

**FORESTS
AND
FOREST PRODUCTS**

No. 3 1969-70



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

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STATISTICAL BULLETIN : FORESTS AND FOREST PRODUCTS

NO. 3 - 1969-70

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EXPLANATORY NOTES1. Introduction

This bulletin contains forestry statistics and statistics of overseas trade in forest products for 1969-70 and relevant manufacturing statistics 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 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 wood products and by-products in Section IV were derived from manufacturing censuses for 1968-69 and earlier years undertaken by the Deputy Commonwealth Statisticians in the several States. However, value data are not yet available for 1968-69.

Data relating to the wood-using industry (sawmills, pulpmills, etc.), also collected in the annual manufacturing census, appear in Section V and relate to 1967-68 and earlier years. 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 year ended 30 June, unless indicated otherwise.

4. Forest area statistics

Forested areas shown in Section I relate to areas administered by the State or Commonwealth authorities, to those reserved by government legislation, and to those controlled by private organisations. It is difficult to arrive at estimates of forest areas which represent a uniform appraisal throughout Australia. The figures therefore are not strictly comparable between the States and Territories.

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. Also, owing to a reappraisal of certain categories of forest areas by some of the States in 1969-70 in connection with information supplied for the 1970 World Forest Inventory conducted by the United Nations Food and Agriculture Organisation, figures for total forest area for New South Wales, Victoria, South Australia, Western Australia and the Northern Territory are not strictly comparable with those for previous years. For the same reason, 1969-70 figures for forest area under reservation for South Australia, Western Australia and the Northern Territory 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) = 1 ft x 1 ft x 1 in
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
— net applicable
n.e.s. not elsewhere specified
n.y.a. not yet available.

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 1970
('000 acres)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	A.C.T.	Aust.
CROWN LAND								
Exploitable -								
Broadleaved	10,960	5,229	9,470	104	5,032	2,620	25	33,439
Coniferous	1,880	111	120	189	65	23	34	2,422
Mixed wood	..	..	3,290	..	..	..	..	3,290
Total	12,840	5,340	12,880	293	5,097	2,643	58	39,152
Potentially exploitable -								
Broadleaved	1,000	2,554	1,000	..	..	2,110	30	6,694
Coniferous	..	2	..	..	..	17	..	19
Mixed wood	..	..	1,000	..	..	..	..	1,000
Total	1,000	2,556	2,000	..	..	2,127	30	7,713
Other forest areas	8,850	5,064	4,300	689	..	944	196	20,043
<u>Estimated total forest area</u>	22,690	12,960	19,180	982	5,097	5,715	284	(b)66,907
PRIVATE LAND (c)								
Exploitable -								
Broadleaved	9,355	90	4,000	..	37	1,114	..	14,596
Coniferous	345	125	..	57	4	8	..	539
Mixed wood	..	..	600	..	..	..	..	600
Total	9,700	215	4,600	57	41	1,121	..	15,734
Potentially exploitable -								
Broadleaved	..	592	..	..	..	435	..	1,027
Coniferous	..	..	..	10	..	9	..	19
Mixed wood	..	..	..	..	..	..	..	..
Total	..	592	..	10	..	444	..	1,046
Other forest areas	..	253	500	1,171	..	517	34	2,475
<u>Estimated total forest area</u>	9,700	1,060	5,100	1,238	41	2,082	34	(b)19,255
TOTAL								
Exploitable -								
Broadleaved	20,315	5,319	13,470	104	5,069	3,734	25	48,035
Coniferous	2,225	236	120	246	69	31	34	2,960
Mixed wood	..	..	3,890	..	..	..	..	3,890
Total	22,540	5,555	17,480	350	5,138	3,765	58	54,885
Potentially exploitable -								
Broadleaved	1,000	3,146	1,000	..	..	2,545	30	7,721
Coniferous	..	2	..	10	..	26	..	36
Mixed wood	..	..	1,000	..	..	..	..	1,000
Total	1,000	3,148	2,000	10	..	2,571	30	8,759
Other forest areas	8,850	5,317	4,800	1,860	..	1,461	229	22,518
<u>Estimated total forest area</u>	32,390	14,020	24,280	2,220	5,138	7,797	318	(d)93,703

(a) Not strictly comparable between States. See Section 4 of the explanatory notes.

(b) Excludes the Northern Territory for which details for crown and private land are not available. (c) Includes "communal" land owned by Local Government Authorities.

(d) Includes the Northern Territory for which only the estimated total forest area is available.

