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Bureau of
Statistics**

July 1990
**Production of Household
Appliances and Electrical
Equipment, Australia**

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**PRODUCTION OF HOUSEHOLD APPLIANCES
AND ELECTRICAL EQUIPMENT, AUSTRALIA
JULY 1990**

IAN CASTLES
Australian Statistician

AUSTRALIAN BUREAU OF STATISTICS

CATALOGUE NO. 8357.0

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TABLE 1. CLOTHES WASHING AND DRYING MACHINES
(number)

Period	Household or laundry type clothes washing machines			Clothes drying machines (c) (775.12)
	Original (775.11)	Seasonally adjusted (a)	Trend (b)	
1987-88	394,313	..	..	
1988-89	396,535	..	..	
1989-90	330,451	..	..	226,985
1989—				
May	38,479	36,389	33,638	Not available prior to July 1989
June	31,836	29,942	32,385	36,721
July	30,810	30,407	30,720	20,133
August	33,239	28,981	29,119	10,363
September	29,166	27,623	28,043	7,164
October	27,984	26,458	27,210	6,471
November	31,463	28,089	26,538	3,919
December	24,654	26,892	25,899	
1990—				
January	12,166	24,894	25,334	5,586
February	25,897	24,265	25,336	15,733
March	27,607	24,764	26,070	19,990
April	23,762	28,284	27,483	22,162
May	30,748	27,853	29,324	43,498
June	32,955	31,811	31,282	35,245
July	38,038	36,077	33,209	18,263

(a) See paragraph 5, Explanatory Notes. (b) See paragraph 6 to 9, Explanatory Notes. (c) Each of a dry linen capacity not exceeding 10 kg.

TABLE 2. REFRIGERATORS AND FREEZERS
(number)

Period	Refrigerators domestic					Freezers-domestic (upright and chest) (775.22)	
	Twin door			Total			
	Single door (775.23)	Frost free (775.24)	Other (775.25)	Original	Seasonally adjusted (a)		Trend(b)
1987-88	133,049	87,580	165,120	385,749	..	..	104,233
1988-89	120,190	102,331	157,108	379,629	..	..	108,731
1989-90	105,488	84,697	156,173	346,358	..	..	98,699
1989—							
May	13,789	8,185	17,504	39,478	35,808	35,035	10,061
June	12,270	7,580	16,091	35,941	34,309	34,747	7,393
July	10,766	9,181	15,193	35,140	35,427	34,255	8,676
August	10,097	10,366	18,460	38,923	33,212	33,255	9,843
September	8,217	9,307	17,319	34,843	31,592	31,671	7,364
October	7,898	9,449	14,908	32,255	30,058	29,785	9,121
November	9,719	8,329	16,388	34,436	29,276	27,851	10,017
December	6,393	3,908	8,818	19,119	23,255	26,274	6,271
1990—							
January	8,527	2,952	6,002	17,481	26,179	25,338	7,644
February	10,107	5,520	10,696	26,323	25,274	25,272	10,005
March	6,952	4,494	11,318	22,764	24,993	25,902	7,345
April	7,925	5,913	8,522	22,360	25,617	26,895	6,847
May	10,871	7,904	15,601	34,376	30,226	27,924	8,279
June	8,016	7,374	12,948	28,338	28,969	n.y.a.	7,287
July	9,473	7,827	12,809	30,109	29,584	n.y.a.	7,100

(a) See paragraph 5, Explanatory Notes. (b) See paragraph 6 to 9, Explanatory Notes.

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

Period	Kettles (775.99)	Electric space heating and soil heating apparatus(b) (775.82)	Electric fans (743.42.44)	Air conditioning machines(a) other than self-contained	
				Domestic (741.52)	Other (741.54)
1987-88	623,903	580,318			
1988-89	605,473	595,176			
1989-90	534,619	419,375	766,214	r21,723	14,331
1989—				Not available prior to July 1989	
May	47,228	98,939		r	
June	62,851	62,833		1,735	1,559
July	43,095	23,532	63,733	1,855	1,401
August	n.p.	20,270	89,755	2,329	1,371
September	33,312	11,909	73,978	2,903	1,685
October	55,231	8,533	84,887	3,123	1,394
November	58,088	5,447	86,337	1,846	1,064
December	51,825	4,919	60,147		
1990—				r	
January	25,096	20,033	32,244	1,819	651
February	42,553	75,860	72,197	1,411	1,092
March	40,285	90,131	50,038	1,285	911
April	26,046	77,512	n.p.	1,033	961
May	56,590	46,168	58,592	1,251	1,158
June	n.p.	35,061	n.p.	1,133	1,084
July	57,668	27,693	44,981	1,359	827

(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.

