALIA AND OTHER COUNTRIES.

2. Distribution of Timber.—The characteristics of the forest areas are given in some detail for each State in the Official Year Book No. 6, pp. 446-9. The more conspicuous timber regions of Australia as a whole are the eastern and southern portions, including Tasmania, and, again, the south-western portion northwards and eastwards from Cape Leeuwin. In regard to distribution, on the eastern side of the continent the largest timber is found on the crests and coastal slopes of the mountain ranges, but in the south-west, in addition to the vegetation between mountains and sea, a large area of forest stretches inland from the coastal ranges. The hills encircling Adelaide and Yorke and Eyre Peninsulas also bear good forest. The Kimberley district is timbered, and in the Northern Territory and round the shores of the Gulf of Carpentaria there are considerable forest areas. In the coastal regions of parts of West and North-West Australia, and along the shores of the Great Australian Bight and Encounter Bay, there is little forest. The areas in the centre of the continent are thinly timbered.

Special articles relating to Australian Eucalyptus timbers will be found in Official Year Book No. 10, pp. 85-98.

§ 2. Forestry.

1. Objects.—Economic forestry, aiming at the conservation of forestal wealth by safeguarding forests against inconsiderate destruction, and by the suitable re-afforestation of denuded areas, is essential to the preservation of industries dependent upon an adequate supply of timber, and to the perpetuation of a necessary form of national wealth. Though in Australia large areas of virgin forests still remain, the inroads made by timber-getters, by agriculturists, and by pastoralists—who have destroyed large areas by "ring-barking"—are considerable; and it is not unlikely that climatological changes are caused thereby. It is stated that beneficial consequences follow on the planting of trees on denuded lands, or along eroding coasts, and that a forest covering beneficially regulates the effects of rainfall.

Successful planting of exotics in various parts of the Commonwealth has demonstrated that the Australian climate is suitable for the cultivation of a large number of the most valuable and beautiful of the world's timber trees.

- 2. Forestry Departments.—Each State of the Commonwealth has organised a separate forestry department or branch of service specially charged with forestal matters. Forest improvement work is carried on, areas of young forest being cleaned up by the felling and removal of stunted, diseased and suppressed growth, the burning of debris and the making of fire breaks. Provision is made for effective patrols in forest districts to check the ravages caused by fires, often caused, it, is believed, through carelessness.
- 3. Sylvicultural Nurseries and Plantations.—Recognition of the necessity for systematic sylviculture has led to the creation in most of the States of a number of

sylvicultural nurseries and plantations. The locality of these establishments, together with a brief statement of the nature of their activities, is given in previous issues of the Year Book. (Reference may be made to Official Year Book No. 6, pp. 451-3.) Details regarding forest reserves, nurseries, and plantations are as follows:—

FOREST RESERVES AND NURSERIES, 1916.

Particulars.	New South Wales.	Victoria.	Q'land.	South Australia.	Western Australia.	Tas- mania.	Common- wealth
State Forest Reserves—							
Number (for area see		015	044	44	004	C.	1.000
page 410)	829	317	344	41	334	65	1,930
State Forest Nurseries—				_		١,	1 10
Number	4	3	3	7	1	1	19
Area (acres)	25	54	2	7	17	20	125
Plantations—		į	Ì	i		ľ	
Number	7	19	3	l	2		31
Area	1.072	20,740	90		594		22,496
Number of persons em-	_,	,]
ployed in Forestry De-		1	Ì	ì		1	ì
partments—		}	İ				
A Nove to Continue Atoms	33	11	3	1	1	1	50
				1 -	1 1	1 7	1
Professional	11	5	2	1 1	1 1	2	22
General	118	126	25	141	32	7	449

^{*} Including Federal Territory area.

4. Revenue and Expenditure.—The revenue and expenditure of the State Forestry Departments from 1912-13 to 1916-17 are given below:—

REVENUE OF STATE FORESTRY DEPARTMENTS, 1912-13 to 1916-17.

