

# **FORESTS AND FOREST PRODUCTS**

**1968-69**



**COMMONWEALTH BUREAU OF CENSUS AND STATISTICS  
CANBERRA, AUSTRALIA**

**Reference No. 10.47**

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA, AUSTRALIA

STATISTICAL BULLETIN : FORESTS AND FOREST PRODUCTS

NO. 2 - 1968-69

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EXPLANATORY NOTES1. Introduction

This bulletin contains forestry statistics and statistics of overseas trade in forest products for 1968-69 and relevant factory statistics for 1967-68, together with comparative data for previous years.

Other publications containing forestry statistics include the Official Year Book (Reference No. 1.1), which also contains descriptive material on various aspects of the industry, and the printed bulletin Non-rural Primary Industries (Reference No. 10.23). Overseas trade and factory statistics are released separately in relevant mimeographed bulletins. Further details on the utilisation and value of forestry products can be obtained from the Manufacturing Industries Bulletins (Reference No. 12.12) No. 27 Sawmilling and No. 28 Pulp and Papermaking.

2. Scope of statistics

The statistics included in this bulletin comprise particulars relating to the activities of the State Forestry Departments and private organisations engaged in forestry; quantity and value of production of forest products from all sources; logs used by sawmills, plywood and veneer mills and other woodworking establishments for sawing, peeling and slicing; output of sawn, etc. timber and of plywood and veneers; and exports and imports of timber and timber products.

3. Source of Statistics

Statistics relating to forestry are, in general, provided by the various authorities concerned with forestry administration. In each State, suitable areas of Crown Land have been reserved for forestry purposes, either as State forests or other reserves, and the administration of these is the responsibility of the respective State Government forestry authorities. In addition, in some States, areas of forests on Crown Lands dedicated as National Parks and the like are administered by Government Departments other than the forestry authorities. There are timber resources on private land in each State, but details concerning these areas and production therefrom are not complete for all States. Forestry activities in the Northern Territory and the Australian Capital Territory are administered by the Commonwealth Government.

Particulars of forest areas and forest products in Sections I and III have been collected by the Deputy Commonwealth Statisticians of the several States, mainly from information provided by the State forestry authorities. Figures of production of eucalyptus oil, gums and resins and tanning barks have been provided by the State forestry authorities.

Data relating to employment in forestry departments are presented in Section II. Particulars of private employment are not available.

Statistics of timber and timber by-products in Sections IV and V were derived from manufacturing censuses for 1967-68 and earlier years undertaken by the Deputy Commonwealth Statisticians in the several States. Results of the 1968-69 manufacturing census, which formed a part of the integrated economic censuses conducted in respect of that year, will be available in later bulletins.

Data of exports and imports of forest products in Section VI have been compiled as part of the statistics of overseas trade.

All figures shown are for the financial years ended 30 June, unless indicated otherwise.

#### 4. Forest area statistics

Forested areas shown in this section relate to areas administered by the State or Commonwealth authorities or to those reserved by government legislation. They are not based on any inventory of forest resources using standard and uniform definitions throughout Australia. The figures, therefore, are not strictly comparable between States owing to the lack of uniformity in the interpretation of the definition of a forest.

From time to time revisions have been made to total estimated forest areas and to classification of their components in several States. Attention is drawn to the revision in Queensland in 1966-67, in consequence of which figures from that year onwards are not strictly comparable with those for previous years.

#### 5. Definition of units and symbols used

Definitions of units used:

1 superficial foot (sup ft) = 1ft x 1ft x 1in  
Hoppus measure:

$$V = \frac{\left(\frac{G}{4}\right)^2}{12} \times L$$

where V = hoppus super ft  
G = central girth in inches  
L = length in ft

Gross hoppus measure is approximately 78.5 per cent  
of the true volume

12 sup ft = 1 cu ft  
12 hoppus sup ft = 1 hoppus cu ft  
9.42 hoppus sup ft = 1 cu ft  
1 true sup ft = 1.27 hoppus sup ft

The following symbols shown in tables mean:

.. nil or less than half the final digit shown  
n.a. not available  
— not applicable  
n.e.s. not elsewhere specified

6. Any discrepancies between totals and sums of components in tables are due to rounding.

## SECTION I. FOREST AREAS

TABLE 1. - ESTIMATED FOREST AREAS (a) - 30 JUNE 1962  
('000 acres)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	A.C.T.	Australia (b)
CROWN LAND								
Exploitable -								
Broadleaved	3,218	5,229	9,470	109	7,084	2,633	25	27,775
Coniferous	151	96	120	181	60	11	33	667
Mixed wood	5,827	..	3,290	..	..	..	..	9,117
Total	9,196	5,325	12,880	290	7,144	2,644	58	37,559
Potentially exploitable -								
Broadleaved	3,115	2,569	1,000	..	..	2,097	30	8,810
Coniferous	..	2	..	..	..	26	..	28
Mixed wood	366	..	1,000	..	..	..	..	(c) 1,366
Total	3,481	2,570	2,000	..	..	2,123	30	10,204
Other forest areas	5,300	6,462	4,300	687	2,358	944	196	21,726
<u>Estimated total forest area</u>	17,977	14,358	19,180	978	9,502	5,711	284	69,488
PRIVATE LAND (d)								
Exploitable -								
Broadleaved	3,511	94	4,000	896	n.a.	1,121	..	(e) 9,622
Coniferous	22	121	..	49	2	6	..	200
Mixed wood	1,343	..	600	..	..	..	..	2,443
Total	5,376	215	4,600	945	2	1,126	..	12,264
Potentially exploitable -								
Broadleaved	587	592	..	n.a.	..	428	..	(e) 1,607
Coniferous	..	..	..	64	..	9	..	73
Mixed wood	37	..	..	..	..	..	..	37
Total	624	592	..	64	..	437	..	1,717
Other forest areas	..	1,615	500	..	n.a.	517	34	(e) 2,665
<u>Estimated total forest area</u>	6,000	2,422	5,100	1,009	2	2,081	34	16,647
TOTAL								
Exploitable -								
Broadleaved	6,729	5,323	13,470	1,005	7,084	3,754	25	37,396
Coniferous	173	218	120	230	62	16	33	867
Mixed wood	7,670	..	3,890	..	..	..	..	11,560
Total	14,572	5,540	17,480	1,235	7,146	3,770	58	49,823
Potentially exploitable -								
Broadleaved	3,702	3,161	1,000	n.a.	..	2,525	30	(e) 10,417
Coniferous	..	2	..	64	..	35	..	101
Mixed wood	403	..	1,000	..	..	..	..	1,403
Total	4,105	3,162	2,000	64	..	2,560	30	11,921
Other forest areas	5,300	8,077	4,800	687	2,358	1,461	230	24,391
<u>Estimated total forest area</u>	23,977	16,780	24,280	1,906	9,504	7,792	318	86,136

