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- for information about other ABS statistics and services please refer to the back page of this publication.

TABLE 1. CLAY BRICKS
(million)

Period	For structural purposes (662 46 47)							For other purposes (incl. pavers) (662 48)
	NSW and ACT	Vic.	Qld	Other States	Australia			
					Original	Seasonally adjusted (a)	Trend (b)	
1987-88	713	460	262	465	1,900	..	..	165
1988-89	786	473	351	564	2,175	..	..	183
1989-90	773	476	308	536	2,093	..	..	242
1990 —								
January	47	24	17	40	128	180	175	26
February	60	39	24	35	158	169	173	25
March	67	46	28	44	186	168	171	21
April	56	38	23	48	165	172	170	17
May	72	42	28	49	191	168	167	16
June	62	40	25	41	168	166	164	17
July	64	40	29	37	171	161	162	22
August	64	38	26	41	169	153	160	18
September	64	34	23	35	157	158	157	17
October	71	39	28	37	175	160	154	19
November	64	34	22	36	156	150	151	20
December	54	26	19	30	129	155	147	16
1991 —								
January	36	14	16	23	89	125	144	17
February	58	30	22	28	138	147	141	16
March	64	28	22	32	147	140	138	21
1989-90: July to Mar.	583	356	232	398	1,569	..	..	191
1990-91: July to Mar.	539	283	207	301	1,330	..	..	166

(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	Other States	Australia		Total
					Terracotta (662 51)	Concrete (663 46)	
1987-88	6,394	5,234	3,369	4,744	3,399	16,342	19,741
1988-89	7,474	5,958	4,541	6,828	3,715	21,085	24,801
1989-90	7,547	5,473	4,127	5,881	4,343	18,685	23,028
1990 —							
January	312	188	253	218	234	736	970
February	614	462	313	492	357	1,544	1,881
March	703	496	267	519	400	1,585	1,984
April	443	365	217	365	361	1,029	1,390
May	747	528	229	572	368	1,708	2,076
June	610	454	224	458	379	1,367	1,746
July	619	466	240	471	389	1,407	1,796
August	736	432	214	514	380	1,515	1,896
September	579	374	205	490	320	1,329	1,649
October	702	456	219	556	380	1,553	1,933
November	669	349	229	486	347	1,387	1,733
December	520	260	179	368	245	1,082	1,328
1991 —							
January	339	108	107	245	162	638	800
February	631	352	194	496	304	1,369	1,673
March	649	393	170	473	318	1,367	1,685
1989-90: July to Mar.	5,748	4,125	3,456	4,487	3,234	14,581	17,815
1990-91: July to Mar.	5,446	3,191	1,756	4,100	2,846	11,647	14,493

(a) Refers to the theoretical effective cover 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, PORTLAND CEMENT CLINKER, CONCRETE BLOCKS, BRICKS AND PAVERS
AND REFRACTORY CONSTRUCTION MATERIALS
(*000 tonnes)

Period	Portland cement and blended portland cement (661.22)			Portland cement clinker (661.21)	Refractory bricks and other refractory construction materials (662.30)	Concrete blocks bricks and pavers (c) (663.61, 62.63)
	Original	Seasonally adjusted (a)	Trend (b)			
1987-88	6,158	..	..	n.a.	n.a.	
1988-89	6,901	..	..	n.a.	n.a.	
1989-90	7,075	..	..	5,885	135	
1990 —						
January	431	610	577	509	n.p.	
February	520	538	566	443	n.p.	
March	614	578	559	459	n.p.	
April	449	502	556	405	n.p.	
May	608	588	554	432	n.p.	
June	587	581	551	453	n.p.	
July	552	533	547	479	26	174
August	567	529	541	536	11	170
September	546	519	r 534	472	11	160
October	585	540	527	497	11	190
November	579	529	520	487	11	190
December	510	524	r 513	450	9	128
1991 —						
January	351	490	r 505	465	9	95
February	r 473	r 489	r 496	r 397	9	156
March	503	492	489	459	9	144
1989-90: July to Mar.	5,431	..	..	4,594	n.p.	n.a.
1990-91: July to Mar.	4,665	..	..	4,240	107	1,415