TABLE 2. - ESTIMATED FOREST AREAS (a) AUSTRALIA, 30 JUNE

('000 acres)

	1966	1967	1968	1969	1970
CROWN LAND					
Exploitable -					
Broadleaved	24,367	27,826	27,808	27,775	33,439
Coniferous	2,537	580	615	667	2,422
Mixed wood	5,955	9,117	10,117	9,117	3,290
Total	32,859	37,523	38,540	37,559	39,152
Potentially exploitable -					
Broadleaved	8,264	8,809	8,800	8,810	6,694
Coniferous	20	22	24	28	19
Mixed wood	366	1,366	1,366	1,366	1,000
Total	8,650	10,197	10,191	10,204	7,713
Other forest areas	23,096	23,293	23,285	21,726	20,043
Estimated total forest area	64,605	71,013	72,016	69,488	(b)66,907
PRIVATE LAND (c)					
Exploitable -					
Broadleaved	7,251	9,638	9,633	9,622	14,596
Coniferous	486	181	190	200	539
Mixed wood	1,845	2,445	2,443	2,443	600
Total	9,582	12,265	12,266	12,264	15,734
Potentially exploitable -					
Broadleaved	1,603	1,603	1,603	1,607	1,027
Coniferous	70	72	72	73	19
Mixed wood	37	37	37	37	..
Total	1,710	1,712	1,712	1,717	1,046
Other forest areas	5,365	2,665	2,665	2,665	2,475
Estimated total forest area	16,658	16,642	16,643	16,647	(b)19,255
TOTAL					
Exploitable -					
Broadleaved	31,618	37,464	37,442	37,396	48,035
Coniferous	3,023	761	804	867	2,960
Mixed wood	7,800	11,562	12,560	11,560	3,890
Total	42,441	49,788	50,806	49,823	54,885
Potentially exploitable -					
Broadleaved	9,867	10,413	10,404	10,417	7,721
Coniferous	90	93	96	101	38
Mixed wood	403	1,403	1,403	1,403	1,000
Total	10,360	11,909	11,903	11,921	8,759
Other forest areas	28,462	25,958	25,950	24,391	22,518
Estimated total forest area	81,263	87,655	88,659	86,136	(d)93,703

(a) Not strictly comparable between years. See Section 4 of the explanatory notes.

(b) Excludes the Northern Territory for which details for crown and private land are not available.

(c) Includes "communal" land owned by Local Government Authorities.

(d) Includes the Northern Territory for which only the estimated total forest area is available.

TABLE 3. - FOREST RESERVATIONS AND PLANTATIONS, 1970

	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)	7,069	5,657	7,500	293	4,461	2,783	76	..	27,837
Land reserved for timber supply (c)	1,033	150	1,699	1	273	240	(d)767	..	4,163
Other forested reserves (e)	1,519	507	2,463	73	..	2,734	474	131	7,900
<u>Total forest area under reservation</u>	9,621	6,313	11,661	367	4,734	5,758	1,316	131	39,901
	- acres -								
Net area (f) of plantations, 31 March - Crown land -									
Coniferous	178,421	100,564	157,766	161,624	65,294	40,512	3,110	30,745	738,036
Broadleaved	21,054	10,114	4,948	3,350	19,111	934	130	..	59,641
Private land -									
Coniferous	30,000	113,966	39,083	39,684	3,621	16,094	50	..	242,498
Broadleaved	11,200	8,296	n.a.	285	..	..	..	..	(g)19,781
<u>Total net area of plantations</u>	240,675	232,940	201,797	204,943	88,026	57,540	3,290	30,745	1,059,956

(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) Forest areas over which reservation is being sought. Excludes 6,224,500 acres of areas within Aboriginal reserves to be set aside for forestry purposes. (e) All other forested reserves under Government or semi-governmental control e.g. flora and fauna reserves, scenic reserves, State and National Parks. (f) Excludes fire-breaks and other areas not actually forested. (g) Incomplete; see individual States.

TABLE 4. - FOREST RESERVATIONS AND PLANTATIONS, AUSTRALIA

	1966	1967	1968	1969	1970
	- '000 acres -				
Forest area under reservation on Crown land, 30 June (a) -					
State forests (b)	26,326	26,668	27,033	} 34,657 {	27,837
Land reserved for timber supply (c)	6,158	5,975	5,883		4,163
Other forested reserves (d)	7,874	9,050	9,094		7,779	7,900
<u>Total forest area under reservation</u>	40,359	41,693	42,009	42,436	39,901
	- acres -				
Net area (e) of plantations, 31 March -					
Crown land -					
Coniferous	528,967	564,995	611,374	668,020	738,036
Broadleaved	35,941	37,223	38,416	55,499	59,641
Private land -					
Coniferous	173,642	195,320	208,693	232,023	242,498
Broadleaved (f)	5,640	4,926	11,068	18,255	19,781
<u>Total net area of plantations</u>	744,190	802,454	869,551	973,797	1,059,956

(a) Figures for 1969-70 are not strictly comparable with those for previous years owing to the reappraisal of forest areas mentioned in Section 4 of the explanatory notes. (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 Park. (e) Excludes firebreaks and other areas not actually forested. (f) Incomplete; see footnote (g), Table 3.