(a) Not strictly comparable between States owing to differences in definition. (b) Includes the Northern Territory. (c) Excluded are Aboriginal reserves in the Northern Territory totalling 29,286,000 acres which are estimated to be 90 per cent forest. (d) Includes "communal" land owned by Local Government Authorities. (e) Incomplete; see individual States.

TABLE 2. - ESTIMATED FOREST AREAS, AUSTRALIA, 30 JUNE

('000 acres)

	1965	1966	1967 (a)	1968	1969
CROWN LAND					
Exploitable -					
Broadleaved	25,714	24,367	27,826	27,808	27,775
Coniferous	2,535	2,537	580	615	667
Mixed wood	5,955	5,955	9,117	10,117	9,117
Total	34,204	32,859	37,523	38,540	37,559
Potentially exploitable -					
Broadleaved	6,976	8,264	8,809	8,800	8,810
Coniferous	3	20	22	24	28
Mixed wood	366	366	1,366	1,366	(a) 1,366
Total	7,344	8,650	10,197	10,191	10,204
Other forest areas	23,086	23,096	23,293	23,285	21,726
<u>Estimated total forest area</u>	64,634	64,605	71,013	72,016	69,488
PRIVATE LAND (c)					
Exploitable -					
Broadleaved (d)	7,738	7,251	9,638	9,633	9,622
Coniferous	481	486	181	190	200
Mixed wood	1,845	1,845	2,445	2,443	2,443
Total	10,064	9,582	12,265	12,266	12,264
Potentially exploitable -					
Broadleaved (d)	1,181	1,603	1,603	1,603	1,607
Coniferous	64	70	72	72	73
Mixed wood	37	37	37	37	37
Total	1,282	1,710	1,712	1,712	1,717
Other forest areas (d)	5,365	5,365	2,665	2,665	2,665
<u>Estimated total forest area</u>	16,711	16,658	16,642	16,643	16,647
TOTAL					
Exploitable -					
Broadleaved	33,452	31,618	37,464	37,442	37,396
Coniferous	3,016	3,023	761	804	867
Mixed wood	7,800	7,800	11,562	12,560	11,560
Total	44,267	42,441	49,788	50,806	49,823
Potentially exploitable -					
Broadleaved (d)	8,157	9,867	10,413	10,404	10,417
Coniferous	67	90	93	96	101
Mixed wood	403	403	1,403	1,403	(b) 1,403
Total	8,626	10,360	11,909	11,903	11,921
Other forest areas	28,452	28,462	25,958	25,950	24,391
<u>Estimated total forest area</u>	81,345	81,263	87,655	88,659	86,136

(a) Figures for 1966-67 and subsequent years are not comparable with those for previous years due to revision of forest areas in Queensland. (b) Excluded are Aboriginal reserves in the Northern Territory totalling 29,286,000 acres which are estimated to be 90 per cent forest. (c) Includes "communal" land owned by Local Government Authorities. (d) Incomplete; see footnote (a), Table 1.

TABLE 3. - FOREST RESERVATIONS AND PLANTATIONS 1969

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia
	- '000 acres -								
Forest area under reservation on Crown land, 30 June (a) -									
State forests (b)	7,042	5,670	7,261	291	4,456	2,709	1,495	..	34,657
Land reserved for timber supply (c)	1,037	150	1,752	1	2,538	255			
Other forested reserves (d)	1,519	375	2,369	687	139	2,559			
<u>Total forest area under reservation</u>	9,598	6,195	11,382	978	7,133	5,523	1,495	131	42,436
	- acres -								
Net area (f) of plantations, 31 March -									
Crown land -									
Coniferous	150,724	87,526	145,461	155,019	59,516	35,905	14,562	30,307	679,020
Broadleaved	17,586	9,330	5,002	3,405	19,111	921	131	..	55,499
Private land -									
Coniferous	28,000	110,224	35,644	41,000	2,339	14,766	..	..	231,973
Broadleaved	10,000	7,970	n.a.	285	n.a.	..	..	..	(g) 18,255
<u>Total net area of plantations</u>	206,310	215,050	186,107	199,709	80,956	51,605	14,693	30,307	984,747

(a) Not strictly comparable between States owing to differences in definition. (b) Land permanently dedicated to timber production. (c) Includes land reserved for fuel supply. (d) All other forested reserves under Government or semi-governmental control e.g. flora and fauna reserves, scenic reserves, State and National Parks. (e) Excludes Aboriginal reserves totalling 29,286,000 acres which are estimated to be 90 per cent forest. (f) Excludes fire-breaks and other areas not actually forested. (g) Incomplete; see individual States.

