



**Australian
Bureau of
Statistics**

July 1989
**Production of Household
Appliances and Electrical
Equipment, Australia**

*(Previously: Production of Electrical Appliances,
Australia)*

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**PRODUCTION OF HOUSEHOLD APPLIANCES
AND ELECTRICAL EQUIPMENT, AUSTRALIA
JULY 1989**

*(Previously: Production of Electrical Appliances
Australia)*

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NOTE

As indicated in paragraph 3 of the Explanatory Notes, the July statistics are based on a revised commodity classification and this has affected the comparability of the data for some items.

TABLE 1. CLOTHES WASHING AND DRYING MACHINES AND DISH WASHING MACHINES (number)

Period	Household or laundry type clothes washing machines			Clothes drying machines (c) (775.12)	Dish washing machines -domestic (775.30)
	Original (775.11)	Seasonally adjusted (a)	Trend (b)		
1986-87	400,248	..	..
1987-88	394,313	..	..
1988-89	396,535	..	..
1988—					
May	30,966	30,508	29,724		
June	28,285	27,129	29,875		
July	29,588	27,606	30,409		
August	36,995	33,182	31,241		
September	38,509	34,945	32,153		
October	32,289	31,441	32,569		
November	36,747	32,853	32,505		Not available prior to July 1989
December	33,397	36,023	32,347		
1989—					
January	11,792	24,452	32,522		
February	37,554	34,999	33,189		
March	36,050	34,373	33,930		
April	33,299	36,190	34,163		
May	38,479	36,447	33,719		
June	31,836	31,174	32,713		
July	30,810	29,885	31,530	n.p.	n.p.

(a) See paragraph 6 Explanatory Notes. (b) See paragraph 7 to 10, Explanatory Notes. (c) Each of a dry linen capacity not exceeding 10 kg.

TABLE 2. REFRIGERATORS AND FREEZERS ('000)

Period	Refrigerators-domestic						Freezers-domestic (upright and chest) (775.22)
	Twin door			Total		Trend (b)	
	Single door (775.23)	Frost free (775.24)	Other (775.25)	Original	Seasonally adjusted (a)		
1986-87	105,089	70,360	113,887	289,336	..	..	107,204
1987-88	133,049	87,580	165,120	385,749	..	..	104,233
1988-89	120,190	102,331	157,108	379,629	..	..	108,731
1988—							
May	10,683	9,057	16,078	35,818	35,640	33,675	9,617
June	11,002	8,169	15,689	34,860	33,002	33,259	8,117
July	8,003	12,311	9,891	30,205	30,926	32,063	8,949
August	12,497	12,542	11,185	36,224	31,543	30,430	9,834
September	13,479	8,762	14,208	36,449	30,741	28,995	10,170
October	9,164	9,462	10,205	28,831	27,475	28,378	9,333
November	5,712	10,070	10,701	26,483	23,402	28,742	10,640
December	6,966	7,159	12,674	26,799	29,994	29,906	8,237
1989—							
January	7,059	5,419	10,374	22,852	35,600	31,497	8,117
February	10,805	8,590	15,713	35,108	33,657	33,160	8,835
March	10,683	6,030	13,994	30,707	34,204	34,408	9,009
April	9,763	6,221	14,568	30,552	32,927	34,933	8,151
May	13,789	8,185	17,504	39,478	36,841	34,950	10,061
June	12,270	7,580	16,091	35,941	34,895	n.s.a.	7,393
July	10,766	9,181	15,193	35,140	35,747	n.s.a.	8,676

(a) See paragraph 6 Explanatory Notes. (b) See paragraph 7 to 10 Explanatory Notes.

TABLE 3. ELECTRIC KETTLES, SPACE HEATERS, FANS AND AIR CONDITIONERS
(number)

Period	Electric space heating and soil heating apparatus (b)		Electric fans (743 42,44)	Air conditioning machines(a)		
	Kettles (775 99)	(775 82)		Self contained (c) (741 51)	Other	
					Domestic (741 52)	Other (741 54)
1986-87	422,084	603,350				
1987-88	623,903	580,315				
1988-89	605,473	594,631				
1988—						
May	58,324	107,796				
June	45,366	44,393				
July	28,182	21,320				
August	49,843	17,043				
September	49,331	4,520				
October	59,014	16,624				
November	58,112	n.p.				
December	65,994	n.p.				
1989—						
January	24,913	n.p.				
February	51,009	102,405				
March	54,702	97,349				
April	54,294	111,736				
May	47,228	98,592				
June	62,851	62,906				
July	43,095	23,532	58,444	n.p.	6,455	1,061

Not available prior to July 1989

(a) Comprises a motor driven fan and elements for changing the temperature and humidity. Excludes automotive types. (b) Excludes soil heating apparatus prior to July 1989. (c) Window or wall types.