(a) See paragraph 5, Explanatory Notes. (b) See paragraph 6 to 8, Explanatory Notes. (c) Prior to July 1990, 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	4,803	3,615	3,633	1,004	1,342	333	122	323	15,176
1988-89	5,287	4,364	4,086	1,123	1,642	364	94	282	17,242
1989-90	5,470	4,255	3,903	1,118	1,400	315	89	271	16,821
1990 —									
January	308	253	261	70	94	20	5	14	1,025
February	376	357	280	91	108	26	6	24	1,269
March	479	423	295	103	120	30	6	29	1,484
April	254	298	242	82	92	22	7	14	1,012
May	476	319	334	105	128	26	8	25	1,420
June	489	348	312	90	105	21	8	23	1,396
July	481	303	330	81	89	20	8	20	1,333
August	470	300	352	91	104	22	9	26	1,374
September	461	262	308	84	96	22	12	23	1,267
October	488	280	347	95	101	25	11	25	1,373
November	545	278	338	89	107	26	9	28	1,419
December	385	221	246	68	78	20	6	20	1,045
1991 —									
January	295	153	206	60	72	19	5	12	821
February	r 402	249	r 251	79	78	25	4	25	r 1,112
March	427	238	286	73	86	23	3	19	1,153
1989-90: July to Mar.	4,252	3,291	3,016	840	1,075	245	66	210	12,993
1990-91: July to Mar.	3,953	2,283	2,662	719	810	202	68	198	10,896

(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

Period	Particle board and similar boards of wood or other ligneous materials (a)				
	Not laminated (b) (634 27)	Decorative melamine or D.A.P. laminates (c) (634 25)	Veneer sheets and sheets for plywood		Reinforced, rigid plastic sheathing plates, boards and panels (582 93)
			Peeled (634 13)	Sliced (634 14)	
	'000 cu.m	'000 cu.m	'000 sq.m	'000 sq.m	'000 sq.m
1989-90	774	726	n.p.	1,620	n.p.
1990 —					
January	39	21	n.p.	n.p.	394
February	66	64	n.p.	97	530
March	68	64	n.p.	225	472
April	48	56	n.p.	215	n.p.
May	66	60	n.p.	287	n.p.
June	47	44	n.p.	202	n.p.
July	53	54	2,169	202	274
August	60	58	2,069	246	281
September	54	53	1,876	252	261
October	64	97	1,595	221	321
November	60	63	2,255	256	340
December	39	50	1,512	140	207
1991 —					
January	34	29	849	42	204
February	53	59	n.p.	r 168	n.p.
March	56	52	n.p.	202	n.p.
1989-90: July to Mar.	614	567	n.p.	n.p.	3,091
1990-91: July to Mar.	473	509	n.p.	1,727	n.p.

(a) Boards, whether or not agglomerated with resins or other organic binding substances. Excludes fibreboard and fibre paperboard.
 (b) Includes board for partial conversion to other purposes. (c) Excludes decorative laminated sheets simply bonded by means of an adhesive to a substrate.

TABLE 6. STAINLESS STEEL SINKS AND CERAMIC TILES

Period	Sinks (inc. combination sinks) pressed steel standard size stainless (a) (667 56)	Glazed ceramic flags and paving, hearth or wall tiles and glazed ceramic mosaic cubes (662 45)
	number	'000 sq.m
1987-88	276,243	n.s.
1988-89	300,137	n.a.
1989-90	285,461	n.p.
1990 —		
January	7,697	n.p.
February	20,366	309
March	21,358	285
April	18,756	229
May	25,625	289
June	27,306	n.p.
July	19,138	229
August	22,296	296
September	16,518	245
October	25,643	316
November	28,382	323
December	19,339	192
1991 —		
January	8,556	151
February	23,271	r 283
March	19,913	262
1989-90: July to Mar.	213,774	n.p.
1990-91: July to Mar.	183,156	2,296

(a) Excludes enamelled or galvanized sinks.

EXPLANATORY NOTES

Introduction

This publication is one of a series of ten 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. 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:

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

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

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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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