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AUGUST 1990**

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TABLE 1. CLAY BRICKS
(million)

Period	NSW and ACT	Vic	Qld	Other States (662 46, 47)	Australia			For other purposes (incl. pavers) (662 48)
					Original	Seasonally adjusted (a)	Trend (b)	
1987-88	713	427	262	465	1,867	..	..	165
1988-89	786	440	351	564	2,142	..	..	183
1989-90	773	442	308	533	2,060	..	..	242
1989 —								
June	63.7	37.5	31.4	47.0	180	173	176	18.9
July	69.3	36.0	26.9	49.6	182	178	177	16.5
August	75.6	43.5	30.1	52.9	202	182	178	16.5
September	68.2	36.6	21.8	51.0	178	172	178	15.5
October	71.1	43.9	31.7	45.8	192	183	177	23.8
November	68.0	38.9	29.6	44.5	181	175	176	21.6
December	56.1	30.5	23.4	34.4	144	172	174	25.9
1990 —								
January	47.3	22.7	17.3	39.8	127	178	172	25.8
February	59.9	36.4	23.5	35.1	155	166	170	24.7
March	67.4	42.7	28.0	44.2	182	165	168	20.6
April	56.0	35.3	22.6	45.8	162	169	166	17.4
May	71.7	39.1	28.3	49.1	188	166	165	16.5
June	62.4	36.8	25.0	41.3	165	163	163	17.5
July	63.7	38.6	29.4	36.7	168	159	162	22.3
August	75.0	36.4	26.3	41.4	179	162	161	17.2
1989-90: July to Aug.	144.8	79.5	57.0	102.6	384	..	..	33.0
1990-91: July to Aug.	138.7	75.1	55.8	78.1	348	..	..	39.5

(a) See paragraph 5 of Explanatory Notes. (b) See paragraph 6 to 8, Explanatory Notes.

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

Period	NSW and ACT	Vic.	WA (662 51, 663 46)	Other States	Australia	
					Terracotta (662 51)	Concrete (663 46)
1987-88	6,394	5,234	3,369	4,744	3,399	16,342
1988-89	7,474	5,958	4,541	6,838	3,715	21,085
1989-90	7,547	5,473	4,127	5,881	4,343	18,685
1989 —						
June	646	547	451	602	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
1990 —						
January	312	188	253	218	234	736
February	614	462	313	492	337	1,544
March	703	496	267	433	400	1,029
April	443	365	217	365	361	1,029
May	747	528	229	572	368	1,708
June	610	454	224	458	379	1,367
July	620	466	240	471	390	1,407
August	737	432	214	514	381	1,515
1989-90: July to Aug.	1,506	1,078	981	1,155	826	3,894
1990-91: July to Aug.	1,356	898	453	985	771	2,922

(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 BLOCKS, BRICKS AND PAVERS AND REFRACTORY CONSTRUCTION MATERIALS
(^{'000 tonnes)}

Period	Portland cement and blended portland cement			Portland cement clinker (c) (661.21)	Refractory bricks and other refractory construction materials (c) (662.30)	Concrete blocks, bricks and pavers (d) (663.61, 62.63)
	Original (661.22)	Seasonally adjusted (a)	Trend (b)			
1987-88	6,158	..	..			
1988-89	6,901	..	..			
1989-90	7,075	..	..	5,885	n.p.	
1989 —						
June	595	588	598			
July	641	618	607	527	n.p.	
August	678	631	616	597	n.p.	
September	653	613	619	468	n.p.	
October	659	614	617	500	n.p.	
November	686	630	607	575	n.p.	
December	548	562	592	517	n.p.	
1990 —						
January	431	610	578	509	n.p.	
February	520	538	567	443	n.p.	
March	614	578	559	459	n.p.	
April	449	502	555	405	n.p.	
May	608	588	551	432	n.p.	
June	587	581	547	453	n.p.	
July	522	505	541	491	24.1	r 173
August	572	534	538	536	9.9	170
1989-90: July to Aug.	1,319	..	..	1,124	n.p.	n.a.
1990-91: July to Aug.	1,094	..	..	1,028	34.0	343

(a) See paragraph 5, Explanatory Notes. (b) See paragraph 6 to 8, Explanatory Notes. (c) Not available prior to July 1989. (d) Previously, details of concrete bricks and concrete blocks were collected in millions. See the June 1990 issue for details.