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)
1987-88	Not available separately prior to July 1988						176,756	...	...
1988-89	—	n.p.	94,499	n.p.	55,235	n.p.	162,398	...	...
1989-90	—	n.p.	86,449	5,429	63,553	n.p.	158,087	...	...
1989—									
May	—	n.p.	7,883	n.p.	7,814	—	16,164	14,612	14,772
June	—	n.p.	7,933	n.p.	n.p.	—	14,689	13,610	14,763
July	—	—	8,113	1,986	4,115	—	14,214	14,890	14,651
August	—	n.p.	12,192	n.p.	4,603	—	19,041	15,585	14,349
September	—	n.p.	7,682	n.p.	6,375	—	14,279	13,129	13,927
October	—	328	8,010	202	6,917	—	15,457	13,611	13,462
November	—	n.p.	8,265	n.p.	5,437	n.p.	16,035	13,535	12,983
December	—	—	4,931	163	5,344	—	10,438	11,672	12,536
1990—									r
January	—	—	n.p.	n.p.	2,286	n.p.	3,840	11,819	12,209
February	—	—	7,352	—	5,925	—	13,277	13,008	12,215
March	—	n.p.	6,896	n.p.	6,602	—	13,696	12,132	12,215
April	—	—	5,588	100	4,346	—	10,034	12,073	12,476
May	—	—	7,865	144	5,997	—	14,006	12,181	12,846
June	—	n.p.	n.p.	27	5,606	—	13,770	13,394	13,681
July	—	n.p.	n.p.	344	7,708	—	14,626	14,801	13,684

(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 5, Explanatory Notes. (c) See paragraph 6 to 9, Explanatory Notes.

TABLE 5. LAWN MOWERS
(number)

Period	Lawn mowers with engine (undercut rotary petrol type) 2 stroke or 4 stroke type		
	Original (721.33)	Seasonally adjusted(a)	Trend(b)
1987-88	279,122	..	..
1988-89	298,286	..	..
1989-90	246,701	..	..
1989—		26,174	25,321
May	12,425	19,593	23,978
June	11,643	19,593	22,591
July	22,879	28,488	21,338
August	24,690	19,245	20,281
September	30,352	20,691	19,477
October	26,464	17,153	19,319
November	29,438	17,944	19,754
December	28,672	24,471	..
1990—		17,968	20,618
January	11,617	18,603	21,421
February	19,061	25,104	21,575
March	21,099	23,143	21,147
April	11,677	20,059	20,340
May	10,297	18,274	n.y.a.
June	10,455	16,182	n.y.a.
July	13,114	..	..

(a) See paragraph 5, Explanatory Notes. (b) See paragraph 6 to 9, Explanatory Notes.

TABLE 6. ELECTRIC AND TELEPHONE CABLE, WIRE AND STRIP

Period	Uninsulated	Insulated				Other (e.g. for communications, electronics and appliances) (c) (773.33) tonnes
	Stranded wire, cables, cordage, ropes, plaited bands, slings and the like, of aluminium (693.13) tonnes	Power transmission and distribution(a)				
		Copper(b)				
		Paper insulated (773.19) tonnes	Otherwise insulated (773.31) tonnes	Other (773.32) tonnes	tonnes	
		tonnes	tonnes	tonnes	tonnes	
1987-88	12,062	2,821	36,802	3,658	10,109	
1988-89	13,935	2,511	42,275	4,741	10,686	
1989-90	7,951	2,613	45,580	6,013	12,680	
1989—			3,921	470	1,050	
May	1,166	211	4,268	534	1,187	
June	1,223	335	4,105	443	1,169	
July	1,183	222	4,293	570	1,114	
August	1,020	221	4,611	658	1,392	
September	870	146	3,902	451	1,096	
October	520	188	4,196	549	1,079	
November	561	203	3,457	551	1,302	
December	583					
1990—		253	1,634	139	216	
January	139	172	3,851	276	856	
February	693	243	4,304	260	1,339	
March	844	169	3,503	1,204	1,053	
April	525	198	4,106	437	1,188	
May	595	363	3,618	475	876	
June	418	201	3,591	375	923	
July	722					

(a) Weight of non-coated conductors from July 1989. (b) Weight of copper content only. (c) Excludes

(a) Includes household and building wiring. Excludes co-axial cable and other co-axial conductors from July 1989. (b) Weight of copper content only. (c) Excludes automotive low voltage. Also excludes aluminium prior to July 1989 and winding wire, co-axial cable and other co-axial conductors from July 1989.