TABLE 4. - FOREST RESERVATIONS AND PLANTATIONS, AUSTRALIA

	1965	1966	1967	1968	1969
	- '000 acres -				
Forest area under reservation on Crown land, 30 June -					
State forests (a)	25,916	26,326	26,668	27,033	34,657
Land reserved for timber supply (b)	6,158	6,158	5,975	5,883	
Other forested reserves (c)	7,923	7,874	9,050	9,094	
<u>Total forest area under reservation</u>	39,997	40,359	41,693	42,009	42,436
	- acres -				
Net area (d) of plantations, 31 March -					
Crown land -	(e)				
Coniferous	507,392	528,967	564,995	611,374	679,020
Broadleaved	34,825	35,941	37,223	38,416	55,499
Private land -					
Coniferous	160,467	173,642	195,320	208,693	231,973
Broadleaved (f)	5,055	5,640	4,926	11,068	18,255
<u>Total net area of plantations</u>	707,739	744,190	802,464	869,551	984,747

(a) Land permanently dedicated to timber production. (b) Includes land reserved for fuel supply. (c) All other forested reserves under Government or semi-governmental control, e.g. flora and fauna reserves, scenic reserves, State and National Parks. (d) Excludes firebreaks and other areas not actually forested. (e) 30 June. (f) Incomplete; see footnote (g), Table 3.

## SECTION II. EMPLOYMENT IN FORESTRY DEPARTMENTS

TABLE 5. - EMPLOYMENT IN FORESTRY DEPARTMENTS, 30 JUNE 1969

(Number)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T. (a)	Aust.
Professional staff -									
Foresters	219	225	90	37	51	36	8	10	676
Others	88	21	78	66	15	11	..	..	279
Non-professional field staff	290	202	101	3	253	106	23	2	980
Clerical staff	291	302	230	110	50	97	18	8	1,106
Extraction (i.e. felling and carting, etc.)	1,635	..	111	..	37	7	15	..	6,235
Milling (sawing, peeling, slicing or pulping)		..	..	538	42	..	6	..	
Labour (silvicultural, forest workers, etc.)		1,049	1,425	263	601	358	73	75	
<u>Total</u>	2,523	1,799	2,035	1,017	1,049	615	143	95	9,276

(a) Includes employees of Forestry and Timber Bureau actually engaged in forestry operations in the Australian Capital Territory.

TABLE 6. - EMPLOYMENT IN FORESTRY DEPARTMENTS, AUSTRALIA

(Number)

	30 June -				
	1965	1966	1967	1968	1969
Professional staff -					
Foresters	594	611	633	658	676
Others	223	226	229	252	279
Non-professional field staff	914	970	942	962	980
Clerical staff	1,026	1,042	1,056	1,062	1,106
Extraction (i.e. felling and carting, etc.), milling (sawing, peeling, slicing or pulping) and labour (silvicultural, forest workers, etc.)	6,315	6,320	6,073	7,078	6,235
<u>Total</u>	9,072	9,169	8,933	10,012	9,276

## SECTION III. FOREST PRODUCTS

TABLE 7. - PRODUCTION OF FOREST PRODUCTS, 1968-69

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T. (a)	A.C.T.	Aust. (b)
<b>Timber -</b>									
Logs for sawing, peeling, slicing or pulping -									
Forest broadleaves '000 cu ft	55,147	75,158	22,260	680	43,188	57,914	19	..	254,366
Brushwood and scrubwoods " "	4,186	..	9,085	..	..	..	1	..	13,272
<b>Conifers -</b>									
Indigenous forest "pines" -									
Cypress " "	5,628	..	5,688	..	..	..	58	..	11,374
Other " "	564	..	2,764	..	..	368	..	..	3,696
Plantation grown "pines" " "	9,973	16,107	5,217	27,595	2,874	1,828	..	1,537	65,131
Total logs " "	75,498	91,264	45,014	28,275	46,062	60,110	79	1,537	347,838
Value of logs \$'000	22,179	25,865	15,522	5,659	8,670	13,326	209	359	91,789
<b>Hewn and other timber (not included above) -</b>									
Sleepers, hewn '000 cu ft	2,604	(a)1,343	1,434		..	(d) 24	..	..	5,405
Transoms, crossing and junk " "	282	(a) 17	197		..	..	..	..	915
Girders " "	141		279		..	..	..	..	
Bridge timbers " "	..	(a) 10	..		..	(a) 5	..	..	15
Mining timbers " "	6,064	(a) 12	194	n.a.	381	59	..	..	6,710
Fence posts and rails " "	(c)633	(a)1,516	444		263	(a) 110	15	25	3,006
Poles and piles " "	2,235	(a)1,175	710		(d)2,514	(a) 85	4	2	6,725
Timber used for tanning extract " "	..	..	..		(e)	..	..	..	..
Miscellaneous timber " "	(a) 26	(a) 121	..	658	(f)3,717	(a) 23	..	..	4,546
<b>Firewood (g) -</b>									
Weight '000 tons	178	268	52	430	551	367	1	..	1,847
Estimated volume '000 cu ft	8,841	10,718	2,358	14,343	18,369	19,544	35	..	74,208
Value of hewn and other timber \$'000	11,868	3,944	2,616	2,798	4,255	(h)2,559	29	12	28,081
<b>Other forest products -</b>									
Charcoal tons	(a)550	(a) 233	..	..	..	..	..	..	783
Tanning bark (long bark) " "	450	905	..	1	..	(e)	..	..	1,355
Essential oils cwt	2,098	(a) 572	..	35	(e)	..	..	..	2,705
Sandalwood and substitutes " "	..	..	..	..	12,560	..	..	..	12,560
Gums and resins " "	..	..	..	7,160	50	..	..	..	7,210
Other (value) \$'000	162	(a) 9	274	31	5	..	..	..	479
Value of other forest products " "	322	111	274	60	(i) 7	(e)	..	..	774
<b>Total value of forest products</b> " "	34,369	29,920	18,411	8,518	(j)13,465	15,885	238	371	121,177

(a) Incomplete; no details available for production from private land. (b) Incomplete; see individual States for relevant items. (c) Details relating to private land incomplete. (d) Includes bridge timbers. (e) Not available for publication. (f) Includes brushwood for charcoal production. (g) Excludes mill waste used as firewood. (h) Includes an estimate of value of hewn and other timber taken from private land and value of "other forest products". (i) Incomplete; excludes value of sandalwood and substitutes. (j) Includes value of timber used for tannin extract and sandalwood and substitutes.