TABLE 4. COLOUR TELEVISION SETS(a)
(number)

Period	Less than 38 cm (761.11)	38cm but less than 48 cm (761.12)	48cm but less than 53 cm (761.13)	53cm but less than 62 cm (761.14)	62cm but less than 70 cm (761.15)	70cm and over (761.16)	Total		
							Original	Seasonally adjusted (b)	Trend (c)
1986-87							210,590	..	..
1987-88							176,756	..	..
1988-89	—	n.p.	94,499	n.p.	55,235	n.p.	162,398	..	..
1988—									
May							12,899	12,102	11,639
June							12,646	12,223	11,771
July	—	n.p.	6,408	n.p.	2,694	437	11,141	10,794	11,851
August	—	n.p.	9,000	n.p.	4,350	73	14,145	12,524	12,081
September	—	n.p.	7,285	n.p.	4,408	447	13,973	11,874	12,526
October	—	n.p.	8,371	n.p.	4,483	483	14,117	13,110	13,004
November	—	n.p.	8,728	n.p.	5,276	n.p.	15,604	13,748	13,468
December	—	n.p.	9,180	n.p.	3,582	n.p.	14,215	14,867	13,881
1989—									
January	—	n.p.	3,270	n.p.	524	n.p.	4,482	13,681	14,182
February	—	n.p.	7,266	n.p.	5,586	—	13,568	13,427	14,341
March	—	n.p.	10,868	—	n.p.	—	16,498	14,573	14,433
April	—	n.p.	8,307	n.p.	5,049	—	13,802	15,748	14,524
May	—	n.p.	7,883	n.p.	7,814	—	16,164	14,494	14,674
June	—	n.p.	7,933	n.p.	n.p.	—	14,689	13,841	14,856
July	—	—	8,113	n.p.	n.p.	—	14,214	14,795	15,067

(a) Colour television sets were previously published using different size categories. See the June 1988 issue of this publication, for previous data. (b) See paragraph 6, Explanatory Notes. (c) See paragraph 7 to 10 Explanatory Notes.

TABLE 7. ELECTRIC MOTORS (a)
('000)

Period	Single phase AC motors								
	Flameproof AC electric motors	Universal AC/DC motors	DC	Over	Over	Over	Over	Over	Over
			motors and generators (b)	Up to and including 37.5W (716.61)	37.5W up to and including 190W (716.62,63)	190W up to and including 380W (716.64,65)	380W up to and including 746W (716.66,67)	746W up to and including 3.0kW (716.68,69)	3.0kW up to and including 3.0kW (716.70)
1986-87	(716.82,83,84)	(716.85,86)	88,89,91	(716.61)	(716.62,63)	(716.64,65)	(716.66,67)	(716.68,69)	(716.70)
1987-88									
1988-89									
1988—									
May									
June									
July									
August									
September									
October									
November									
December									
1989—									
January									
February									
March									
April									
May									
June									
July	n.p.	n.p.	n.p.	n.p.	99.1	37.1	30.2	n.p.	—

Not available separately prior to July 1989

TABLE 7. ELECTRIC MOTORS (a) — continued
('000)

Period	Multiphase AC Motors					Total electric motors			
	Up to and including 0.19kW (716.71)	Over 0.19kW up to and including 1.9kW (716.72,73)	Over 1.9kW up to and including 7.5kW (716.74,75)	Over 7.5kW up to and including 45kW (716.76,77)	Over 45kW up to and including 132kW (716.78,79)	Over 132kW (716.81)	Original	Seasonally adjusted (c)	Trend (d)
		DC motors and generators (b)	Up to and including 37.5W (716.61)	37.5W up to and including 190W (716.62,63)	190W up to and including 380W (716.64,65)					380W up to and including 746W (716.66,67)
1986-87							2,523	..	..
1987-88							2,844	..	..
1988-89							3,077	..	..
1988—									
May							262	268	255
June							269	255	257
July							252	246	254
August							286	259	248
September							294	253	244
October							249	216	244
November							302	253	249
December							240	248	256
1989—									
January							131	272	263
February							285	295	270
March							246	253	272
April							230	260	269
May							289	283	263
June							273	260	257
July	n.p.	3.66	n.p.	0.88	n.p.	n.p.	240	242	250

(a) Includes those made and incorporated in manufacturers own products. (b) Excludes those for aircraft, motor vehicles, off-highway trucks, materials handling trucks and tractors. (c) See paragraph 6, Explanatory Notes. (d) See paragraph 7 to 10 Explanatory Notes.

