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**PRODUCTION OF BUILDING  
MATERIALS AND FITTINGS, AUSTRALIA  
APRIL 1989**

**IAN CASTLES**  
Australian Statistician

AUSTRALIAN BUREAU OF STATISTICS

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**CONTENTS***Table**Page*

1.	Bricks	1
2.	Terracotta and concrete roofing tiles	1
3.	Portland cement and concrete products	2
4.	Ready mixed concrete	2
5.	Lignocellulose and decorative surfaced boards and sheets	3
6.	Timber, insulation and plumbing fixtures	3
7.	Cooking stoves, ovens and ranges	4
8.	Complete hot water systems, space heaters and solar collectors	4
..	Explanatory Notes	5

TABLE 1. BRICKS  
(million)

Period	Clay							Concrete standard size (475 21)
	For structural purposes							
	N.S.W. and A.C.T.	Vic.	Old (471 91 93)	Other States	Australia		For other purposes (incl. pavers) (471 98)	
					Original	Seasonally adjusted(a)		
1985-86	745	447	251	540	1,983	..	117.8	54.7
1986-87	705	447	214	482	1,847	..	154.5	50.0
1987-88	713	427	262	464	1,867	..	165.1	66.5
1988—								
February	54.0	34.8	21.9	36.9	148	151	11.8	5.4
March	71.4	43.5	27.8	41.1	184	161	15.0	9.0
April	55.9	30.9	22.8	38.5	148	153	13.5	5.0
May	72.8	44.1	26.6	45.6	189	175	10.8	6.2
June	66.2	37.4	26.4	42.8	173	161	12.4	5.9
July	65.1	37.5	24.5	45.4	172	166	10.7	7.8
August	73.7	42.8	30.3	49.3	196	180	15.3	8.9
September	66.7	37.3	28.4	45.2	178	165	15.0	14.4
October	64.6	36.8	25.7	46.8	174	172	14.0	12.9
November	72.4	42.3	26.0	46.2	187	178	17.0	16.4
December	59.0	30.3	28.1	43.6	161	187	16.1	10.6
1989—								
January	55.2	25.0	28.4	44.8	153	229	17.0	9.5
February	63.5	35.7	29.5	43.9	173	183	17.0	14.7
March	63.6	33.1	30.6	49.7	177	163	13.9	17.9
April	63.7	36.4	28.2	49.7	178	182	12.3	13.7
1987-88 : July to Apr.	574	346	210	376	1,506	..	142	54.4
1988-89 : July to Apr.	648	357	280	465	1,749	..	148	126.8

(a) See paragraph 6 of Explanatory Notes.

TABLE 2. TERRACOTTA AND CONCRETE ROOFING TILES  
('000 square metres)

Period	Flat surface measure (a)					
	N.S.W. and A.C.T.	Vic.	W.A. (472 15, 475 32)	Other States	Australia	
					Terracotta (472 15)	Concrete (475 32)
1985-86	7,036	6,097	3,386	4,710	3,222	18,008
1986-87	5,685	5,263	2,969	3,756	3,285	14,388
1987-88	6,394	5,234	3,369	4,744	3,399	16,342
1988—						
February	657	431	280	476	265	1,579
March	712	510	318	517	331	1,725
April	521	416	253	401	287	1,305
May	723	548	318	477	343	1,722
June	639	480	217	484	286	1,535
July	610	472	228	481	303	1,489
August	730	517	371	518	342	1,795
September	632	519	369	612	294	1,838
October	603	525	390	604	344	1,779
November	763	594	386	703	339	2,106
December	579	404	350	511	291	1,552
1989—						
January	332	250	324	299	168	1,037
February	659	511	395	652	272	1,945
March	637	462	416	630	321	1,824
April	633	509	399	596	326	1,811
1987-88 : July to Apr.	5,032	4,206	2,833	3,783	2,770	13,085
1988-89 : July to Apr.	6,177	4,763	3,630	5,605	2,999	17,176

(a) Refers to the theoretical effective coverage of the tiles if laid in an interlocking manner on a flat surface. For each type of tile, coverage is calculated using standard side lap and minimum head lap, without any provision for wastage.