TABLE B. - PRODUCTION OF FOREST PRODUCTS, AUSTRALIA (a)

	1964-65	1965-66	1966-67	1967-68	1968-69
<b>Timber -</b>					
Logs for sawing, peeling, slicing or pulping -					
Forest broadleaves '000 cu ft	251,733	252,587	249,965	253,723	254,366
Brushwood and scrubwoods " "	13,549	14,027	12,131	12,755	13,272
Conifers -					
Indigenous forest "pines" -					
Cypress " "	13,795	12,487	11,402	12,179	11,374
Other " "	3,766	3,706	3,568	3,475	3,696
Plantation grown "pines" " "	56,255	59,894	61,992	59,798	65,131
Total logs " "	339,117	342,701	339,078	341,930	347,838
Value of logs \$'000	86,493	87,804	88,405	89,778	91,789
Hewn and other timber (not included above) -					
Firewood (b) - weight '000 tons	2,322	2,301	2,143	1,914	1,847
Other (c) - value \$'000	15,255	17,290	15,470	16,925	17,335
Value of hewn and other timber (c) "	28,537	31,177	28,106	27,712	(d)28,081
<b>Other forest products -</b>					
Charcoal tons	702	601	927	1,061	783
Tanning bark (long bark) "	2,563	838	2,206	1,811	(e) 1,355
Essential oils owt	2,332	2,725	3,074	2,974	2,705
Sandalwood and substitutes "	16,240	20,800	14,820	15,500	12,560
Gums and resins "	7,319	6,423	7,612	6,610	7,210
Other (value) \$'000	428	440	449	508	479
Total value of other forest products (f) "	1,167	782	801	851	774
Total value of forest products (g)"	116,338	120,589	117,975	119,004	121,177

(a) Incomplete; see footnote (b), Table 5. (b) Excludes mill waste used as firewood. (c) Excludes value of timber used for tannin extract in Western Australia, details of which are not available for publication. (d) Includes value of other forest products for Tasmania. (e) Excludes Tasmania details of which are not available for publication. (f) Excludes value of sandalwood and substitutes for Western Australia, details of which are not available for publication. (g) Includes value of timber used for tannin extract, sandalwood and substitutes in Western Australia.

SECTION IV. PRODUCTION OF SELECTED PRODUCTS OF FOREST ORIGIN  
TABLE 9. - SELECTED ARTICLES PRODUCED IN ALL FACTORIES, AUSTRALIA (a)

	Unit of quantity	1965-66		1966-67		1967-68	
		Quantity	Value (\$'000)	Quantity	Value (\$'000)	Quantity	Value (\$'000)
TIMBER - UNDRESSED AND DRESSED							
Undressed sawn timber -							
Recovered from sawn logs -							
Local -							
From forest hardwoods	'000 Sup ft	1,110,861		1,088,848		1,104,222	
From brushwoods and scrubwoods	"	74,970		62,521		69,709	
From softwoods -			(b)		(b)		(b)
Natural forest "pines" -							
Cypress	"	64,588		62,283		62,014	
Other	"	22,405		20,042		19,905	
Plantation grown "pines"	"	242,539		235,266		225,764	
TOTAL LOCAL TIMBER	"	1,515,363		1,468,960		1,481,615	
Overseas grown -							
Hardwoods	"						
Softwoods	"	27,892	(b)	25,771	(b)	32,379	(b)
Kiln-dried during year	"	303,022	(b)	297,018	(b)	301,465	(b)
Sleepers	"	87,057	7,313	81,297	7,036	78,585	6,831
Palings and pickets	"	21,906	1,689	18,894	1,508	23,348	2,634
Shingles	"	(c)	(c)	(c)	(c)	(c)	(c)
Dressed timber -							
Floorboards - Australian timber	"	162,710	27,504	154,286	27,140	151,812	26,033
Overseas timber	"	721	141	324	83	463	138
Weatherboards - Australian timber	"	20,307	3,373	19,025	3,407	18,799	3,449
Overseas timber	"	2,583	631	1,857	463	2,175	608
Other dressed timber, n.e.i.	"	212,491	47,144	214,125	51,127	234,189	54,269

For footnotes see page 12.