	-				_ 			
· St	ate.			1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
				£	£	£	£	£.
New South Wales				96,145	99,333	87,386	68,107	67,273
Victoria				51,146	57,746	70,834	59,189	50,615
Queensland		•••		63,467	62,973	75,318	70,691	60,865
South Australia		• •••		5,609	6,868	5,588	5,981	10,259
Western Australia		•••		33,805	48,236	53,904	45,726	19,058
Tasmania	•••	•••	•••	4,414	4,659	4,224	3,615	3,860
Commonweal	th	•••	•••	254,586	279,815	297,254	253,309	211,930

EXPENDITURE OF STATE FORESTRY DEPARTMENTS, 1912-13 to 1916-17.

State.		1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
New South Wales Victoria Queensland South Australia Western Australia Tasmania		 £ 42,154 56,899 5,397 22,858 10,469 760	£ 44,828 58,007 7,386 22,832 11,463 760	£ 47,207 65,219 7,654 24,217 12,068 1,204	£ 50,531 65,142 7,416 24,892 8,870 683	£ 73,762 53,551 9,516 22,571 9,807 682
Commonwealth	•	 138,537	145,276	157,569	157,534	169,889

- 5. Instruction in Scientific Forestry.—Several schools have been established in which, while general scientific instruction is imparted, special attention is paid to forestry. In the classes, theoretical forestry, botany, geology, physics, land surveying, etc., are taught; while in outside work trainees receive practical instruction in the preparation of seed-beds, seed-sowing, propagation, planting out, pruning, the general care and improvement of plantations and natural forests, and the employment of timber to the best advantage. The desire is to give the prospective forester a thorough training in all branches of the work. Courses of lectures are also given at various centres, and, at some of the higher technical schools, members of the forest staffs are afforded opportunities of qualifying in special subjects. Methods of training, etc., are not uniform in the various States, and one of the prime objects of the Conference of 1916 was the evolution of a system which, while aiming at uniformity, would be sufficiently elastic to provide for special needs in any State.
- 6. Forest Congresses.—Interstate Conferences on Forestry were held in 1911 and 1912, chiefly with a view of securing uniformity of management. An International Forest Congress was held at Paris in June, 1913, when Professor Percy Groom, of South Kensington Imperial College, represented the Commonwealth Government. The papers and reports dealt chiefly with the threatened shortage of timber, and the measures necessary to avert the danger. In May, 1916, an Interstate Forestry Conference was held at Adelaide.

§ 3. Commercial Uses of Principal Australian Timbers.

1. General.—The uses of the more important of Australian timbers are many and various, and are indicated in previous issues of this work. (See Official Year Book No. 6, pp. 454-6; and Official Year Book No. 10, Section III., § 7 and 8).

The Commonwealth Government is experimenting with Australian woods for rifle stocks, telephone switch boards, aeroplane parts, etc. Queensland maple (Flindersia chatawaiana) is at present largely used for rifle stocks, and supplies of coachwood are being accumulated at Lithgow for the same purpose. Money has also been made available for the seasoning and storing of Australian timber, and depôts have been established at Canberra and Newington in New South Wales, and at Maribyrnong in Victoria. Timber seasoning depôts have also been established by States Governments at the principal centres, and from these, contractors may obtain timber at scheduled rates. Other timber seasoning works have been established by private enterprise.

2. Uniformity in Nomenclature.—Unfortunately the vernacular names applied to the gums, ironbarks, etc., in the various States, and even in different parts of the same State, do not always refer to identical timbers. The resulting confusion has not only been productive of loss, but it has, to some extent, prejudicially affected the timber trade. This subject is referred to at some length in the special article, "Australian Eucalyptus Timbers," in Section III., § 7 and 8, in Official Year Book No. 10. At the 1916 Forestry Conference alluded to above, the matter came up for special consideration, and a resolution was passed affirming the desirability of establishing a uniform nomenclature. It was further resolved that committees should be appointed in each State to take the necessary steps to give practical effect to that resolution.

§ 4. Forestal Industries and Production.