TABLE 3. PORTLAND CEMENT AND CONCRETE PRODUCTS

Period	Portland Cement		Concrete blocks(b) (475 27)	Concrete box culverts (475 60)
	Original (474 02)	Seasonally adjusted (a)		
	'000 tonnes			
1985-86	6,106	..	95.8	130,419
1986-87	5,920	..	89.1	102,877
1987-88	6,150	..	97.5	93,000
1988—				
February	509	507	8.7	8,375
March	545	519	8.5	9,006
April	499	514	7.2	5,996
May	537	521	9.4	10,359
June	586	584	9.0	10,857
July	556	532	10.0	7,795
August	603	591	12.3	8,163
September	609	576	10.6	7,662
October	584	541	10.9	9,308
November	613	579	11.6	11,743
December	594	582	8.6	8,497
1989—				
January	415	610	6.8	5,772
February	586	603	10.5	9,651
March	621	612	10.5	9,677
April	529	535	9.4	8,191
1987-88 : July to Apr.	5,027	..	79	71,784
1988-89 : July to Apr.	5,709	..	101	86,459

(a) See paragraph 6, Explanatory Notes. (b) Expressed in terms of 400 mm x 200 mm x 200 mm blocks.

TABLE 4. READY MIXED CONCRETE(a)  
(<sup>000</sup> cu. m)

Period	N.S.W.	Vic.	Qld	S.A.		W.A.	Tas.	A.C.T.	N.T.	Australia
				(475 90)						
1985-86	4,587	3,063	3,138	1,092	1,350	312	406	213	14,161	
1986-87	4,492	3,225	3,025	954	1,261	275	389	189	13,810	
1987-88	4,730	3,608	3,633	1,004	1,339	333	323	122	15,093	
1988—										
February	406	327	317	94.0	116.3	29.2	25.7	8.8	1,324	
March	463	354	317	101.0	123.6	35.5	25.6	8.3	1,429	
April	236	285	218	79.4	105.8	25.8	14.9	6.8	972	
May	434	334	363	83.4	119.0	30.0	22.0	8.2	1,393	
June	444	318	337	83.0	123.4	30.0	25.3	10.2	1,370	
July	443	318	326	86.8	123.1	26.5	21.4	8.9	1,354	
August	466	366	370	95.8	142.7	32.7	25.8	10.1	1,509	
September	485	372	390	95.8	135.0	33.8	28.0	8.5	1,547	
October	480	379	381	94.8	147.7	28.3	23.6	10.7	1,545	
November	479	345	409	109.9	153.4	33.7	30.3	9.6	1,569	
December	383	348	281	88.5	123.8	28.6	20.9	5.4	1,279	
1989—										
January	298	238	292	61.0	99.4	22.9	13.9	6.4	1,032	
February	460	403	274	87.6	126.5	31.5	27.9	7.1	1,417	
March	435	370	303	98.0	149.5	31.9	21.8	4.9	1,414	
April	338	394	295	98.1	140.5	32.0	20.5	5.6	1,324	
1987-88 : July to Apr.	3,851	2,956	2,933	837	1,097	274	276	104	12,329	
1988-89 : July to Apr.	4,266	3,532	3,320	916	1,342	302	235	78	13,989	

(a) Reported production of ready mixed concrete for sale as such. Excludes production used, or for use, in the same establishment.

TABLE 5. LIGNOCELLULOSE AND DECORATIVE SURFACED BOARDS AND SHEETS

Period	Lignocellulose boards and sheets		Decorative surfaced boards and sheets(c)	Plastic building materials		
	Particle board resin bonded(a)			On particle board (425.08)	Decorative laminated high pressure (425.01)	Profile sheet(d) (425.19)
	Original (336.12)	Seasonally adjusted(b)				
	—'000 cu.m—			—'000 sq.m—		
1985-86	731	..	14,757	5,161	3,261	
1986-87	705	..	17,084	4,905	3,270	
1987-88	728	..	18,648	5,202	3,240	
1988—						
February	66.4	60.5	1,277	420	247	
March	73.4	58.5	1,745	510	292	
April	53.3	54.7	1,329	408	213	
May	58.1	55.2	1,810	434	291	
June	69.3	62.5	1,880	418	334	
July	58.5	58.8	1,466	517	173	
August	77.3	68.9	1,862	461	314	
September	64.5	63.6	1,634	578	301	
October	64.8	61.6	1,679	516	283	
November	79.9	68.8	1,977	534	n.p.	
December	45.2	59.7	891	465	n.p.	
1989—						
January	31.9	74.5	864	151	n.p.	
February	63.8	59.4	1,609	480	281	
March	80.2	65.5	1,926	471	256	
April	64.8	65.3	1,759	400	260	
1987-88 : July to Apr.	600	..	14,958	4,350	2,615	
1988-89 : July to Apr.	631	..	15,666	4,574	n.p.	

(a) Original forming of boards and sheets including special compositions. Includes board and sheet for subsequent conversion to other purposes in the same establishment as well as for sale or transfer out. (b) See paragraph 6, Explanatory Notes. (c) Excludes decorative laminated sheets simply bonded by means of an adhesive to a substrate. (d) Corrugated, etc. (including fibre glass reinforced).

