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DECEMBER 1989**

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TABLE 1. BRICKS
(million)

Clay									
For structural purposes									
Period	NSW and ACT	Vic.	Qld	Other States (662,46,47)	Australia			For other purposes (incl. pavers)	Concrete(c) (663.44)
					Original	Seasonally adjusted(a)	Trend(b)	(662.48)	
1986-87	705	447	214	482	1,847	..	..	154.5	50.0
1987-88	713	427	262	464	1,867	..	..	165.1	66.5
1988-89	787	440	351	564	2,142	..	..	183.5	158.7
1988-									
October	64.6	36.8	25.7	47.9	175	173	180	14.0	12.9
November	72.4	42.3	33.2	46.2	194	185	186	18.0	16.4
December	59.0	30.3	28.1	43.6	161	185	191	16.1	11.9
1989-									
January	55.2	25.0	28.4	44.8	153	228	192	17.0	9.5
February	63.5	35.7	29.5	43.9	173	183	189	17.0	14.7
March	63.6	33.1	30.6	49.7	177	163	185	13.9	17.9
April	63.7	36.4	28.2	49.7	178	182	180	12.3	13.3
May	75.3	45.0	32.9	51.8	205	185	177	15.2	17.0
June	64.6	37.5	31.4	46.5	180	169	177	18.9	14.1
July	70.8	36.0	26.9	49.4	182	177	176	16.5	18.6
August	75.6	43.5	30.1	52.7	202	184	177	16.4	21.6
September	68.2	36.6	21.8	50.4	177	168	177	15.5	17.9
October	71.0	43.9	31.7	45.6	192	183	176	23.8	19.9
November	68.0	38.9	29.6	44.3	181	175	176	21.6	21.0
December	56.1	30.5	23.4	34.1	144	170	177	25.8	10.2
1988-89: July to Dec.	401	226	170	277	1076	..	..	89.0	72.3
1989-90: July to Dec.	409	230	163	275	1078	..	..	120	109

(a) See paragraph 5, Explanatory Notes. (b) See paragraphs 6 to 8, Explanatory Notes. (c) Excludes non-standard size bricks prior to July 1989.

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

Period	Flat surface measure (a)					
	NSW and ACT	Vic.	WA (662.51,663.46)	Other States	Australia	
					Terracotta (662.51)	Concrete (663.46)
1986-87	5,685	5,274	2,967	3,756	3,285	14,397
1987-88	6,394	5,234	3,369	4,745	3,399	16,342
1988-89	7,474	5,958	4,541	6,827	3,715	21,085
1988-						
October	603	525	390	604	344	1,779
November	762	594	386	702	339	2,106
December	579	404	350	511	291	1,552
1989-						
January	332	250	321	300	168	1,034
February	658	511	390	652	272	1,940
March	652	462	416	629	321	1,839
April	633	509	399	597	326	1,811
May	646	547	475	621	367	2,022
June	647	547	451	601	349	1,897
July	723	527	454	562	397	1,869
August	784	550	527	593	429	2,025
September	637	508	481	568	337	1,857
October	702	557	463	547	420	1,849
November	752	513	402	602	398	1,871
December	521	323	296	387	282	1,244
1988-89: July to Dec.	3,906	3,031	2,088	3,428	1,912	10,542
1989-90: July to Dec.	4,119	2,979	2,623	3,259	2,264	10,716

(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, CONCRETE PRODUCTS AND REFRACTORY CONSTRUCTION MATERIALS

Period	Portland cement and blended portland cement			Portland cement clinker (661.21)	Refractory bricks and other refractory construction materials (662.30)	Concrete blocks (c) (663.45)
	Original (661.22)	Seasonally adjusted (a)	Trend r (b)			
	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	million
1986-87	5,920	..	..			89.1
1987-88	6,158	..	..			97.5
1988-89	6,901	..	..			123.3
1988- October	584	547	572			10.9
November	613	579	579	Not	available	11.6
December	594	582	585	prior to	July 1989	8.6
1989- January	415	603	589			6.8
February	586	600	588			10.5
March	621	608	585			10.5
April	529	536	584			9.3
May	595	585	588			12.0
June	595	592	598			10.1
July	641	622	611	527	n.p.	8.7
August	678	644	621	597	n.p.	9.8
September	653	616	624	468	n.p.	9.7
October	659	619	619	500	1.93	r 10.2
November	686	643	610	575	2.33	6.8
December	548	548	600	517	1.34	
1988-89: July to Dec.	3,561	..	..	n.a.	n.a.	64.0
1989-90: July to Dec.	3,865	..	..	3,184	n.p.	54.9

(a) See paragraph 5, Explanatory Notes. (b) See paragraph 6 to 8 Explanatory Notes. (c) Expressed in terms of 400mm x 200mm x 200mm blocks.