SECTION II. EMPLOYMENT IN FORESTRY DEPARTMENTS

TABLE 5. - EMPLOYMENT IN FORESTRY DEPARTMENTS, 30 JUNE 1970

(Number)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T. (a)	Aust.
Professional staff -									
Foresters	225	223	87	37	51	36	8	9	676
Other	91	23	88	40	23	10	..	..	275
Non-professional field staff	297	240	98	28	246	119	22	2	1,052
Clerical staff	291	261	236	112	46	99	15	8	1,068
Extraction (i.e. felling and carting, etc.)	1,417	..	122	..	35	..	10	..	6,056
Milling (sawing, peeling, slicing or pulping)		..	..	558	37	..	12	..	
Labour (silvicultural, forest workers, etc.)		897	1,656	258	526	357	90	81	
<u>Total</u>	2,321	1,644	2,287	1,033	964	621	157	100	9,127

(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 -				
	1966	1967	1968	1969	1970
Professional staff -					
Foresters	611	633	658	676	676
Others	226	229	252	252	275
Non-professional field staff	970	942	962	1,007	1,052
Clerical staff	1,042	1,056	1,062	1,106	1,068
Extraction (i.e. felling and carting, etc.), milling (sawing, peeling, slicing or pulping) and labour (silvicultural, forest workers, etc.)	6,320	6,073	7,078	6,235	6,056
<u>Total</u>	9,169	8,933	10,012	9,276	9,127

SECTION III. FOREST PRODUCTS

TABLE 7. - QUANTITY OF FOREST PRODUCTS, 1969-70

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T. (a)	A.C.T.	Aust. (b)	
LOGS FOR SAWING, PEELING, SLICING OR PULPING										
Broadleaved - Eucalypt and re- lated species	'000 cu ft	57,860	72,199	19,865	751	42,877	61,886	14	..	255,452
Rain forest species (c)	"	4,422	..	8,910	..	..	..	1	..	13,334
Coniferous - Indigenous forest	"									
"pines" -	"									
Cypress	"	5,838	..	6,255	..	..	..	38	..	12,131
Other	"	460	..	2,267	..	..	524	..	..	3,251
Plantation grown "pines"	"	11,365	19,553	5,575	28,841	2,924	2,300	..	1,760	72,317
Total logs	"	79,945	91,752	42,872	29,592	45,801	64,709	53	1,760	356,485
HEWN AND OTHER TIMBER (NOT INCLUDED ABOVE)										
Sleepers, hewn	'000 cu ft	2,604	(a)1,157	1,323		..	(a)17	..	..	5,101
Transoms, crossing and junk	"	381	18	115		..	..	..	..	899
Girders	"	134		252		..	..	..	..
Bridge timbers	"	..	(a)10	..		(a)	(a) 2	..	..	12
Mining timbers	"	5,950	(a)10	270	n.a.	350	(a)15	..	..	6,595
Fence posts and rails	"	669	(a)957	736		261	(a)125	17	53	3,818
Poles and piles	"	2,268	(a)969	549		(e)1,521	(a)195	7	3	5,512
Timber used for tanning extract	"	..	..	..		(f)	..	..	..	(f)
Miscellaneous timber	"	(a)16	(a)82	..	916	(e)3,710	(a)24	..	..	4,748
Firewood (h)										
Weight	'000 tons	171	246	109	440	592	389	3	..	1,950
Estimated volume	'000 cu ft	5,560	9,854	4,909	14,656	19,736	19,707	204	..	74,626
OTHER FOREST PRODUCTS										
Charcoal	tons	(a)802	(a)779	..	..	..	..	..	..	1,581
Tanning bark (long bark)	"	450	n.y.a.	..	..	..	(f)	..	..	450
Essential oils	cwt	2,098	(a)810	..	31	(f)	..	..	..	2,939
Sandalwood and substitutes	"	..	..	..	..	14,986	..	..	..	14,986
Gums and resins	"	..	..	..	7,020	17	..	..	..	7,037
Other (value)	\$'000	157	(a) 7	362	29	4	..	..	..	560

(a) Incomplete; no details available for production from private land. (b) Incomplete; see individual States for relevant items. (c) Brushwoods and Scrubwoods. (d) Included in poles and piles. (e) Includes bridge timbers. (f) Not available for publication. (g) Includes brushwood for charcoal production. (h) Excludes mill waste used as firewood.