TABLE 6. TIMBER, INSULATION AND PLUMBING FIXTURES

Period	Bonded mineral wool		Sinks (inc. combination sinks)	Ceramic products	
	Sawn Australian grown timber(a)	Glass (excl. sectional pipe insulation) (479.01)	Pressed steel standard size-stainless(b) (480.91)	Wash basins wall and pedestal (671.37)	Pans (closet) (671.41)
1985-86	3,002	19,420	268,425	260,611	538,918
1986-87	2,928	19,030	240,190	238,489	565,960
1987-88	3,183	20,287	276,243	n.p.	n.p.
1988—					
February		2,092	24,569	n.p.	n.p.
March	764	1,670	32,333	n.p.	n.p.
April		972	24,388	n.p.	n.p.
May		1,134	33,316	n.p.	n.p.
June	857	1,821	19,837	n.p.	n.p.
July		n.p.	26,129	n.p.	n.p.
August		n.p.	28,826	n.p.	n.p.
September	823	n.p.	27,930	n.p.	n.p.
October		n.p.	27,098	n.p.	n.p.
November		n.p.	30,281	n.p.	n.p.
December	784	n.p.	22,655	n.p.	n.p.
1989—					
January		902	9,457	n.p.	n.p.
February		n.p.	25,606	n.p.	n.p.
March	n.y.a.	n.p.	25,314	n.p.	n.p.
April		n.p.	26,132	n.p.	n.p.
1987-88 : July to Apr.	3,090	17,332	223,090	n.p.	n.p.
1988-89 : July to Apr.	n.y.a.	n.p.	249,428	n.p.	n.p.

(a) Source: Department of Primary Industries and Energy. Quarterly figures are expressed in terms of green off saw volumes. (b) Excludes enamelled or galvanized sinks.

TABLE 7. COOKING STOVES, OVENS AND RANGES  
(number)

Period	Domestic types—						Total	Non-domestic types
	Electric			Gas(b)				
	Ranges(a) fixed and other (661.02)	Wall ovens (661.11)	Cooking tops (661.13)	Standard town (662.31)	LP and TLP (662.26)	Natural (662.34)		
1985-86	122,551	83,608	72,675	11,183	30,329	65,449	106,961	4,565
1986-87	106,825	76,196	58,755	8,214	26,637	59,855	94,706	4,325
1987-88	115,807	91,931	67,820	7,448	25,666	60,586	93,700	4,625
1988—								
February	10,127	8,389	6,366	717	2,188	5,192	8,097	333
March	11,207	9,410	7,177	673	2,334	5,394	8,401	392
April	9,951	8,582	6,049	521	1,833	3,778	6,132	324
May	11,021	10,119	6,570	586	2,190	4,957	7,733	367
June	9,903	8,975	6,911	617	2,402	5,150	8,169	332
July	9,577	10,029	7,059	561	2,140	5,811	8,512	n.p.
August	12,082	10,265	8,534	553	2,198	6,191	8,942	n.p.
September	11,862	9,944	7,583	580	2,035	4,531	7,146	n.p.
October	11,491	8,892	6,674	514	1,966	4,688	7,168	n.p.
November	12,096	11,721	6,388	644	2,650	6,456	9,750	n.p.
December	6,237	11,304	6,456	357	1,728	3,671	5,756	n.p.
1989—								
January	4,506	4,741	3,037	141	461	1,918	2,520	129
February	9,032	11,063	7,530	508	1,848	4,371	6,727	197
March	8,600	10,702	7,134	n.p.	n.p.	3,405	5,457	n.p.
April	8,762	9,120	7,792	603	2,365	5,653	8,621	n.p.
1987-88 : July to Apr.	94,883	72,837	54,339	6,245	21,074	50,479	77,798	3,926
1988-89 : July to Apr.	94,245	97,781	68,187	n.p.	n.p.	46,695	70,599	n.p.

(a) Having at least one hotplate and one oven separately heated. Total rating not exceeding 15kW. (b) Gas stoves and ranges, upright or elevated (with oven) excludes cooking tops, hotplates, stoves, etc.