TABLE 4. READY MIXED CONCRETE (a)
(*000 cu. m)

Period	NSW	Vic.	Qld	SA	WA (596.01)	Tas	NT	ACT	Australia
1986-87	4,567	3,225	3,025	954	1,261	275	189	389	13,885
1987-88	4,789	3,615	3,633	1,004	1,339	333	122	323	15,160
1988-89	5,199	4,346	4,086	1,123	1,636	364	94	282	17,131
1988- October	487	379	381	94.8	148	28.3	10.7	23.6	1,552
November	485	345	409	109.9	153	33.7	9.6	30.3	1,575
December	388	348	281	88.5	124	28.6	5.6	18.0	1,282
1989- January	306	238	292	61.0	101	22.9	6.4	13.9	1,040
February	467	403	291	92.8	130	31.5	7.1	27.9	1,450
March	442	373	303	99.6	149	31.9	4.9	21.8	1,426
April	346	398	295	98.1	140	32.0	5.6	20.5	1,336
May	458	437	340	112.0	152	33.1	8.7	26.4	1,567
June	407	368	408	88.4	137	28.5	7.9	24.5	1,470
July	509	360	389	89.5	114	26.8	7.1	20.9	1,516
August	578	371	387	96.7	141	29.6	7.6	26.7	1,637
September	557	395	385	93.2	118	28.6	9.3	25.7	1,612
October	487	383	372	99.1	134	27.2	10.0	22.0	1,535
November	533	r 409	355	109.4	r 138	31.0	8.8	r 27.7	r 1,612
December	367	339	287	81.8	103	25.3	6.4	19.6	1,229
1988-89: July to Dec.	2,774	2,129	2,156	572	826	184	53	147	8,841
1989-90: July to Dec.	3,032	2,258	2,174	570	748	169	49	143	9,141

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

TABLE 5. PARTICLE BOARDS AND SIMILAR BOARDS AND SHEETS(a)

Period	Particle board and similar boards of wood or other ligneous materials(b)	Decorative melamine or D.A.P. laminates(d)	Veneer sheets and sheets for plywood		Rigid plastic sheeting, plates, boards and panels		Plaster boards, sheets, panels, tiles and similar articles, not ornamented
	Not laminated(c)	(634 25)	Peeled	Sliced	Laminated	Reinforced	(663 41)
	'000 cu.m	'000 cu.m	'000 sq.m	'000 sq.m	'000 sq.m	'000 sq.m	'000 sq.m
1989-							
July	68.3	59.0	n.p.	58.4	n.p.	216	n.p.
August	86.9	67.5	n.p.	74.2	n.p.	n.p.	n.p.
September	74.9	59.5	n.p.	69.5	n.p.	n.p.	n.p.
October	74.2	82.0	n.p.	74.0	n.p.	289	n.p.
November	88.4	91.5	n.p.	97.0	n.p.	339	n.p.
December	48.2	58.4	n.p.	53.3	n.p.	272	n.p.
1989-90: July to Dec.	441	418	n.p.	426	n.p.	n.p.	n.p.

(a) Data not collected prior to July 1989. (b) Boards, whether or not agglomerated with resins or other organic binding substances. Excludes fibreboard and fibre paperboard. (c) Includes board for subsequent conversions to other purposes. (d) Excludes decorative laminated sheets simply bonded by means of an adhesive to a substrate.

