



**Australian
Bureau of
Statistics**

Manufacturing Production Australia

Building Materials and Fittings

December 1991

Catalogue No. 8361.0

EMBARGOED UNTIL 11.30 A.M. 24 FEBRUARY 1992

MANUFACTURING PRODUCTION, AUSTRALIA
BUILDING MATERIALS AND FITTINGS
DECEMBER 1991

IAN CASTLES
Australian Statistician

© Commonwealth of Australia 1992

Printed in Australia by P.J. GRILLS, Commonwealth Government Printer, Canberra

CONTENTS

<i>Table</i>	<i>Page</i>
1. Clay bricks	1
2. Terracotta and concrete roofing tiles	1
3. Portland cement, portland cement clinker, concrete blocks, bricks and pavers and refractory construction materials	2
4. Ready mixed concrete	2
5. Particle boards and similar boards and sheets	3
6. Stainless steel sinks and ceramic tiles	3
. . . Explanatory Notes	4

INQUIRIES

- *for further information about statistics in this publication and the availability of related unpublished statistics, contact Vaughn Moore on Melbourne (03) 615 7635 or any ABS State office.*
 - *for information about other ABS statistics and services please refer to the back page of this publication.*
-

TABLE 1. CLAY BRICKS
(million)

Period	NSW and ACT	Vic.	Qld	Other States	For structural purposes (662.46.47)			For other purposes (incl. pavers) (662.48)
					Australia			
					Original	Seasonally adjusted (a)	Trend (b)	
1988-89	786	473	351	564	2,175	..	..	183
1989-90	756	476	308	536	2,077	..	..	258
1990-91	725	375	278	387	1,765	..	..	225
1990 —								
October	71	39	28	37	175	159	154	19
November	64	34	22	36	156	151	150	20
December	54	26	19	30	129	154	147	16
1991 —								
January	36	14	16	23	89	128	144	17
February	58	30	21	28	137	147	142	16
March	64	28	22	31	146	140	140	22
April	64	33	23	30	151	145	139	20
May	65	30	25	35	156	138	137	17
June	57	28	22	22	129	132	135	20
July	59	26	27	34	146	133	r 134	21
August	58	25	24	34	141	132	135	22
September	62	24	25	27	137	136	137	23
October	60	31	27	37	155	141	r 140	23
November	60	27	24	36	147	145	r 142	23
December	53	22	20	33	128	146	145	22
1990-91: July to Dec.	380	211	148	217	957	..	..	113
1991-92: July to Dec.	352	157	146	201	855	..	..	133

(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)	
1988-89	7,474	5,958	4,541	6,828	3,715	21,085	24,801
1989-90	7,547	5,473	4,260	5,881	4,343	18,819	23,161
1990-91	7,245	4,296	2,733	5,546	3,898	15,922	19,820
1990 —							
October	702	456	254	556	380	1,588	1,968
November	669	349	261	486	347	1,418	1,765
December	520	260	200	368	245	1,103	1,348
1991 —							
January	339	108	135	245	162	666	828
February	631	352	225	496	304	1,400	1,704
March	649	393	204	473	318	1,401	1,719
April	531	314	221	425	306	1,186	1,492
May	778	439	255	551	399	1,624	2,023
June	490	352	210	470	347	1,175	1,522
July	654	368	232	602	378	1,479	1,857
August	612	272	232	567	321	1,362	1,683
September	675	270	237	553	312	1,423	1,735
October	755	349	259	662	350	1,675	2,025
November	672	332	259	611	310	1,565	1,875
December	543	253	231	459	216	1,270	1,486
1990-91: July to Dec.	3,826	2,338	1,483	2,886	2,062	8,471	10,533
1991-92: July to Dec.	3,910	1,845	1,450	3,455	1,887	8,773	10,660

(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, 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) (663.65)
	Original	Seasonally adjusted (a)	Trend (b)			
1988-89	6,901	..	..	n.a.	n.a.	
1989-90	7,075	..	..	5,885	135	
1990-91	6,110	..	..	5,599	136	1,902
1990 —						
October	584	536	526	497	11	192
November	576	525	517	487	11	193
December	508	516	511	450	9	130
1991 —						
January	350	491	506	465	9	97
February	470	494	501	397	9	160
March	523	507	497	448	9	146
April	471	489	491	394	9	146
May	534	507	484	509	12	179
June	436	456	r 477	467	9	131
July	495	479	r 470	419	10	153
August	486	454	466	486	11	141
September	463	449	r 465	348	9	148
October	535	485	r 464	478	10	167
November	532	483	r 463	459	r 9	167
December	430	438	464	413	9	127
1990-91: July to Dec.	3,326	..	..	2,920	79	1,042
1991-92: July to Dec.	2,941	..	..	2,602	59	902