TABLE 8. COMPLETE HOT WATER SYSTEMS, SPACE HEATERS AND SOLAR COLLECTORS

Period	Complete hot water systems (a)					Space heaters(c)		
	Electric storage— displacement type		Gas			Gas fired warm air furnaces (651.28.29)	Gas fires and gas space heaters —all types (651.15)	Solar collectors(d) (654.84-87)
	Full mains pressure (654.11)	Constant pressure (654.12)	Natural (654.24)	Other (654.25)	Solar (b) (654.28)			
	—number—							
1985-86	247,276	14,103	100,173	21,161	40,802	28,686	69,361	188,950
1986-87	236,460	12,943	116,703	20,832	29,283	27,261	59,226	167,499
1987-88	252,231	11,266	121,862	24,093	31,421	28,915	70,381	160,541
1988—								
February	25,471	667	11,722	3,280	2,770	1,794	5,263	14,459
March	24,560	1,036	10,728	2,667	2,523	2,725	6,425	13,078
April	15,515	855	8,150	2,123	2,078	2,366	7,155	9,033
May	25,453	1,039	9,545	2,473	2,846	3,253	8,799	13,231
June	27,528	1,008	11,240	2,627	2,605	3,437	7,853	10,584
July	n.p.	1,170	11,228	1,916	3,069	2,609	6,118	13,581
August	n.p.	1,077	13,380	2,932	3,392	2,203	6,100	16,089
September	n.p.	1,034	13,122	1,683	2,873	1,965	3,977	12,661
October	n.p.	993	13,182	2,274	3,224	1,914	4,154	15,967
November	n.p.	919	n.p.	n.p.	3,294	1,737	4,419	14,856
December	n.p.	745	n.p.	n.p.	2,888	n.p.	3,628	11,365
1989—								
January	n.p.	232	2,261	n.p.	1,387	767	1,663	7,459
February	19,679	500	10,163	1,223	2,640	2,390	4,110	11,555
March	21,114	848	11,770	1,539	2,859	2,368	5,995	15,546
April	20,503	796	12,560	1,553	2,975	1,705	7,920	10,793
1987-88 : July to Apr.	199,250	9,219	101,077	18,993	25,970	22,225	53,729	136,726
1988-89 : July to Apr.	n.p.	8,314	n.p.	n.p.	28,601	n.p.	48,084	129,872

(a) Both domestic and non-domestic up to 900 litres storage capacity. (b) Includes hot water systems that also have a conventional back up energy source. (c) Includes both domestic and non-domestic types. (d) For household or industrial water heating purposes (e.g. hot water systems, swimming pool heating). Production figures relate to effective area of aperture.

## EXPLANATORY NOTES

**Introduction**

1. This publication is one of a series of eight containing monthly and quarterly production statistics. The titles of the other publications of this series are shown in paragraph 7 below.

2. Data contained in these publications are mostly based on monthly or quarterly collections conducted by the Australian Bureau of Statistics (ABS). Where another authority is the source this is indicated in a footnote.

**Classification**

3. Most items are identified by the commodity codes used in Australian manufacturing statistics. However, in cases where data are derived from sources other than ABS collections no commodity code is shown. In general, where items are combined they have been arranged so as to align production data with import and export commodity items in accordance with the Australian Standard Commodity Classification (ASCC), for further information regarding the ASCC, see the ABS publication *Australian Standard Commodity Classification, Part 1: Introduction, Summary Classification and Commodity Keys* (1207.0).

**Scope and coverage**

4. Manufacturing commodity statistics collected by the ABS exclude details relating to single establishment manufacturing enterprises with fewer than four persons employed and production of establishments predominantly engaged in non-manufacturing activities but which may carry on, in a minor way, some manufacturing. However, except for a few commodities the effect on production levels and movements is marginal.

5. Annual figures shown in this publication are derived by aggregating monthly/quarterly production and relate to production during the year ended 30 June. They may differ from annual manufacturing census data which relate to the census year and, in the case of businesses unable to report on a June year basis include details in respect of substitute accounting periods.

**Seasonal adjustment**

6. This publication contains seasonally adjusted statistics of several items. In the seasonal adjustment, account has been taken not only of normal seasonal factors but also of 'working-day' effects (arising from the varying numbers of Sundays, Mondays, Tuesdays etc. in the month) and the influence of Easter and Australia Day which may, in successive years, affect figures for different months. However, care should be exercised in interpreting the figures for those months in which Christmas/New Year and Easter holidays fall as some manufacturers vary holiday shutdowns in the light of prevailing demand for their products. Details of the methods used in seasonally adjusting these and other series are available on request.

**Related publications**

7. Other ABS publications which may be of interest are:

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*Production of Food, Drink and Tobacco, Australia* (8359.0)—issued monthly

*Production of Textiles, Bedding and Floor Coverings, Australia* (8360.0)—issued monthly

*Production of Chemicals and By-products, Australia* (8362.0)—issued monthly

*Production of Motor Vehicles, Motor Bodies and Trailed Vehicles, Australia* (8363.0)—issued quarterly

*Production of Energy and Metal Products, Australia* (8364.0)—issued monthly

*Manufacturing Commodities: Selected Principal Articles Produced, Australia, 1986-87, Preliminary* (8365.0)

*Manufacturing Commodities: Principal Articles Produced, Australia, 1983-84 and 1984-85* (8303.0)

8. Current publications produced by the ABS are listed in the *Catalogue of Publications, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

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