TABLE 9. - SELECTED ARTICLES PRODUCED IN ALL FACTORIES, AUSTRALIA (a) - continued

	Unit of quantity	1965-66		1966-67		1967-68	
		Quantity	Value (\$'000)	Quantity	Value (\$'000)	Quantity	Value (\$'000)
<b>VENEERS, PLYWOOD AND CORESTOCK</b>							
Veneers, plywood and corestock -	'000 sq ft	44,465	(b)	51,712	(b)	65,360	(b)
Sliced veneers	"	752,982	(b)	749,221	(b)	826,812	(b)
Rotary veneers (1/16" basis)	"	101,938	8,687	119,766	9,627	128,673	10,801
Plywood - Commercial (3/16" basis)	"	63,452	7,234	55,752	6,703	74,326	8,667
Waterproof " "	"	3,228	230	2,897	170	2,665	171
Case " "	"	18,640	3,162	22,036	4,040	24,354	4,715
Sliced fancy " "	"	8,812	3,510	6,464	2,857	4,649	2,235
Corestock (incl. solid core doors)	"						
<b>WOOD FABRICATED MATERIALS, ETC.</b>							
Lignocellulose boards and sheets -	'000 sq ft						
Original manufacture -	"			n.a.	n.a.	n.a.	n.a.
Hardboard	"			25,768	(b)	25,088	(b)
Softboard	"						
Strawboard (1/2" thickness or more)	"			1,871	368	1,757	341
Particle board - Acoustic composition	"			90,264	14,421	113,822	18,087
Other	"						
Processed subsequent to original manufacture -	"						
Painted, coloured or coated -	"		(d)	9,907	2,041		
Hardboard	"			12,795	1,598	(e)	(e)
Other boards	"						
Primed, undercoated -	"			46,672	(b)		
All types	"						
Acoustic tiles, panels and boards -	"						
Softboard	"			2,521	653	2,904	934
Particle board	"						
Strawboard (1/2" thickness or more)	"			..	..	..	..
Cork board	"						
Wood handles -							
Axe	gross	4,087	295	4,557	356	4,310	369
Broom	"	28,367	399	29,396	439	30,941	445
Tool and Other	"	(f)	1,440	(f)	1,576	(f)	1,591

For footnotes, see page 12.

TABLE 9. - SELECTED ARTICLES PRODUCED IN ALL FACTORIES, AUSTRALIA (a) - continued

	Unit of quantity	1965-66		1966-67		1967-68	
		Quantity	Value (\$'000)	Quantity	Value (\$'000)	Quantity	Value (\$'000)
WOOD FABRICATED MATERIALS, ETC. - continued							
Wood wool	..	(g)	145	(g)	165	(g)	177
Staves	..	(g)	47	(g)	10	(g)	24
Clothes pegs (wooden)	gross	n.a.	n.a.	809,145	466	834,495	497
Containers - principally of wood							
Boxes and cases -							
Cases, fruit, vegetables etc. (inc. shooks)	'000	31,110	9,274	27,742	8,555	24,911	8,097
Other shooks	"	(g)	1,589	(g)	1,797	(g)	1,910
All other boxes, cases and crates	"	(g)	10,837	(g)	12,439	(g)	12,948
Casks and barrels (plywood)	number	29,613	523	27,959	680	27,040	529
PAPER AND PAPER PRODUCTS							
Newsprint	tons	93,211	12,106	97,255	13,365	92,648	12,688
Blotting	"	601	161	508	149	569	161
Duplicating	"	9,721	3,758	8,291	3,467	10,212	3,876
Printing	"	73,824	22,614	60,146	19,402	46,838	14,635
Writing (incl. cartridge)	"	46,716	13,203	54,846	16,302	65,942	21,317
Wrapping -							
Kraft	"	}160,445	38,418	198,503	45,597	183,591	43,344
Other	"						
Paper felts	"	1,700	366	1,905	415	1,164	243
Paper boards	"	317,553	51,465	329,496	53,726	334,660	57,093

(a) Excludes Australian Capital Territory and Northern Territory. (b) Quantity only available. (c) Not available for publication. (d) Data for 1965-66 collected on different basis. (e) Not collected. (f) Value only collected. (g) Value only available.

## SECTION V. WOOD PULPING INDUSTRIES - SELECTED FACTORY STATISTICS

TABLE 10. - SAWMILLS SUMMARY, 1967-68

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
	Number								
Factories	685	442	478	86	199	274	..	8	2,172
Persons employed (a)-				(b)				(b)	
Males	7,713	5,645	5,055		3,201	2,745	..		26,498
Females	392	293	302		191	56	..		1,415
TOTAL	8,105	5,938	5,357	(b)	3,392	2,801	..	(b)	27,913
	- \$'000 -								
Salaries and wages paid (c)	19,690	15,126	11,625		8,402	6,791	..		67,300
Value of -									
Power, fuel, light etc. used (d)	1,596	1,118	738		635	628	..		5,265
Materials etc. used (e)	55,249	35,826	21,820	(b)	15,958	18,979	..	(b)	162,405
Production (f)	37,319	25,642	19,788		17,129	12,818	..		122,972
Output (g)	94,165	62,587	42,340		33,723	32,425	..		290,642
Land and buildings (h)	13,420	12,319	4,777		2,918	3,628	..		41,639
Plant and machinery (h)	10,820	7,776	6,197		5,079	3,725	..		39,538

(a) Average over whole year, includes working proprietors. (b) Not available for publication, included in Australian total. (c) Excludes amounts drawn by working proprietors. (d) Includes water and lubricating oil. (e) Includes also value of containers, packing etc., replacement of tools and repairs to plant. (f) Value of production equals value of "output" less total of value of "power, fuel light etc. used" and value of "materials etc. used". (g) Value at factory of goods produced. (h) Depreciated or book value at end of year.

TABLE 11. - SAWMILLS : SUMMARY, AUSTRALIA

		1963-64	1964-65	1965-66	1966-67	1967-68
Factories	No.	2,345	2,299	2,256	2,215	2,172
Persons employed (a)	"	28,415	28,725	29,291	28,418	27,913
Salaries and wages paid (b)	\$'000	55,777	59,924	63,509	65,379	67,300
Value of -						
Power, fuel, light etc. used (c)	"	4,791	5,022	5,070	5,137	5,265
Materials etc. used (d)	"	140,495	151,022	151,801	156,844	162,405
Production (e)	"	103,599	115,729	119,015	120,056	122,972
Output (f)	"	248,885	271,773	275,886	282,037	290,642

(a) Average over whole year; includes working proprietors. (b) Excludes amounts drawn by working proprietors. (c) Includes water and lubricating oil. (d) Includes also value of containers, packing etc., replacement of tools and repairs to plant. (e) Value of production equals "value of output" less total value of "power, fuel, light etc. used" and "value of materials etc. used". (f) Value at factory of goods produced.