TABLE 8. - QUANTITY OF FOREST PRODUCTS, AUSTRALIA (a)

	1965-66	1966-67	1967-68	1968-69	1969-70	
LOGS FOR SAWING, PEELING, SLICING OR PULPING						
Broadleaved - Eucalypt and related species	'000 cu ft	252,587	249,985	253,723	254,717	255,452
Rain forest species (b) "	"	14,027	12,131	12,755	13,272	13,334
Coniferous - Indigenous forest "pines" - Cypress	" "	12,487	11,402	12,179	11,374	12,131
Other	" "	3,706	3,568	3,479	3,696	3,251
Plantation grown "pines"	" "	59,894	61,992	59,798	66,152	72,317
Total logs	" "	342,701	339,078	341,930	349,211	356,485
HEWN AND OTHER TIMBER (NOT INCLUDED ABOVE)						
Sleepers, hewn	'000 cu ft	7,492	6,314	6,872	5,405	5,101
Transoms, crossing and junk	" "	815	958	969	915	512
Girders	" "					386
Bridge timbers	" "		18	18	15	12
Mining timbers	" "	6,317	5,838	4,975	6,710	6,595
Fence posts and rails	" "	4,817	4,591	3,970	3,006	3,818
Poles and piles	" "	6,320	4,896	5,530	6,725	5,512
Timber used for tanning extract	" "	(c)	(c)	(c)	(c)	(c)
Miscellaneous timber	" "	4,740	4,912	4,727	4,546	4,748
Firewood (d) - Weight	'000 tons	2,301	2,143	1,914	1,847	1,950
Estimated volume	'000 cu ft	89,373	83,542	73,877	74,208	74,626
OTHER FOREST PRODUCTS						
Charcoal	tons	601	960	1,061	783	1,581
Tanning bark (long bark)	"	838	2,206	1,811	(e)1,355	(e)(f)450
Essential oils	cwt	2,725	3,074	2,974	2,705	2,939
Sandalwood and substitutes	"	20,800	14,820	15,500	12,560	14,986
Gums and resins	"	6,423	7,612	6,610	7,210	7,037
Other (value)	\$'000	440	449	508	479	560

(a) Incomplete; see footnote (b), Table 7. (b) Brushwoods and Scrubwoods. (c) Not available for publication. (d) Excludes mill waste used as firewood. (e) Excludes Tasmanian details which are not available for publication. (f) Also excludes details for Victoria which are not yet available.

TABLE 9. - VALUE OF FOREST PRODUCTS, 1969-70

(\$'000)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T. (a)	A.C.T.	Aust.
Logs for sawing, peeling, slicing or pulping(b)	24,395	24,406	14,994	7,442	9,044	15,859	16	447	96,602
Hewn and other timber (not included above)	12,947	3,768	2,806	3,027	(c)3,988	(c)3,039	32	18	29,623
Other forest products	335	80	362	62	(e) 5	..	..	..	843
TOTAL	37,677	28,254	18,162	10,530	(f)13,632	18,898	48	465	127,664

For footnotes see Table 10 below.

TABLE 10. - VALUE OF FOREST PRODUCTS, AUSTRALIA

(\$'000)

	1965-66	1966-67	1967-68	1968-69	1969-70
Logs for sawing, peeling slicing or pulping	87,532	88,169	89,552	(b)90,340	(b)96,602
Hewn and other timber (not included above) (c)	31,166	28,112	27,702	(d)28,070	(d)29,623
Other forest products (e)	782	801	851	774	843
TOTAL (f)	120,306	117,746	118,769	119,717	127,664

(a) Not comparable with previous years due to changes in method of valuation.

(b) Included in this category are amounts attributable to sawmillers who carry out their own logging activities as a secondary part of their operations. As such, the values are attributable to the sawmilling industry which is part of manufacturing industry. However, the amount has been included in this bulletin so that the overall value of forest products might be shown. The amount in question is estimated to be \$26.1 million for 1968-69, or 28.9% of the Australian total of \$90.3 million; and \$29.5 million in 1969-70, or 27.0% of the total of \$96.6 million. (c) Excludes value of timber used for tanning extract in Western Australia, details of which are not available for publication. (d) Includes an estimate of value of miscellaneous timber taken from private land and value of "other forest products" for Tasmania. (e) Excludes value of sandalwood and substitutes for Western Australia, details of which are not available for publication. (f) Includes value of timber used for tanning extract and sandalwood and substitutes in Western Australia.