(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
1988-89	5,287	4,364	4,086	1,123	1,642	364	94	282	17,242
1989-90	5,476	4,351	3,922	1,117	1,400	315	89	271	16,941
1990-91	5,076	2,971	3,512	951	1,042	270	94	207	14,123
1990 —									
October	489	289	349	95	101	25	11	21	1,381
November	545	286	339	89	107	26	9	22	1,422
December	385	223	247	68	78	20	6	16	1,044
1991 —									
January	295	153	207	60	72	19	5	10	821
February	402	247	251	79	78	25	4	20	1,106
March	427	231	286	81	86	23	3	15	1,153
April	368	234	275	74	76	23	6	13	1,069
May	409	251	282	86	85	27	9	18	1,166
June	342	166	282	65	71	17	12	14	968
July	375	194	317	72	79	24	11	15	1,086
August	429	178	323	68	92	18	9	14	1,132
September	399	172	317	67	80	21	8	17	1,082
October	433	236	336	84	94	26	12	23	1,244
November	444	222	339	80	86	23	11	21	1,224
December	305	174	245	64	69	16	9	14	896
1990-91: July to Dec.	2,832	1,689	1,929	507	575	135	55	117	7,841
1991-92: July to Dec.	2,385	1,177	1,876	435	499	129	59	104	6,664

(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 sheeting 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
1985-90	768	400	n.p.	1,620	4,037
1990-91	625	382	26,705	2,120	n.p.
1990 —					
October	64	65	1,897	221	321
November	60	37	2,654	256	340
December	39	25	1,711	140	207
1991 —					
January	34	26	1,104	42	204
February	53	29	n.p.	168	n.p.
March	56	31	n.p.	158	n.p.
April	46	21	n.p.	156	n.p.
May	59	29	2,649	147	n.p.
June	47	28	2,252	134	n.p.
July	59	39	2,634	128	n.p.
August	55	33	2,973	165	n.p.
September	53	33	2,422	117	n.p.
October	69	42	2,819	133	n.p.
November	56	36	2,765	154	n.p.
December	39	25	2,312	124	n.p.
1990-91: July to Dec.	330	218	13,015	1,316	1,685
1991-92: July to Dec.	331	208	15,925	821	n.p.

(a) Boards, whether or not agglomerated with resins or other organic binding substances. Excludes fibreboard and fibre paperboard.
 (b) Includes board for subsequent conversions 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) (697.56)	Glazed ceramic flags and paving, hearth or wall tiles and glazed ceramic mosaic cubes (662.45)
	number	'000 sq.m
1988-89	300,137	n.a.
1989-90	285,461	n.p.
1990-91	248,927	3,248
1990 —		
October	25,643	316
November	28,382	323
December	19,339	192
1991 —		
January	8,556	151
February	23,271	283
March	19,913	262
April	20,370	284
May	25,832	370
June	19,569	298
July	17,720	357
August	17,984	320
September	19,959	299
October	23,499	350
November	21,784	304
December	13,046	238
1990-91: July to Dec.	131,416	1,600
1991-92: July to Dec.	113,992	1,869

(a) Excludes enamelled or galvanised 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

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

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

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

Manufacturing Production, Australia, Plastics, Rubber, Paints, Detergents and Industrial Chemicals (8362.0) — issued monthly

Manufacturing Production, Australia, Transport Equipment (8363.0) — issued monthly

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

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

Manufacturing Production, Australia, Wood and Wood Products (8369.0) — 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

- n.p. not available for separate publication (but included in totals where applicable)
- . . . not applicable
- r revised since previous issue
- n.a. not available



For more information ...

The ABS publishes a wide range of information on Australia's economic and social conditions. A catalogue of publications and products is available from any of our Offices (see below for contact details).

Information Consultancy Service

Special tables or in-depth data investigations are provided by the ABS Information Consultancy Service in each of our Offices (see below for contact details).

Electronic Data Services

A growing range of our data are available on electronic media. Selections of the most frequently requested data are available, updated daily, on DISCOVERY (Key *656#). Our TELESTATS service delivers major economic indicator publications ready to download into your computer on the day of release. Our PC-AUSSTATS service enables on-line access to a data base of thousands of up-to-date time series. Selected datasets are also available on diskette or CD-ROM. For more details on our electronic data services, contact Information Services in any of our Offices on the numbers below.

Bookshops and Subscriptions

There are over 500 titles available from the ABS Bookshops in each of our Offices. You can also receive any of our publications on a regular basis. Join our subscription mailing service and have your publications mailed to you in Australia at no additional cost. Telephone our Publications Subscription Service toll free on 008 02 06 00 Australia wide.

Sales and Inquiries



SYDNEY (02) 268 4611
MELBOURNE (03) 615 7000
BRISBANE (07) 222 6351
PERTH (09) 323 5140

ADELAIDE (08) 237 7100
HOBART (002) 20 5800
DARWIN (089) 81 3456
CANBERRA (06) 252 6627



Information Services, ABS, PO Box 10, Belconnen ACT 2616
or any ABS State office.