**TABLE 12. - PRINCIPAL MATERIALS USED IN SAWMILLS AND OTHER  
SPECIFIED WOOD-WORKING ESTABLISHMENTS, AUSTRALIA**  
( '000 super feet Hoppus)

	1965-66	1966-67	1967-68
Logs sawn - Australian grown -			
Forest hardwoods	2,221,477	2,174,183	2,190,286
Brushwoods and scrubwoods	102,759	94,932	101,027
Softwoods (non-pored timbers) -			
Native forest "pines" -			
Cypress	114,059	111,876	112,666
Other than cypress	26,260	25,446	23,108
Plantation grown "pines"	399,575	383,822	364,078
Logs sawn - Overseas grown -			
Hardwoods	} 14,761	} 12,137	} 15,001
Softwoods (non-pored timbers)			
Logs sliced or peeled -			
Australian grown -			
Forest hardwoods	5,273	3,772	5,479
Brushwoods and scrubwoods	37,124	37,261	40,824
Softwoods (non-pored timbers) -			
Native forest "pines" -			
Other than cypress	6,860	5,529	5,010
Plantation grown "pines"	8,792	13,016	11,152
Overseas grown -			
Hardwoods	} 29,260	} 31,925	} 37,216
Softwoods (non-pored timbers)			

TABLE 13. - PULP AND PAPER MILLS, 1967-68

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
	- Number -								
Factories	3	9	2	2	1	4	..	..	21
Persons employed (a) -									
Males	}	(b)	(b)	(b)	(b)	3,110	..	..	8,910
Females						570	..	..	1,010
TOTAL	(b)	(b)	(b)	(b)	(b)	3,680	..	..	9,920
	- \$'000 -								
Salaries and wages paid (c)						12,246	..	..	37,372
Value of -									
Power, fuel, light, etc. used (d)						3,576	..	..	13,573
Materials etc. used (e)	(b)	(b)	(b)	(b)	(b)	22,186	..	..	90,888
Production (f)						24,877	..	..	88,823
Output (g)						50,639	..	..	193,283
Land and buildings (h)						10,890	..	..	48,764
Plant and machinery (h)						19,889	..	..	117,020

(a) Average over whole year; includes working proprietors. (b) Not available for publication, included in Australian total. (c) Excludes amounts drawn by working proprietors. (d) Includes water and lubricating oil. (e) Includes also value of containers, packing, etc., replacement of tools and repairs to plant. (f) Value of production equals "value of output" less total of "Value of power, fuel, light, etc. used" and "Value of materials, etc. used". (g) Value at factory of goods produced. (h) Depreciated or book value at end of year.

TABLE 14. - PULP AND PAPER MILLS SUMMARY, AUSTRALIA

		1963-64	1964-65	1965-66	1966-67	1967-68
Factories	No.	26	25	25	23	21
Persons employed (a)	"	9,205	9,411	9,782	10,087	9,920
Salaries and wages paid (b)	\$'000	28,011	31,000	32,780	36,293	37,372
Value of -						
Power, fuel, light, etc. used (c)	"	9,944	10,763	11,589	13,115	13,573
Materials etc. used (d)	"	66,555	76,704	81,786	87,647	90,888
Production (e)	"	66,195	74,466	75,050	80,351	88,823
Output (f)	"	142,695	161,932	168,425	181,114	193,283

(a) Average over whole year, includes working proprietors. (b) Excludes amounts drawn by working proprietors. (c) Includes water and lubricating oil. (d) Includes also value of containers, packing etc., replacement of tools and repairs to plant. (e) Value of production equals "Value of Output" less total of "Value of power, fuel, light, etc. used" and "Value of materials etc. used". (f) Value at factory of goods produced.

TABLE 15. - PRINCIPAL MATERIALS USED IN PULP MAKING, AUSTRALIA

		1964-65	1965-66	1966-67	1967-68
Wood	'000 tons	963	1,095	1,196	1,193
Limestone	"	28	29	28	29
Chlorine	"	7	8	8	8
Sulphur	"	3	3	5	5

## SECTION VI. OVERSEAS TRADE

TABLE 16. - EXPORTS OF CRUDE WOOD, TIMBER AND CORK, AUSTRALIA

	Quantity			Value		
	1966-67	1967-68	1968-69	1966-67	1967-68	1968-69
Australian produce -				- \$'000 f.o.b. -		
Wood waste and charcoal (incl. shell and nut charcoal)	-	-	-	2	2	86
Wood in the rough or roughly squared	-	-	-	666	636	286
Wood, shaped or simply worked -						
Railway or tramway sleepers <sup>'000</sup> sup ft	26,023	5,621	3,312	3,280	863	522
Timber, sawn lengthwise sliced or peeled, but not further prepared, of a thickness exceeding 5 mm -						
Conifer	393	574	143	95	99	37
Non-conifer - Jarrah	3,976	3,886	6,723	569	643	1,169
Other	7,565	5,978	6,281	1,221	991	1,123
Timber (incl. blocks, strips, and friezes for parquet or wood block flooring, not assembled), planed, tongued etc. -						
Conifer	830	808	540	233	224	146
Non-conifer	468	588	624	114	146	114
Cork, raw and waste cwt	131	..	101	13	..	5
Total Australian produce				6,193	3,604	3,488
Re-exports				126	149	121
<u>Total</u>				6,319	3,753	3,609