1. Timber.—Estimates of the quantity and value of local timber sawn and hewn in each State are given hereunder:—

QUANTITIES	S OF LOCAL	TIMBER	SAWN OF	HEWN	IN EACH	STATE	OF THE
•	COMMONWE	EALTH DU	IRING TH	E YEARS	1912 to	1916.	

Sta	te.		1912.	1913.	1914.	1915.	1916.
New South Wales Victoria Queensland South Australia Western Australia Tasmania		 	sup. feet. 162,604,000 60,000,000 163,828,000 1,775,090 217,696,000 63,243,000	156,634,000 1,899,000 218,908,000	sup. feet. 140,940,000 84,374,000 168,456,000 2,306,000 227,297,000 52,182,000	sup. feet. 115,201,000 62,589,000 144,950,000 2,026,000 123,494,000 47,890,000	121,851,000 2,824,000 100,356,000
Commonwealth		 	669,146,000	684,890,000	675,555,000	496,150,000	472,332,000

- 2. Other Forest Produce.—(i.) General. No satisfactory estimates of the total value of forest production are available. Large returns are credited to firewood, but these are subject to a wide range of uncertainty.
- (ii.) Eucalyptus Oil. A considerable quantity of eucalyptus oil is produced each year, chiefly in Victoria, the product being used as a drug and also in connection with ore flotation processes. Complete information regarding local production and consumption is not available. Oversea exports amounted in 1913 to £40,000, in 1914-15 to £21,000, in 1915-16 to £36,000, and in 1916-17 to £60,000, the bulk of the product being forwarded to the United Kingdom. Large quantities have also been exported to the United States.
- (iii.) Tan Barks. In addition to the wattle bark, mentioned at the close of this section, a valuable tan bark is obtained from the mallet (E. occidentalis) of Western Australia. Its exploitation has, however, been so rapid that the available supply is now comparatively small.

§ 5. Oversea Trade.

1. Imports.—The quantity and value of timber imports during the four years 1913 to 1916-17 inclusive are shewn according to countries of origin in the following tables. The figures in the first table are exclusive of a few items such as veneers, etc.:—

IMPORTS OF DRESSED TIMBER, COMMONWEALTH, 1913 to 1916-17.

Country of Origin.		Quar	itity.	Value.				
Country of Origin.	1913.	1914-15.	1915-16.	1916-17.	1913.	1914-15.	1915-16.	1916-17.
United Kingdom New Zealand Other British Poss Germany Norway Sweden United States Other For Countries	sup. ft. 3.537 4,427 2,344 66,737 56,251,228 23,571,012 1,938,088 634,072	sup. ft. 12,834 25,719 447,678 46,289,602 11,699,062 1,438,799 4,530	sup. ft. 265 117,929 78,622 16,858,100 7,690,606 717,003 2,711	sup. ft. 1,109 70,317 22,230 3,245,724 481,603 20,727	£ 191 32 26 1,106 399,899 197,988 19,658 4,460	£ 2111 355 3,383 334,459 95,994 14,628	145,895 66,729	£ 51 1,070 252 32,711 8,023 398
Total	82,471,445	59,918,224	25,465,236	3,841,710	613,360	449,162	222,396	42,505

As the table shews, the bulk of the imports of dressed timbers comes from Norway, Sweden (except in 1916-17) and the United States. Practically the whole of this timber consists of softwoods—deal and pine—used for lining, weatherboards, flooring, shelving, doors, box-making, etc.

IMPORTS OF UNDRESSED TIMBER, INCLUDING LOGS, COMMONWEALTH, 1913 to 1916-17.