TABLE 6. TIMBER, PLUMBING FIXTURES AND CERAMIC TILES

Period	Plumbing fixtures				Glazed ceramic flags and paving, hearth or wall tiles and glazed ceramic mosaic cubes (662 45)
	Sawn Australian grown timber (a)	Sinks (inc. combination sinks)	Ceramic products		
		Pressed steel standard size stainless (b) (697 56)	Wash basins wall and pedestal (812 22)	Pans (closet) (812 23)	
	'000 cu.m	number	number	number	'000 sq.m
1986-87	2,923	240,190	238,489	565,960	
1987-88	3,083	276,243	n.p.	n.p.	
1988-89	3,194	300,137	n.p.	n.p.	
1988-					
October		27,098	n.p.	n.p.	
November		30,281	n.p.	n.p.	
December	807	22,655	n.p.	n.p.	
1989-					
January		9,457	n.p.	n.p.	
February		25,617	n.p.	n.p.	
March	723	25,314	n.p.	n.p.	
April		26,132	n.p.	n.p.	
May		27,426	n.p.	n.p.	
June	841	23,272	n.p.	n.p.	
July		25,707	n.p.	n.p.	
August		30,220	n.p.	n.p.	359
September	877	26,574	n.p.	n.p.	437
October		27,638	n.p.	n.p.	351
November		30,232	n.p.	n.p.	360
December	nya	23,982	n.p.	n.p.	251
1988-89: July to Dec.	1630	162,919	n.p.	n.p.	n.a.
1989-90: July to Dec.	nya	164,353	n.p.	n.p.	2121

(a) Source: Australian Bureau of Agricultural and Resource Economics. Quarterly figures are expressed in terms of green off saw volumes. (b) Excludes enamelled or galvanised sinks.

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

Period	Domestic types							Total
	Electric			Gas				
	Ranges (a) fixed and other (775.95)	Wall ovens (775.96)	Cooking tops (775.97)	Standard town (697.36)	LP and TLP (697.37)	Natural (697.38)		
1986-87	106,825	76,196	58,755					
1987-88	115,807	91,931	67,820					
1988-89	114,319	118,458	n.p.					
1988-								
October	11,491	8,892	6,674					
November	12,096	11,721	6,388		Not available prior to July 1989			
December	6,237	11,304	6,456					
1989-								
January	4,506	4,741	3,037					
February	9,032	11,063	7,530					
March	8,600	10,702	7,134					
April	8,762	9,120	7,792					
May	10,116	8,934	7,571					
June	9,958	11,743	n.p.					
July	10,664	10,333	n.p.	n.p.	n.p.	5,564	8,993	
August	13,042	11,123	n.p.	n.p.	n.p.	n.p.	n.p.	
September	11,375	10,498	n.p.	n.p.	n.p.	n.p.	n.p.	
October	11,549	11,426	n.p.	n.p.	n.p.	n.p.	n.p.	
November	9,471	9,751	n.p.	n.p.	n.p.	n.p.	n.p.	
December	6,795	8,787	n.p.	n.p.	n.p.	n.p.	n.p.	
1988-89: July to Dec.	63,345	62,155	42,694	n.a.	n.a.	n.a.	n.a.	
1989-90: July to Dec.	62,896	61,918	n.p.	n.p.	n.p.	n.p.	n.p.	

(a) Having at least one hotplate and one oven separately heated. Total rating not exceeding 15 kW.

TABLE 8. WATER HEATERS (a)
(number)

Period	Electric			Gas		
	Storage and immersion					
	Instantaneous (775.75)	Full mains pressure (775.93)	Other (775.94)	Instantaneous (741.81)	Other (741.76)	Solar (b) (741.77)
1986-87		236,460				29,283
1987-88		252,355				31,421
1988-89		n.p.				35,203
1988-						
October		n.p.				3,224
November		n.p.		Not available		3,294
December	Not available prior to July 1989	n.p.		prior to July 1989		2,888
1989-						
January		n.p.				1,387
February		20,895				2,640
March		21,114				2,859
April		20,503				2,975
May		24,816				3,793
June		24,872				2,809
July	1,350	25,212	1,135	n.p.	n.p.	2,627
August	2,126	38,656	1,745	n.p.	n.p.	3,586
September	1,474	27,164	1,381	n.p.	n.p.	2,881
October	1,581	34,082	1,227	n.p.	n.p.	3,113
November	1,864	35,560	1,262	n.p.	n.p.	3,263
December	1,088	29,523	665	n.p.	n.p.	2,613
1988-89: July to Dec.	n.a.	n.p.	n.a.	n.a.	n.a.	18,740
1989-90: July to Dec.	9,483	190,197	7,415	n.p.	n.p.	18,083

(a) Both domestic and non-domestic. (b) Includes systems which also have a conventional backup energy source.