TABLE 17. - EXPORTS OF CRUDE WOOD, TIMBER AND CORK, 1968-69

	Non-conifer sawn timber (a)					Other	Total
	Quantity		Value				
	Jarrah	Other	Jarrah	Other	Total		
	- '000 sup ft -		- \$'000 f.o.b. -				
Country of consignment -							
Germany, Fed. Rep. of	..	436	..	67	67	3	70
Gilbert & Ellice Is.	..	..	..	..	..	88	88
Hong Kong	..	..	..	..	..	43	43
Japan	..	..	..	..	..	138	138
Kenya	1,609	..	233	..	233	..	233
New Zealand	529	3,696	74	587	661	245	906
Saudi Arabia	..	..	..	..	..	167	167
South Africa	256	656	37	98	135	72	207
United Kingdom	3,914	232	756	61	817	313	1,130
United States of America	..	449	..	150	150	21	171
Other	415	835	69	166	235	221	456
State of final shipment -							
New South Wales	2	3,047	1	515	516	444	960
Victoria	17	125	3	32	35	43	78
Queensland	..	339	..	93	93	106	199
Western Australia	6,704	2,299	1,165	332	1,497	613	2,110
Tasmania	..	487	..	155	155	105	260
Northern Territory	..	8	..	2	2	..	2
<b>Total</b>	6,723	6,304	1,169	1,129	2,298	1,311	3,609
Australian produce	6,723	6,281	1,169	1,123	2,291	1,197	3,488
Re-exports	..	23	..	7	7	114	121

(a) Wood shaped or simply worked, non-conifer timber, sawn lengthwise, sliced or peeled, but not further prepared, of a thickness exceeding 5mm.

TABLE 18. - EXPORTS OF NON-CONIFER SAWN TIMBER (a)

	Quantity ('000 sup ft)			Value (\$'000 f.o.b.)		
	1966-67	1967-68	1968-69	1966-67	1967-68	1968-69
JARRAH (b)						
Country of consignment -						
Kenya	..	1,005	1,609	..	145	233
New Zealand	427	461	529	58	65	74
United Kingdom	1,062	1,712	3,914	176	328	756
Other	2,487	708	671	335	105	107
State of final shipment -						
New South Wales	14	..	2	2	..	1
Victoria	..	4	17	..	1	3
Western Australia	3,962	3,882	6,704	566	642	1,165
<u>Total</u>	3,976	3,886	6,723	569	643	1,169
OTHER NON-CONIFER						
Country of consignment -						
Germany, Fed. Rep. of	214	316	436	32	49	67
Netherlands	303	216	230	48	37	38
New Zealand	5,015	3,243	3,696	754	488	587
South Africa	573	919	656	84	139	98
United Kingdom	253	150	232	50	40	61
United States of America	236	436	449	67	100	150
Other	1,036	778	605	210	154	128
State of final shipment -						
New South Wales	4,391	2,496	3,047	690	417	515
Victoria	310	219	125	82	48	32
Queensland	218	316	339	48	78	93
South Australia	..	2	..	..	3	..
Western Australia	2,475	2,707	2,299	372	399	332
Tasmania	236	301	487	53	61	155
Northern Territory	..	13	8	..	4	2
<u>Total</u>	7,630	6,057	6,304	1,245	1,009	1,129
Australian produce	7,565	5,978	6,281	1,221	991	1,123
Re-exports	65	79	23	24	18	7

(a) Wood shaped or simply worked, non-conifer timber, sawn lengthwise, sliced or peeled, but not further prepared, of a thickness exceeding 5 mm. (b) Australian produce : there were no re-exports.

TABLE 12. - EXPORTS OF SELECTED ITEMS OF FOREST ORIGIN OTHER  
THAN CRUDE WOOD, TIMBER AND CORK, AUSTRALIA

	Quantity			Value			
	1966-67	1967-68	1968-69	1966-67	1967-68	1968-69	
				- \$'000 f.o.b. -			
Plants and parts of plants used in dying and tanning	cwt	2,590	1,920	385	8	5	3
Natural gums, resins, gum-resins, balsam and lacs	"	9,180	8,160	7,569	63	66	60
Eucalyptus oil	'000 lb	308	355	205	221	269	149
Wood and cork manufactures (except furniture) -							
Wood sawn lengthwise, sliced or peeled, not further prepared, veneer sheets and sheets for plywood, of a thickness not exceeding 5mm	'000 sq ft	3,207	3,584	3,604	133	151	162
Plywood, blockboard, laminated wood products, inlaid wood and marquetry, cellular wood panels -							
Plywood	"	3,383	1,715	1,710	427	316	319
Other	"	-	-	1,928	17	100	162
Improved wood		-	-	-	24	3	1
Reconstituted wood, in panels, sheets or strips	'000 sq ft	1,153	1,106	1,262	151	147	191
Wooden beadings and mouldings		-	-	-	120	61	176
Wood, simply shaped or worked n.e.s.		-	-	-	33	8	24
Wood manufactures n.e.s.		-	-	-	894	715	1,242
Cork manufactures n.e.s.		-	-	-	31	83	78

TABLE 20. - IMPORTS OF CRUDE WOOD, TIMBER AND CORK, AUSTRALIA

	Quantity			Value		
	1966-67	1967-68	1968-69	1966-67	1967-68	1968-69
	- '000 sup ft -			- \$'000 f.o.b. -		
Wood waste and charcoal	-	-	-	10	10	16
Wood in the rough or roughly squared	44,763	53,166	49,033	2,896	3,695	3,322
Wood shaped or simply worked -						
Timber, sawn lengthwise, sliced or peeled, but not further prepared, of a thickness exceeding 5 mm -						
Conifer -						
Douglas fir	177,183	171,316	195,132	16,366	16,104	21,785
Hemlock and balsam	15,395	11,200	12,562	1,003	865	1,175
Radiata pine	26,531	25,016	29,474	2,004	1,868	2,108
Redwood and western cedar	22,414	28,905	30,065	2,728	3,851	4,455
Other	13,174	18,564	17,693	1,757	2,443	2,600
Total conifer	254,697	255,001	284,926	23,858	25,131	32,123
Non-conifer	-	-	-	6,981	11,278	10,707
Timber (including blocks, strips, etc.) planed, tongued, grooved, rebated, etc. but not further manufactured -						
Conifer	4,681	4,553	5,028	677	677	802
Non-conifer	798	1,763	1,756	158	312	333
Cork, raw and waste	-	-	-	330	404	282
<b><u>TOTAL</u></b>				34,910	41,506	47,585