		Quan	tity.	Value.				
Country of Origin.	1913.	1914-15.	1915-16.	1916-17.	1913.	1914-15.	1915-16.	1916-17.
	sup. ft.	sup. ft.	sup. ft.	sup. ft.	£	£	£	£
United Kingdom	65,342	236,396	91,707	56,459	1,189	2,238	1,336	438
Canada	12,263,586	1,484,840	73,166	752,571	54,369	5,368	532	4,479
India	682,724	858,999	831,939	228,601	18,490	26,550	17,924	6,618
New Zealand	64,489,843	71,000,372	75,138,381	77,557,033	433,798	469,063	479,454	536,608
Straits Settlem'ts	281,155	194,255	217,450	282,300	1,454	1,182	1,203	1,586
Other British Poss.	2,723	50,273	8,719	766,230	61	558	158	4,135
Japan	16,011,418	12,576,157	12,796,031	7,178,349	72,095	64,713	83,876	115,930
Java	45,890	6,239	48.599	4,683	1,312	41	1,345	136
Norway	6,204,961	2,857,057	1,557,451	69,695	42.162	22,086	12,279	570
Russia	10,516,517	3,301,910	211,931		66,434	20,795	1,212	
Sweden	5,905,476	2,276,154	1,653,468	36,500	44,696	19,108		604
	256,331,192	171,222,415	138,033,305	109,620,926	1,418,760	943,834	792,888	680,077
Other For. C'ntries	317,975	265,236	951,732	51,382	2,771	3,465	6,140	955
		<u> </u>			ļ			
Total	373,118,802	266,330,303	231,613,879	196,604,729	2,157,591	1,579,001	1,412,466	1,352,136

By far the larger proportion of the undressed timber imports also consists of softwoods such as yellow pine, redwood, and oregon from the United States and Canada; kauri, rimu, and white pine from New Zealand; pine from Japan, and (prior to the war) red deals from Russia, Norway and Sweden. Amongst the hardwoods imported the principal are oak from the United States and Japan, and teak from India.

2. Exports.—The quantity and value of undressed (sawn) timber exported from 1912 to 1916-17 are given below, the countries of destination being also shewn:—

EXPORTS OF UNDRESSED TIMBER (SAWN), COMMONWEALTH, 1912 to 1916-17.

Country to which		(Quantity	r. *				Value.		
Exported.	1912.	1913.	1914-15.	1915-16.	1916-17.	1912	1913.	1914-15.	1915-16.	1916-17
United Kingdom Canada Union of S. Africa Ceylon Egypt Fiji India Mauritius Mauritius Mauritius Mauritius Straits Settlem'nts Other British Pos. Argentine Repub. Belgium China Egypt Germany Japan Kaiser Willelm L. Marshall Islands Netherlands Bismarck Archip. New Caledonia Philippine Islands Port'g'ese E. Africa	1000 sup.ft. 11,325 456 39,544 576 2,359 31,477 21,061 614 481 181 1867 2,727 1 1 50 1,774 990 98 140 611 232 61 380	1000 sup.ft. 20.222 619 33,793 1,926 619 33,793 1,926 923,960 235 88,586 88 249 1,584 2,429 1,584 2,429 1,584 2,429 1,586 1311 211 201 63 3,106	1000 sup. ft. 20,185 67 34,403 5,307 1,534 13,130 555 25,517 292 2,582 27 28 6 282 96 24	1000 sup. ft. 5,741 19 23,100 300 †413 780 655 15,912 100 599 1 1	1000 tsup. ft. 1,478 260 11,944 5,444 5.444 5.45 277 2 510 70 1 1 2 2 188 255	### 1912 ### 79,940 5,893 270,282 4,153 17,342 209,312 1,501 169,516 3,682 6,410 506 184 4,447 19,193 2 333 17,394 771 1,366 6,231 2,017 414 3,890	£ 140,082 8,028 233,782 12,923 12,923 12,939 160,577 1,587 278,975 3,139 6,184 478 2,151 10,558 17,146 2,17 14,293 377 14,293 2,227 2,227 2,227 5,100 2,123 449 21,775	£ 143,698 990 241,139 36,142 149,17,238 87,260 4,366 202,398 1,690 2,026 118 4,714 1,376 17,764 17,365 73 297 81 3,258 800 239	£ 45,286 321 162,788 2.03 13,638 5,830 4,368 140,507 1.873 2,412	£ 10,118 3,796 83,598 36,041 109,323 5,278 34 6,211
U.S of America Uruguay Other For. Count.	942 1,754 1,692	1,295	294 668 256	469 124	1,433	11,182 11,689 16,814	13,979 13,752	3,891 4,518 2,581	6,826 1,398	21,354 2,512
Total	119,401	134,805	106,376	48,940	35,332	858,357	964,938	778,122	385,650	289,738

^{*} Exclusive of timber not measured in super, feet. † Previously included with foreign countries.