TABLE 9. DOMESTIC SPACE HEATERS AND SOLAR COLLECTORS

Period	Non-electric domestic space heaters			
	Solid fuel space heaters (697.61)	Warm air furnaces(a) (697.63)	Gas fires and gas space heaters (697.62)	Solar collectors (b) (775.52)
	number	number	number	sq.m
1986-87		27,059	59,226	167,499
1987-88		28,697	70,381	160,541
1988-89		26,675	64,121	154,136
1988.				
October		1,898	4,154	15,967
November		1,727	4,419	14,856
December		1,187	3,628	11,365
1989.	Not available prior to July 1989			
January		762	1,663	7,459
February		2,386	4,110	11,555
March		2,338	5,995	15,546
April		2,384	7,920	10,793
May		3,734	8,526	13,475
June		3,581	7,511	10,789
July	n.p.	3,923	5,609	9,104
August	n.p.	3,848	5,960	12,653
September	n.p.	2,296	2,787	17,188
October	n.p.	2,699	2,683	17,798
November	n.p.	1,938	2,861	23,996
December	n.p.	1,352	2,184	11,526
1988-89: July to Dec.	n.a.	11,490	28,396	84,519
1989-90: July to Dec.	n.p.	16,056	22,084	92,265

(a) Includes non-domestic gas fired warm air furnaces prior to July 1989. (b) 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

This publication is one of a series of nine containing monthly and quarterly production statistics. The titles of the other publications of this series are shown in paragraph 9.

Classification

2. Data contained in these publications are mostly based on monthly or quarterly collections conducted by the Australian Bureau of Statistics (ABS). Most items are identified by the commodity codes used in the Australian Manufacturing Production Commodity Classification (AMPPC), which was developed by the ABS to facilitate greater comparability of manufacturing production commodity statistics with import and export commodity statistics. AMPPC items were introduced into the monthly production collections (catalogues 8301.0, 8357.0 to 8363.0, 8367.0 and 8368.0) from July 1989. The last available data relating to superseded commodity items are published in the June 1989 issue. In cases where data are derived from sources other than ABS collections no commodity code is shown and the source of the data is acknowledged in a footnote.

Scope and coverage

3. 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.

4. 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 and trend estimates

5. 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, where appropriate, 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.

6. The smoothing of seasonally adjusted series to create trend estimates is a means of reducing the impact of the irregular component of the series. The trend estimates have been derived by applying a 13-term Henderson

weighted moving average to the seasonally adjusted series.

7. While this smoothing technique enables estimates of trend to be produced for the latest month, it does result in revisions to the estimates for the most recent months as data for subsequent months become available. Generally subsequent revisions become smaller and after 3 months have little impact on the series. There will also be revisions as a result of revisions to the original estimates and annual reviews of seasonal and 'working day' factors.

8. Users may wish to refer to the ABS Information Papers *A Guide to Smoothing Time Series - Estimates of Trend* (1316.0) and *Time Series Decomposition - An Overview* (1317.0) for more detailed information on smoothing of seasonally adjusted time series data.

Related publications

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

Production Statistics, Australia, Preliminary (8301.0)—issued monthly

Production of Household Appliances and Electrical Equipment, Australia (8357.0)—issued monthly

Production of Clothing and Footwear, Australia (8358.0)—issued monthly

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

Production of Fibres, Yarns, Fabrics, Bedding and Floor Coverings, Australia (8360.0)—issued monthly

Production of Paper, Plastics, Paints, Industrial Chemicals and Detergents, Australia (8362.0)—issued monthly

Production of Transport Equipment, Australia (8363.0)—issued quarterly

Production of Metal Products, Australia (8367.0)—issued monthly

Production of Energy Products, Australia (8368.0)—issued monthly

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

Manufacturing Commodities : Principal Articles Produced, Australia 1986-87 (8303.0)

10. Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, 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.

Symbols and other usages

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