SECTION IV. - PRODUCTION OF SELECTED PRODUCTS OF FOREST ORIGIN

TABLE 11. - SELECTED MANUFACTURED COMMODITIES, AUSTRALIA (a)

Articles produced	Unit of quantity	1966-67		1967-68		1968-69		
		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	1,081,293	}	(1,095,667)	}	(c) 1,055,878	}	
From brushwoods and scrubwoods	"	62,521		(69,709)		(c) 44,686		
From softwoods -								
Natural forest "pines" -				(b)		(b)		
Cypress	"	62,283		62,014		57,534		
Other	"	20,042		19,905		20,394		
Plantation grown "pines"	"	235,266		225,764		205,048		
TOTAL LOCAL TIMBER	"	1,461,405		(1,473,059)		(c) 1,383,540		
Overseas grown -								
Hardwood	"	} 25,771		(b)		32,379		(b)	13,190	(d)
Softwoods	"							
Kiln-dried during year	"	296,672	(b)	301,465	(b)	260,101		
Sleepers	"	81,297	7,036	78,585	6,831	66,522		
Palings and pickets	"	18,894	1,508	23,348	2,634	23,643		
Shingles	"	(e)	(e)	(e)	(e)	(e)		
Dressed timber -								
Floorboards - Australian timber	"	154,286	27,140	151,130	26,053	164,991		
Overseas timber	"	324	83	463	138	579		
Weatherboards - Australian timber	"	19,025	3,407	18,799	3,449	14,564		
Overseas timber	"	1,857	463	2,175	608	1,917		
Other dressed timber, n.e.i.	"	214,125	51,127	233,810	54,269	231,368		

Foot footnotes see page 14.

TABLE 11. - SELECTED MANUFACTURED COMMODITIES, AUSTRALIA (a) - continued

	Unit of quantity	1966-67		1967-68		1968-69	
		Quantity	Value (\$'000)	Quantity	Value (\$'000)	Quantity	Value (\$'000)
VENEERS, PLYWOOD AND CORESTOCK							
Veneers, plywood and corestock -							
Sliced veneers	'000 sq ft	51,712	(b)	65,360	(b)	58,793	(d)
Rotary veneers (1/16" basis)	"	749,221	(b)	828,812	(b)	709,637	
Plywood - Commercial (3/16" basis)	"	119,766		128,673	10,801	123,823	
Waterproof " "	"	55,752	6,703	74,326	8,667	80,580	
Case " "	"	2,897	170	2,665	171	2,743	
Sliced fancy " "	"	22,036	4,040	24,354	4,715	21,435	
Corestock (incl. solid core doors)	"	6,464	2,857	4,649	2,255	4,411	
WOOD FABRICATED MATERIALS, ETC.							
Lignocellulose boards and sheets -							
Original manufacture -							(d)
Hardboard	'000 sq ft	(e)	(e)	(e)	(e)	(e)	
Softboard	"	25,768	(b)	25,088	(b)	26,124	
Strawboard (1/2" thickness or more)	"						
Particle board - Acoustic composition	"	1,871	368	1,757	341	134,516	
Other	"	90,264	14,421	113,822	18,087		
Processed subsequent to original manufacture -							
Painted, coloured or coated -							
Hardboard	"	9,907	2,041	(f)	(f)	(g)	
Other boards	"	12,793	1,598				
Primed, undercoated -							
All types	"	46,672	(b)				
Acoustic tiles, panels and boards -							
Softboard	"	2,521	653	2,904	934	3,013	
Particle board	"						
Strawboard (1/2" thickness or more)	"						
Cork board	"	..	..	..	..	..
Wood handles -							
Axe	gross	4,557	356	4,310	369	3,967	
Broom and mop	"	29,396	439	30,941	445	35,142	
Tool and Other	"	(g)	1,576	(g)	1,591	n.a.	

For footnotes, see page 14.