Description.

As the table shews, the bulk of the exports of undressed timber was consigned to South Africa, New Zealand, and the United Kingdom; and consisted of Australian hardwoods, which have earned an excellent reputation for such purposes as railway sleepers, harbour works, wood paving, etc.

The quantities of timber imported and exported during the last five years are given in the next table:—

QUANTITIES OF TIMBER IMPORTED INTO AND EXPORTED FROM THE COMMONWEALTH, 1912 to 1916-17.

1913.

1914-15.

1915-16.

1916-17.

1912.

IMPORTS.										
Veneers Sup. feet Dressed ,, Logs ,, Palings No. Pickets ,, Shingles ,, Staves—Dressed etc ,	1,815,917 76,513,670 350,052,617 18,901,739 2,065,145 1,242,720 920	83,849,002 349,680,896 23,437,906 2,302,748	62,789,849 255,897,777 10,432,526 923,155	430,060 28,653,427 223,278,433 8,335,446 808,342 2,677,620 67,380	8,014,939 195,830,413 774,316 611,399 2,083,408					
Undressed , Undressed , Laths for blinds , , other , Spokes, rims, felloes , Doors , Architraves, mouldings, etc Lin. feet Other	2,181,121 * 29,631,746 * 12,172	1,410	2,535,831 18,544,270 1,611	591,750 17,629,168 1,925 6,202	152,283 11,419,145 300					

EXPORTS.

•				1		
Veneers			•••		•••	
Dressed S	Sup. feet	975,679	716,621	742,844	498,074	322,058
Undressed \dots	,,	119,401,434	134,805,222	106,375,692	48,939,938	35,332,403
Logs	,,	1,913,973	1,899,474	411,204	226,400	197,721
Palings	No.	630,670	487,094	462,705	322,240	603,569
Pickets	,,	5,335	1,411	1,350	800	
Shingles	,,	21,332	31,300		•••	
Staves-Dressed	,etc. ,,				•••	
,, Undress			•••	840		
Laths for blinds		*	*	*	*	. *
,, other	,,	406,980	7,190	284,521	111,600	63,000
Spokes, rims, fe		*	*	*	*	• •
Doors	,, !	•	*	*	. •	*
Architraves, mo						
	Lin. feet	125,327	107,664	99,152	41,673	40,768
Other		•••				

^{*} Quantity not available.

QUANTITIES OF TIMBER IMPORTED AND EXPORTED, ETC.—Continued.

Description.	1912.	1913.	1914-15.	1915-16.	1916-17.
		`	·		

EXCESS OF IMPORTS OVER EXPORTS.

					1	
Veneers Su	p. feet		1,959,436		430,060	499,514
Dressed	,,	75,537,991	83,132,381	62,047,005	29,148,072	7,692,881
Undressed	,,	230,651,183	214,875,674	149,522,085	173,345,776	160,498,010
Logs	,,	16,987,766	21,538,432	10,021,322	8,109,046	576,595
Palings	No.	-630,670	487,094	-462,705	-232,240	603,569
Pickets	,,	2,059,810	2,301,337	921,805	807,542	611,399
Shingles	,,	1,221,388	1,495,694	1,067,060	2,677,620	2,083,408
Staves-Dressed, et		920		73,609	67,380	12,764
Undressed		2,181,121	3,639,969	2,534,991	591,750	152,283
Laths for blinds	,,	*	*	*	*	*
,, other	,,	29,224,766	46,330,311	18,259,749	17,517,568	11,356,145
Spokes, rims, fello		*	* *	*	*	´ *´
Doors	,,	*	*		. *	*
Architraves, moul				•		
	n. feet		27,266	-96,839	-35,471	40,758
Other	•••	*	*	•,	*	*
		·	·	<u>'</u>	· ———	·

* Quantity not available. Note. — signifies excess of exports over imports.