TABLE 4. READY MIXED CONCRETE (a)
(^{'000 cu. m)}

Period	NSW	Vic.	Qld	SA	WA (596.01)	Tas.	NT	ACT	Australia
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
1989-90	5,369	4,255	3,893	1,113	1,391	315	89	271	16,691
1989 —									
June	407	368	408	88.4	137	28.5	7.87	24.5	1,470
July	509	360	389	89.5	114	26.8	7.08	20.9	1,516
August	578	371	387	96.7	141	29.6	7.57	26.7	1,637
September	557	395	385	93.2	118	28.6	9.25	25.7	1,612
October	488	383	372	99.8	134	27.2	9.98	22.0	1,536
November	535	409	355	110.3	138	31.0	8.76	27.7	1,615
December	368	339	287	82.4	103	25.3	6.44	19.6	1,230
1990 —									
January	302	253	260	69.2	94	20.0	5.26	13.5	1,016
February	369	357	279	89.9	108	26.3	5.76	24.3	1,260
March	468	423	294	102.5	119	30.0	6.23	29.0	1,471
April	249	298	241	80.8	92	22.4	6.75	14.5	1,004
May	466	319	333	104.5	127	26.0	8.23	24.6	1,408
June	479	348	312	94.2	105	21.3	7.66	22.5	1,385
July	456	303	330	80.1	89	19.8	7.98	21.1	1,344
August	460	300	352	84.9	104	22.5	9.30	26.0	1,358
1989-90: July to Aug.	1,087	731	776	186.2	255	56.4	14.65	47.6	3,153
1990-91: July to Aug.	917	603	681	165.0	193	42.2	17.28	47.1	2,702

(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)		Veneer sheets and sheets for plywood		Reinforced, rigid plastic sheeting, plates, boards and panels (582.93)	Plaster boards, sheets, panels, tiles and similar articles, not ornamented (663.41)
	Not laminated (c) (634.27)	Decorative melamine or D.A.P. laminates (d) (634.25)	Peeled (634.13)	Sliced (634.14)		
1989-90	774	726	n.p.	1,322	4,030	n.p.
1989 —						
July	68.3	59.0	n.p.	58.4	216	n.p.
August	86.9	67.5	n.p.	74.2	n.p.	n.p.
September	74.9	59.5	n.p.	69.5	n.p.	n.p.
October	74.2	82.0	n.p.	74.0	289	n.p.
November	88.4	91.5	n.p.	97.0	339	n.p.
December	48.2	58.4	n.p.	53.3	272	n.p.
1990 —						
January	39.1	20.7	n.p.	n.p.	394	n.p.
February	65.9	64.0	n.p.	69.3	530	n.p.
March	68.2	64.4	n.p.	197.2	472	n.p.
April	47.6	55.9	n.p.	196.1	n.p.	n.p.
May	65.6	59.8	n.p.	259.1	n.p.	n.p.
June	46.7	43.7	n.p.	n.p.	n.p.	n.p.
July	53.0	53.9	n.p.	166.9	274	n.p.
August	66.0	57.6	n.p.	213.5	281	n.p.
1989-90: July to Aug.	155.2	126.5	n.p.	132.6	n.p.	n.p.
1990-91: July to Aug.	119.0	111.5	n.p.	380.5	556	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, STAINLESS STEEL SINKS AND CERAMIC TILES

Period	Sawn Australian grown timber (a)	Sinks (inc. combination sinks) pressed steel standard size stainless (b) (697.56)	Glazed ceramic flags and paving, hearth or wall tiles and glazed ceramic mosaic cubes (c) (662.45)
	'000 cu.m	number	'000 sq.m
1987-88	3,083	276,243	
1988-89	3,225	300,137	
1989-90	3,148	285,461	3,475
1989 —			
June	848	23,272	
July		25,707	359
August		30,220	437
September	877	26,574	351
October		27,638	363
November		30,232	360
December	811	23,982	251
1990 —			
January		7,697	n.p.
February		20,366	304
March	730	21,358	279
April		18,756	226
May		25,625	283
June	730	27,306	n.p.
July		19,121	224
August		22,394	290
1989-90: July to Aug.	..	55,927	796
1990-91: July to Aug.	..	41,515	513

(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. (c) Not available prior to July 1989.