TABLE 11. - SELECTED MANUFACTURED COMMODITIES, AUSTRALIA (a) - continued

Articles produced	Unit of quantity	1966-67		1967-68		1968-69	
		Quantity	Value (\$'000)	Quantity	Value (\$'000)	Quantity	Value (\$'000)
WOOD FABRICATED MATERIALS, ETC. - continued							
Wood Wool	..	(h)	165	(h)	177	n.a.	} (d)
Staves	..	(h)	10	(h)	24	n.a.	
Clothes pegs (wooden)	gross	809,145	466	834,495	497	896,111	
Containers - principally of wood							
Boxes and cases -							
Cases, fruit, vegetables etc. (inc. shooks)	'000	27,742	8,555	24,911	8,097	24,277	
Other shooks	"	(h)	1,797	(h)	1,910	n.a.	
All other boxes, cases and crates	"	(h)	12,439	(h)	12,948	n.a.	
Casks and barrels (plywood)	number	27,959	680	27,040	529	19,838	
PAPER AND PAPER PRODUCTS							
Newsprint	tons	97,255	13,365	92,648	12,688	123,935	} (d)
Blotting	"	508	149	569	161	521	
Duplicating	"	8,291	3,467	10,212	3,876	10,898	
Printing	"	60,146	19,402	46,838	14,635	44,499	
Writing (incl. cartridge)	"	54,846	16,302	65,942	21,317	76,514	
Wrapping -							
Kraft	"	} 198,503	45,597	183,591	43,344	230,444	
Other	"						
Paper felts	"	1,905	415	1,164	243	1,356	
Paper Boards	"	329,496	53,726	334,660	57,093	342,403	

(a) Excludes Australian Capital Territory and Northern Territory prior to 1968-69. (b) Quantity only available.
(c) Excludes estimated quantity of timber recovered from logs peeled or sliced for veneers. (d) Value data for 1968-69 not yet available. (e) Not available for publication. (f) Not collected. (g) Value only collected.
(h) Value only available.

SECTION V. WOOD USING INDUSTRIES - SELECTED FACTORY STATISTICS

TABLE 12. - 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)	7,713	5,645	5,055	(b)	3,201	2,745	..	(b)	26,498
Males	392	293	302		191	56	..		1,415
Females									
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	42,546		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 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 13. - 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 14. - PRINCIPAL MATERIALS USED IN SAWMILLS AND OTHER
SPECIFIED WOOD-WORKING ESTABLISHMENTS, AUSTRALIA
('000 super feet gross Hoppus)

	1965-66	1966-67	1967-68
Logs sawn - Australian grown -			
Forest hardwoods	2,224,477	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"	399,975	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 15. - 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)	(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 16. - 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	29,011	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 17. - 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 18. - EXPORTS OF CRUDE WOOD, TIMBER AND CORK, AUSTRALIA

	Quantity			Value		
	1967-68	1968-69	1969-70	1967-68	1968-69	1969-70
				- \$'000 f.o.b. -		
Australian produce -						
Wood Waste and charcoal (incl. shell and nut charcoal)	..	..	..	2	86	23
Wood in the rough or roughly squared	..	..	..	636	286	476
Wood, shaped or simply worked -						
Railway or tramway sleepers '000 sup ft	5,621	3,312	8,214	863	522	1,279
Timber, sawn lengthwise sliced or peeled, but not further prepared, of a thickness exceeding 5 mm -						
Conifer "	574	143	169	99	37	46
Non-conifer - Jarrah "	3,836	6,723	5,672	643	1,169	940
Other "	5,978	6,281	6,546	991	1,123	1,248
Timber (incl. blocks, strips, and friezes for parquet or wood block flooring, not assembled), planed, tongued etc. -						
Conifer "	808	540	562	224	146	130
Non-conifer "	588	624	453	146	114	121
Cork, raw and waste cwt	..	101	40	..	5	1
Total Australian produce		-		3,604	3,488	4,265
Re-exports		-		149	121	132
<u>Total</u>		-		3,753	3,609	4,397

TABLE 19. - EXPORTS OF CRUDE WOOD, TIMBER AND CORK, 1969-70

	Non-conifer sawn timber (a)					All other exports of crude wood, timber and cork	Total
	Quantity		Value				
	Jarrah	Other	Jarrah	Other	Value		
	- '000 sup ft -		- \$'000 f.o.b. -				
Country of consignment -							
Germany, Fed. Rep. of	12	435	2	76	78	2	80
Gilbert & Ellice Is.	..	51	..	14	14	63	77
Japan	..	60	..	30	30	194	224
Kenya	834	..	109	..	109	108	217
New Zealand	409	3,830	59	620	679	303	982
Pakistan	..	..	..	..	..	81	81
South Africa	318	588	49	91	140	18	158
Tanzania	111	..	14	..	14	102	116
United Kingdom	3,717	218	646	57	703	941	1,644
United States of America	..	476	..	159	159	62	221
Other	271	948	61	214	275	322	597
State of final shipment -							
New South Wales	16	2,957	4	506	510	478	988
Victoria	105	124	23	30	53	42	95
Queensland	..	434	..	138	138	283	421
Western Australia	5,551	2,210	913	332	1,245	1,285	2,530
Tasmania	..	814	..	238	238	108	346
Northern Territory	..	67	..	17	17	..	17
<u>Total</u>	5,672	6,606	940	1,261	2,201	2,196	4,397
Australian produce	5,672	6,546	940	1,248	2,188	2,077	4,265
Re-exports	..	60	..	13	13	119	132