The values of the timber imports and exports during the last quinquennium are shewn hereunder:-

VALUE OF TIMBER IMPORTED INTO AND EXPORTED FROM THE COMMONWEALTH,

1912 to 1916-17.

Description	۱۰ ,	1912.	1913.	1914-15.	1915-16.	1916-17.							
	IMPORTS.												
Veneers		£ 42,379	£ 55,374	£ 43,625	£ 20,610	£ 25,670							
Dressed Undressed		578,427 2,061,666	625,032 2,036,330	468,025 1,534,188	243,155 1,383,140	74,477 1,346,497							
Logs	•••	99,939	121,261	44,813	29,326	5,639							
Palings Pickets		10,270	8,497	3,406	4,030	 2,174							
Shingles	••• •••	1,892	2,208	1,654	3,487	3,132							
Staves-Dressed, etc.		14		1,607	1,907	337							
,, Undressed Laths for blinds	•••	15,744 26	22,870	16,440	11,164	3,538							
,, other	••• •••	26,436	40,131	24,676	14,809	9,230							
Spokes, rims, felloes	•••	21,616	13,993	21,228	11,239	6,001							
Doors		3,616	445	591 31	910	103							
Architraves, mouldin Other	gs, etc	145 1,043	250 81	156	90	2,030							
Total value		2,863,213	2,926,476	2,160,440	1,723,889	1,478,828							

VALUE OF TIMBER IMPORTED AND EXPORTED, ETC.—Continued.

1	Description.			1912.	1913.	1914-15.	1915-16.	1916-17.				
EXPORTS.												
				£	£	£	£	£				
Veneers	•••							•••				
Dressed	•••			11,542	8,160	9,327	7,190	4,804				
Undressed	•••			858,357	964,938	778,073	385,650	289,738				
Logs	•••			14,950	25,325	4,020	1,716	1,648				
Palings	•••			3,734	2,688	2,403	1,225	4,176				
Pickets	•••			66	40	20	7	•••				
Shingles				106	42		•••	•••				
Staves-Dr	essed, et	c.		•••		•••		•••				
Ur	idressed			•••	•••	22		•••				
Laths for b	linds			363	297	367	152	29				
,, Othe	r			495	11	246	245	147				
Spokes, rin	is, felloe	s		12,214	8,039	6,769	6,570	4,333				
Doors				1,053	960	482	554	354				
Architraves	s, mouldi	ings, etc.		723	541	457	152	164				
Other	•••			· ··· <u> </u>				•••				
· To	otal value	Э		903,603	1,011,041	802,186	403,461	305,393				

EXCESS OF IMPORTS OVER EXPORTS.

Veneers			• • •	42,379	55,374	43,625	20,610	25,670
Dressed		•••		566,885	616,872	458,698	235,965	69,673
Undressed				1,203,309	1,071,392	756,115	997,490	1,056,759
Logs				84,989	95,936	40,793	27,610	3,991
Palings				-3,734	-2.688	-2.403	-1,225	-4,176
Pickets				10,204	8,457	3,386	4,023	2,174
Shingles				1,786	2,166	1,654	3,487	3,132
Staves-Dr	essed, et	c.		14		1,607	1,907	337
	dressed			15,744	22,870	16,418	11,164	3,538
Laths for b				337	293	-367	-152	-29
,, other	•			25,941	40,120	24,430	14,564	9,083
Spokes, rin	as, felloe	s		9,402	5,954	5,417	4,669	1,668
Doors	•••			2,563	-515	109	356	- 251
Architraves	. mouldi	ngs, etc.		-578	-291	426	-130	164
Other				1,043	81	156	90	2,030
		-		<i></i> -				l
Tro	tal value	Δ.		1,959,610	1,915,435	1,349,212	1,320,428	1,173,435
1.0	vui vaiu	•	•••	1,000,010	2,010,100	1,010,012	1,020,120	1,1.0,100
				1	<u> </u>	1	1	

Note. - signifies excess of exports over imports.