TABLE 21. - IMPORTS OF CRUDE WOOD, TIMBER AND CORK, 1968-69

	Sawn timber (a)					Other	Total
	Conifer			Conifer	Non-conifer		
	Douglas fir	Redwood and western cedar	Other				
	- '000 sup ft -			- \$'000 f.o.b. -			
Country of origin -							
Canada	106,675	25,126	13,494	16,251	27	..	16,278
Malaysia	..	..	1,242	172	7,964	2,924	11,060
New Zealand	19,904	..	32,573	4,727	370	288	5,385
Papua and New Guinea	..	..	5,409	941	237	140	1,318
United States of America	68,553	4,939	2,519	9,493	225	3	9,721
Other	..	..	4,493	539	1,884	1,400	3,823
Importing State -							
New South Wales	115,108	16,335	42,331	19,243	4,901	2,151	26,295
Victoria	38,470	9,793	5,289	6,162	1,880	885	8,927
Queensland	3,077	310	8,838	1,711	600	774	3,085
South Australia	35,806	3,559	3,185	4,638	1,441	129	6,208
Western Australia	2,655	69	54	364	1,477	813	2,654
Tasmania	17	..	31	5	28	..	33
Northern Territory	..	..	..	..	380	3	383
<b>Total</b>	195,132	30,065	59,729	32,123	10,707	4,755	47,585

(a) Wood, shaped or simply worked, timber, sawn lengthwise, sliced or peeled, but not further prepared, of a thickness exceeding 5 mm.

TABLE 22. - IMPORTS OF DOUGLAS FIR, REDWOOD AND WESTERN CEDAR SAWN TIMBER (a)

	Quantity ('000 sup ft)			Value (\$'000 f.o.b.)		
	1966-67	1967-68	1968-69	1966-67	1967-68	1968-69
<b>DOUGLAS FIR</b>						
Country of origin -						
Canada	98,173	87,841	106,675	8,471	7,593	11,519
Malaysia	30	..	..	2	..	..
New Zealand	2,253	8,851	19,904	215	942	2,188
United States of America	76,727	74,624	68,553	7,678	7,568	8,078
Importing State -						
New South Wales	101,599	99,645	115,108	9,622	9,573	12,875
Victoria	34,387	29,467	36,470	3,223	2,833	4,363
Queensland	1,839	2,089	3,077	283	273	429
South Australia	37,282	38,606	35,806	3,008	3,221	3,772
Western Australia	1,724	1,357	2,655	170	177	344
Tasmania	233	84	17	39	14	2
Northern Territory	119	67	..	21	12	..
<u>Total</u>	177,183	171,316	195,132	16,366	16,104	21,785
<b>REDWOOD AND WESTERN CEDAR</b>						
Country of Origin -						
Canada	19,663	23,219	25,126	2,201	2,888	3,462
New Zealand	34	13	..	4	2	..
United States of America	2,717	5,674	4,939	523	961	993
Importing State -						
New South Wales	10,997	15,458	16,335	1,417	2,141	2,556
Victoria	7,720	8,693	9,793	867	1,105	1,331
Queensland	345	481	310	53	77	56
South Australia	3,340	4,260	3,559	389	526	502
Western Australia	..	12	69	..	2	10
Tasmania	13	..	..	2	..	..
<u>Total</u>	22,414	28,905	30,065	2,728	3,851	4,455

- (a) Wood shaped or simply worked, douglas fir, redwood and western cedar timber, sawn lengthwise, sliced or peeled, but not further prepared, of a thickness exceeding 5 mm.

**TABLE 23. - IMPORTS OF SELECTED ITEMS OF FOREST ORIGIN.  
OTHER THAN CRUDE WOOD, TIMBER AND CORK, AUSTRALIA**

		Quantity			Value		
		1966-67	1967-68	1968-69	1966-67	1967-68	1968-69
- \$'000 f.o.b. -							
Tanning extracts of vegetable origin	cwt	79,601	74,005	96,015	550	504	565
Wood and cork manufactures (except furniture) -							
Veneers, plywood boards, etc. -							
Wood sawn lengthwise, sliced or peeled, veneer sheets and sheets for plywood of a thickness not exceeding 5 mm	'000 sq ft	39,037	65,408	102,491	1,322	1,857	2,924
Plywood, blockboard, lamin-board inlaid wood and wood marquetry, etc.	"	59,559	74,598	70,335	4,228	5,223	4,796
Reconstituted wood in panels, sheets, etc.	"	1,254	880	1,420	69	60	71
Riven and sawn staves of wood	'000	10	4	27	12	5	19
Other (drawn wood, wood flour, woodwool, etc.)	"	-	-	-	726	632	770
Wood manufactures n.e.s. (Household utensils, domestic utensils, building carpentry, etc.)	"	-	-	-	2,725	3,722	4,417
Cork manufactures	"	-	-	-	1,188	1,431	1,372

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COMMONWEALTH BUREAU OF CENSUS AND STATISTICS  
CANBERRA, A.C.T. 2600      18 MARCH 1971

NOTE. Inquiries concerning these statistics may be made in Canberra by telephoning 49 0211 extension 391 or, in each State capital, by telephoning the office of the Bureau of Census and Statistics.