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

TABLE 20. - EXPORTS OF NON-CONIFER SAWN TIMBER (a)

	Quantity ('000 sup ft)			Value (\$'000 f.o.b.)		
	1967-68	1968-69	1969-70	1967-68	1968-69	1969-70
JARRAH (b)						
Country of consignment -						
Kenya	1,005	1,609	834	145	233	109
New Zealand	461	529	409	65	74	59
United Kingdom	1,712	3,914	3,717	328	756	646
Other	708	671	712	105	107	126
State of final shipment -						
New South Wales	..	2	16	..	1	4
Victoria	4	17	105	1	3	23
Western Australia	3,882	6,704	5,551	642	1,165	913
<u>Total</u>	3,886	6,723	5,672	643	1,169	940
OTHER NON-CONIFER						
Country of consignment -						
Germany, Fed. Rep. of	316	436	435	49	67	76
Netherlands	216	230	97	37	38	16
New Zealand	3,243	3,696	3,830	488	587	620
South Africa	919	656	588	139	98	91
United Kingdom	150	232	218	40	61	57
United States of America	436	449	476	100	150	159
Other	778	605	962	154	128	242
State of final shipment -						
New South Wales	2,496	3,047	2,957	417	515	506
Victoria	219	125	124	48	32	30
Queensland	316	339	434	78	93	138
South Australia	2	..	..	3	..	..
Western Australia	2,707	2,299	2,210	399	332	332
Tasmania	301	487	814	61	155	238
Northern Territory	13	8	67	4	2	17
<u>Total</u>	6,057	6,304	6,606	1,009	1,129	1,261
Australian produce	5,978	6,281	6,546	991	1,123	1,248
Re-exports	79	23	60	18	7	13

(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 21. - EXPORTS OF SELECTED ITEMS OF FOREST ORIGIN OTHER
 THAN CRUDE WOOD, TIMBER AND CORK, (a) AUSTRALIA

	Quantity			Value		
	1967-68	1968-69	1969-70	1967-68	1968-69	1969-70
				- \$'000 f.o.b. -		
Plants and parts of plants used in drying and tanning cwt	1,920	385	216	5	3	1
Natural gums, resins, gum- resins, balsam and lacs "	8,160	7,569	7,839	66	60	61
Eucalyptus oil '000 lb	355	205	304	269	149	180
Wood and cork manufactures (except furniture) - Veneers, plywood boards, etc. -						
Wood sawn lengthwise, sliced or peeled, not further prepared, veneer sheets and sheets for plywood, of a thickness '000 not exceeding 5 mm sq ft	3,584	3,604	2,228	151	162	383
Plywood, blockboard, laminated wood products, inlaid wood and marquetry, cellular wood panels -						
Plywood "	1,715	1,710	2,090	316	319	400
Other "	..	1,928	633	100	162	57
Improved wood	..	..	..	3	1	1
Reconstituted wood, in panels, sheets or strips '000 sq ft	1,106	1,262	1,844	147	191	311
Wooden beadings and mouldings	..	..	..	61	176	143
Wood, simply shaped or worked n.e.s.	..	..	..	8	24	11
Wood manufactures n.e.s.	..	..	..	715	1,242	621
Cork manufactures n.e.s.	..	..	..	83	78	118

(a) Excludes re-exports.

TABLE 22. - IMPORTS OF CRUDE WOOD, TIMBER AND CORK, AUSTRALIA

	Quantity			Value		
	1967-68	1968-69	1969-70	1967-68	1968-69	1969-70
	- '000 sup ft -			- \$'000 f.o.b. -		
Wood waste and charcoal	..	..	..	10	16	18
Wood in the rough or roughly squared	53,166	49,033	54,871	3,095	3,322	3,671
Wood shaped or simply worked -						
Timber, sawn lengthwise, sliced or peeled, but not further prepared, of a thickness exceeding 5 mm -						
Conifer -						
Douglas fir	171,316	195,132	165,323	16,104	21,785	21,479
Hemlock and balsam	11,200	12,562	19,733	865	1,175	1,791
Radiata pine	25,016	29,474	28,384	1,868	2,108	2,214
Redwood	} 28,905	} 30,065	2,225	} 3,351	} 4,455	487
Western red cedar			31,855			5,963
Other	18,564	17,693	15,570	2,443	2,600	2,609
Total conifer	255,001	284,926	263,090	25,131	32,123	34,543
Non-conifer	..	..	..	11,278	10,707	13,089
Timber (including blocks, strips, etc.) planed, tongued, grooved, rebated, etc. but not further manufactured -						
Conifer	4,553	5,028	4,470	677	802	844
Non-conifer	1,763	1,756	3,125	312	333	618
Cork, raw and waste	..	..	..	404	282	294
<u>TOTAL</u>	..	..	..	41,506	47,585	53,077