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

Period	Domestic types						Total
	Electric			Gas (b)			
	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)	
1987-88	115,807	91,931	67,820				
1988-89	114,319	118,458	n.p.				
1989-90	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
1989 —							
June	9,958	11,743	n.p.				
July	10,664	10,333	n.p.	n.p.	n.p.	n.p.	n.p.
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.
1990 —							
January	4,594	2,088	n.p.	n.p.	n.p.	n.p.	n.p.
February	9,065	8,576	n.p.	n.p.	n.p.	n.p.	n.p.
March	11,768	9,147	n.p.	n.p.	n.p.	n.p.	n.p.
April	7,729	7,231	n.p.	n.p.	n.p.	n.p.	n.p.
May	11,843	8,503	n.p.	n.p.	n.p.	n.p.	n.p.
June	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
July	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
August	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
1989-90: July to Aug.	23,706	21,456	n.p.	n.p.	n.p.	n.p.	n.p.
1990-91: July to Aug.	n.p.	n.p.	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 15kW. (b) Not available prior to July 1989.

TABLE 8. WATER HEATERS (a)
(number)

Period	Electric				Gas (b) (741.76,81)	Solar (c) (741.77)
	Storage and immersion					
	Instantaneous (b) (775.75)	pressure (775.93)	Other (b) (775.94)			
1987-88		252,355				31,421
1988-89		n.p.				35,203
1989-90	15,692	331,371	18,937	186,383		32,044
1989 —						
June		24,872				2,809
July	1,350	25,212	1,135	12,602		2,627
August	2,126	38,656	1,745	n.p.		3,586
September	1,474	27,164	1,381	15,115		2,881
October	1,581	34,082	1,227	n.p.		3,113
November	1,864	35,560	1,262	n.p.		3,263
December	1,088	29,523	665	17,528		2,613
1990 —						
January	801	14,311	421	7,174		1,442
February	1,123	26,907	1,600	16,495		2,571
March	944	25,997	2,329	16,483		2,948
April	816	16,686	1,860	n.p.		1,864
May	1,494	31,346	2,817	n.p.		2,414
June	1,031	25,927	2,495	n.p.		2,722
July	1,241	24,718	1,916	15,388		2,791
August	1,455	26,207	2,078	19,487		2,705
1989-90: July to Aug.	3,476	63,868	2,880	n.p.		6,213
1990-91: July to Aug.	2,696	50,925	3,994	34,875		5,496

(a) Both domestic and non-domestic. (b) Not available prior to July 1989. (c) Includes systems which also have a conventional backup energy source.

TABLE 9. DOMESTIC SPACE HEATERS AND SOLAR COLLECTORS

Period	<i>Non-electric domestic space heaters</i>			<i>Solar collectors (c)</i> (775.52)
	<i>Solid fuel space heaters (a)</i> (697.61)	<i>Warm air furnaces (b)</i> (697.63)	<i>Gas fires and gas space heaters</i> (697.62)	
	number	number	number	sq.m
1987-88		28,697	70,381	160,541
1988-89		26,675	64,121	154,136
1989-90	27,718	n.p.	61,403	150,090
1989 —				
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
1990 —				
January	n.p.	623	1,434	8,379
February	n.p.	1,949	5,201	11,041
March	n.p.	2,003	6,290	11,430
April	n.p.	2,375	6,335	7,424
May	n.p.	4,017	10,880	9,792
June	5,509	n.p.	9,179	9,759
July	1,679	n.p.	6,914	9,819
August	763	n.p.	4,299	11,739
1989-90: July to Aug.	n.p.	7,771	11,569	21,757
1990-91: July to Aug.	2,442	n.p.	11,213	21,558

(a) Not available prior to July 1989. (b) Includes non-domestic gas fired warm air furnaces prior to July 1989. (c) 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 Standard Commodity Classification (ASCC), which was developed by the ABS to facilitate greater comparability of manufacturing production commodity statistics with import and export commodity statistics. ASCC 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 super-seeded 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

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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)

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 . . . not applicable

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