A fair amount of sandalwood is exported each year, principally from Western Australia, and to a much smaller extent from Queensland. The largest proportion of this product is consigned to Hong Kong and China, while small quantities are taken chiefly by the Straits Settlements and India.

Country to which Exported.		Quantity.					Value.				
	1912.	1913.	1914-5.	1915-6.	1916-7.	1912.	1913.	1914-5	1915-6	1916-7	
Hong Kong Straits Settlements Other British Possessions China Other Foreign Countries	2,390 7,863 36,755	17,835 10,760 13,540	15,985 11,333 50,845	10,620 8,576 18,850	7,100 9,660	1,034 3,455 16,619	5,931 4,560 5,593	9,854 6,426 27,544	6,410 4,602 9,316	4,429 5,554	
Total	. 70,095	133,675	177,149	135,115	157,502	32,900	57,947	92,435	71,493	88,049	

Tanning bark figures both as an export and import in the Commonwealth trade returns, as the following tables shew:—

EXPORTS OF TANNING BARK, 1912 to 1916-17.

Country			Quantit;	у		Value.					
to which Exported.	1912.	1913.	1914-15.	1915-16.	1916-17.	1912.	1913.	1914-15	1915-16.	1916-17	
New Zealand Other British Poss. Belgium France	 c wt. 605 73,667 1,684 40,180 49,849 2,060	ewt. 3,078 45,013 621 36,250 58,011 1,379	ewt. 218 57,873 1,006 7,256 3,256 8,049	ewt. 3,018 51,138 714 39,598	cwt. 6,797 41,098 205 11,199	£ 197 34,224 802 15,520 20,630 755	£ 1,010 20,559 307 14,281 23,653 601	£ 102 24,604 382 2,688 1,109 3,140	£ 1,434 23,574 371 16,354	£ 3,103 20,703 107 5,001	
Total	 168,045	144,352	77,658	94,468	59,299	72,128	60,411	32,025	41,733	28,914	

Prior to the war there was a fairly considerable export of tan bark to Germany and also to Belgium. The exports westward have naturally dwindled away, and at the present time New Zealand receives the largest share of the available export, while there is an increasing trade with Japan and Java. During recent years the largest proportion of the exports consisted of wattle bark from Tasmania and Victoria.

A comparison of the imports and exports of tanning bark during the last five years is given in the next table:—

TANNING BARK IMPORTED INTO AND EXPORTED FROM THE COMMONWEALTH, 1912 to 1916-17.

Particulars.	1912.	1913.	1914-15.	1915-16.	1916-17.
QUANTITIES— Imports Exports Excess of exports over imports	 cwt. 119,253 168,045 48,792	144,352	cwt. 66,136 77,658 11,522	cwt. 122,188 94,468 -27,720	cwt. 148,206 59,299 - 88,907
VALUES— Imports Exports Excess of exports over imports	 £ 50,920 72,128 21,208	60,411	£ 24,924 32,025 7,101	£ 47,698 41,733 -5,965	£ 51,461 28,914 - 22,547

Note.-The minus sign - denotes excess of imports.

The imports consist almost exclusively of wattle bark from the plantations in South Africa. One variety of Australian wattle was found to flourish in the sandy belts near the Coast, but it is the *Acacia decurrens*, var. *mollis*, which is chiefly relied upon for the production of wattle bark in the South African plantations. Seed has been tried from New South Wales, Tasmania, and Victoria, but it is stated that most of the seed is obtained from the best wattle bark areas in eastern Tasmania and western Victoria.

Two reasons have been given to account for the success of the industry in South Africa. (1.) It was found that the treeless, grassy highlands of Natal, were specially suitable for wattle culture, and the trees could therefore be grown in rows and economically attended to, while the necessary bark sheds and other appurtenances could be placed in the most advantageous positions. (2.) There was an abundance of cheap and efficient Hindoo labour available for employment on the plantations.