TABLE 23. - IMPORTS OF CRUDE WOOD, TIMBER AND CORK, 1969-70

	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	83,641	28,687	20,640	17,122	34	..	17,156
Malaysia	..	17	995	157	9,750	3,136	13,043
New Zealand	20,513	..	31,215	4,948	376	443	5,767
Philippines	..	..	..	..	1,216	389	1,605
United States of America	61,169	5,376	2,080	10,856	207	23	11,086
Other	..	..	8,757	1,460	1,506	1,454	4,420
Importing State -							
New South Wales	97,844	19,344	45,105	21,324	5,656	2,543	29,523
Victoria	34,893	10,036	7,049	6,779	1,734	934	9,447
Queensland	1,976	441	6,211	1,467	671	887	3,025
South Australia	29,338	4,197	5,154	4,683	2,494	212	7,389
Western Australia	1,272	62	155	288	1,936	853	3,077
Tasmania	..	..	13	2	50	13	65
Northern Territory	..	..	..	..	548	3	551
<u>Total</u>	165,323	34,080	63,687	34,543	13,089	5,445	53,077

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

TABLE 24. - IMPORTS OF DOUGLAS FIR, REDWOOD AND WESTERN CEDAR SAWN TIMBER (a)

	Quantity ('000 sup ft)			Value (\$'000 f.o.b.)		
	1967-68	1968-69	1969-70	1967-68	1968-69	1969-70
DOUGLAS FIR						
Country of origin -						
Canada	87,841	106,675	83,641	7,593	11,519	10,051
New Zealand	8,851	19,904	20,513	942	2,188	2,366
United States of America	74,624	68,553	61,169	7,568	8,078	9,063
Importing State -						
New South Wales	99,645	115,108	97,844	9,573	12,875	13,165
Victoria	29,467	38,470	34,893	2,833	4,363	4,315
Queensland	2,089	3,077	1,976	273	429	364
South Australia	38,606	35,806	29,338	3,221	3,772	3,400
Western Australia	1,357	2,655	1,272	177	344	235
Tasmania	84	17	..	14	2	..
Northern Territory	67	..	..	12	..	..
<u>Total</u>	171,316	195,132	165,323	16,104	21,785	21,479
REDWOOD AND WESTERN RED CEDAR						
Country of Origin -						
Canada	23,219	25,126	28,687	2,888	3,462	5,171
Malaysia	..	..	17	..	..	3
New Zealand	13	..	..	2	..	..
United States of America	5,674	4,939	5,376	961	993	1,276
Importing State -						
New South Wales	15,458	16,335	19,344	2,141	2,556	3,814
Victoria	8,693	9,793	10,036	1,105	1,331	1,765
Queensland	481	310	441	77	56	99
South Australia	4,260	3,559	4,197	526	502	755
Western Australia	12	69	62	2	10	17
Tasmania	..	..	..	..	..	..
<u>Total</u>	28,905	30,065	34,080	3,851	4,455	6,450

- (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 25. - IMPORTS OF SELECTED ITEMS OF FOREST ORIGIN,
OTHER THAN CRUDE WOOD, TIMBER AND CORK, AUSTRALIA

		Quantity			Value		
		1967-68	1968-69	1969-70	1967-68	1968-69	1969-70
					- \$'000 f.o.b. -		
Tanning extracts of vegetable origin	cwt	74,005	96,015	63,524	504	565	570
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	65,408	102,491	108,795	1,857	2,924	2,902
Plywood, blockboard, lamin-board inlaid wood and wood marquetry, etc.	"	74,598	70,335	83,323	5,223	4,796	5,351
Reconstituted wood in panels, sheets, etc.	"	880	1,420	635	60	71	55
Riven and sawn staves of wood	'000	4	27	26	5	19	22
Other (drawn wood, wood flour, woodwool, etc.)		-	-	-	632	770	692
Wood manufactures n.e.s. (Household utensils, domestic utensils, building carpentry, etc.)		-	-	-	3,722	4,417	4,966
Cork manufactures		-	-	-	1,431	1,372	1,398

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CANBERRA, A.C.T. 2600

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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.