TABLE 8. ELECTRICAL POWER TRANSFORMERS FOR TRANSMISSION AND DISTRIBUTION OF POWER(a)
 (Total kVA)

Period	Up to and including 63 kVA		Over 63kVA up to and including 500kVA	Over 500kVA up to and including 1,000 kVA	Over 1,000 kVA up to and including 10,000 kVA	Over 10,000 kVA	Total	
	Single phase (771.13)	Multi phase (771.15)	(771.17)	(771.19)	(771.32)	(771.34)		
1986-87			993,874	1,441,488	4,390,500	8,395,724		
1987-88			890,098	1,466,468	4,913,002	8,559,212		
1988-89			708,846	1,090,533	2,760,500	6,290,420		
1988—								
May				73,652	89,950	491,000	813,393	
June				44,132	143,106	459,501	781,124	
July				37,752	122,645	65,000	349,516	
August				57,002	138,800	496,500	832,283	
September				61,502	101,070	161,000	466,656	
October				57,634	77,940	544,000	817,903	
November				65,252	96,595	145,000	564,395	
December				42,704	81,980	165,000	421,504	
			Not available separately prior to July 1989					
1989—								
January				58,002	39,500	105,000	267,518	
February				56,133	107,146	45,000	371,376	
March				69,052	71,195	254,000	511,761	
April				73,302	95,327	194,000	517,129	
May				57,801	98,935	100,000	415,773	
June				72,710	59,400	486,000	754,606	
July	13,458	10,369	151,203	67,757	84,502	176,000	503,289	

(a) Includes those made for incorporation by manufacturers in own products. Includes chokes and ballasts, prior to July 1989. Dual rating transformers are classified according to the maximum capacity at which they can operate as constructed at the time of manufacture.

TABLE 9. BATTERIES
 (number)

Period	Lead-acid batteries, dry charged and wet cell			
	S.L.I. automotive, new		Traction 2 volt cells, new (778.16)	Non- rechargeable batteries(a) (778.11)
	6 volt (778.14)	12 volt (778.15)		
1986-87	107,814	2,342,798		
1987-88	94,613	2,280,135		
1988-89	n.p.	n.p.		
1988—				
May	8,037	215,360		
June	7,309	268,108		
July	5,982	229,812		
August	14,275	225,812		
September	7,579	259,849		
October	8,696	182,594		
November	4,759	160,108		
December	2,344	122,353		
			Not available prior to July 1989	
1989—				
January	3,994	109,858		
February	4,675	184,024		
March	4,956	230,645		
April	8,202	215,124		
May	3,018	228,190		
June	n.p.	n.p.		
July	n.p.	219,083		

(a) Quantity reported is the number of cells.

TABLE 10. OTHER ELECTRICAL APPLIANCES AND EQUIPMENT

Period	Phonograph records and cassette tapes			Electrodes etc. for electric arc welding(a) (699.58)	Liquid supply or production meters, including calibration meters therefor (excluding reconditioned) (873.13)
	Conventional solid discs		Audio cassette tapes pre- recorded (898.62)		
	45 r.p.m. (898.72,74)	33 r.p.m. (898.74)			
		— '000 —		'000kg	number
1986-87	7,391	14,335	21,426	14,571	204,476
1987-88	8,104	14,910	27,118	13,601	244,464
1988-89	8,407	13,403	29,621	13,001	290,044
1986—					
June qtr	1,983	3,071	4,500	4,259	48,653
September qtr	1,778	3,317	4,643	4,100	53,425
December qtr	2,240	4,974	7,313	2,757	49,288
1987—					
March qtr	1,450	2,829	4,787	3,722	45,540
June qtr	1,923	3,215	4,683	3,992	56,223
September qtr	2,136	3,566	6,435	4,307	49,462
December qtr	2,314	4,856	8,492	2,771	51,203
1988—					
March qtr	1,743	3,127	5,867	3,412	54,870
June qtr	1,912	3,361	6,324	3,110	88,929
September qtr	1,935	3,602	7,685	3,507	76,709
December qtr	2,255	4,558	9,558	3,134	75,223
1989—					
March qtr	1,729	2,686	5,604	2,853	63,070
June qtr	2,489	2,556	6,774	3,507	75,042

(a) Includes only electrodes for manual welding up to June quarter 1989.

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 11.

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 the Australian Manufacturing Production Commodity Classification (AMPCC), which was developed by the ABS to facilitate greater comparability of manufacturing production commodity statistics with import and export commodity statistics. AMPCC 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

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. The seasonally adjusted figures have been revised following annual reanalysis.

7. 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.

8. 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.

9. Because of the highly irregular nature of some production series it is not possible to discern with reasonable confidence the current direction of the trend at the end of these series. For such highly irregular series the ABS does not provide the last two trend estimates.

10. 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

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

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

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

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 Building Materials and Fittings, Australia (8361.0) — 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 Metal Products, Australia (8367.0) — issued monthly

Production of Energy, Australia (8368.0) — issued monthly

Manufacturing Commodities : Selected Principal Articles Produced, Australia 1986-87, Preliminary (8356.0)

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

12. 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 for any ABS office.

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- n.y.a. not yet available
- n.p. not available for separate publication (but included in totals where applicable)
- nil or rounded to zero
- .. not applicable
- r revised since previous issue

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