TABLE 7. ELECTRIC MOTORS (a)
(number)

Period	Flameproof AC electric motors (716.82,83,84)	Universal AC/DC motors (716.85,86)	DC motors and generators (b) (716.87, 88,89,91)	Single phase AC motors					Over 3.0kW (716.70)
				Up to and including 37.5W (716.61)	Over 37.5W up to and including 190W (716.62,63)	Over 190W up to and including 380W (716.64,65)	Over 380W up to and including 746W (716.66,67)	Over 746W up to and including 3.0kW (716.68,69)	
1989-90	n.p.	n.p.	319	385,947	937,480	330,134	362,215	n.p.	—
1989—									
July	n.p.	n.p.	n.p.	n.p.	99,080	37,101	30,220	n.p.	—
August	—	n.p.	21	n.p.	107,472	32,825	50,165	n.p.	—
September	n.p.	n.p.	30	33,841	88,593	33,925	49,433	n.p.	—
October	n.p.	n.p.	32	39,592	83,198	28,494	39,099	n.p.	—
November	n.p.	n.p.	20	39,643	81,801	35,676	34,502	n.p.	—
December	n.p.	n.p.	22	26,896	53,233	26,063	28,783	n.p.	—
1990—									
January	n.p.	n.p.	23	17,734	32,906	10,945	13,849	n.p.	—
February	n.p.	n.p.	n.p.	n.p.	77,506	27,279	19,181	n.p.	—
March	n.p.	n.p.	44	31,360	71,710	27,793	29,206	34,725	—
April	n.p.	n.p.	24	n.p.	51,357	15,324	13,967	n.p.	—
May	n.p.	n.p.	32	56,398	89,960	21,962	25,531	n.p.	—
June	n.p.	n.p.	22	n.p.	100,664	32,747	28,279	n.p.	—
July	n.p.	n.p.	19	44,042	83,695	29,748	25,766	n.p.	n.p.

TABLE 7. ELECTRIC MOTORS(a) — continued
(number)

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)
1987-88							2,844,027	..	..
1988-89							3,076,305	..	..
1989-90	2,232	47,858	n.p.	6,825	n.p.	n.p.	2,552,815	..	..
1989—									
May		Not available prior to July 1990					288,762	272,154	261,102
June							272,938	254,145	255,187
July	n.p.	3,657	n.p.	880	n.p.	n.p.	241,418	246,945	247,436
August	n.p.	4,425	n.p.	791	n.p.	n.p.	268,500	234,876	237,916
September	85	5,557	n.p.	462	n.p.	38	266,469	238,951	226,862
October	n.p.	4,075	n.p.	802	37	n.p.	240,871	208,352	216,720
November	210	3,287	2,550	844	n.p.	n.p.	242,282	206,021	208,762
December	96	4,416	n.p.	n.p.	n.p.	n.p.	178,260	195,352	201,666
1990—									r
January	68	2,134	301	102	n.p.	n.p.	99,656	201,476	195,948
February	582	5,611	n.p.	n.p.	n.p.	n.p.	202,000	201,778	193,573
March	n.p.	n.p.	n.p.	582	44	n.p.	210,249	204,969	194,910
April	n.p.	2,604	n.p.	259	29	n.p.	132,769	161,936	198,881
May	163	5,136	n.p.	626	42	n.p.	221,398	199,479	204,755
June	n.p.	n.p.	n.p.	377	n.p.	n.p.	248,943	244,038	211,793
July	n.p.	2,142	n.p.	144	n.p.	40	222,338	218,456	218,459

(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 5, Explanatory Notes. (d) See paragraph 6 to 9, Explanatory Notes.

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

Period	Up to and including 63 kVA		Over 63 kVA up to and including 500 kVA (771.17)	Over 500 kVA up to and including 1,000 kVA (771.19)	Over 1,000 kVA up to and including 10,000 kVA (771.32)	Over 10,000 kVA (771.34)	Total
	Single phase (771.13)	Multi phase (771.15)					
1987-88				890,098	1,466,468	4,913,002	8,560,150
1988-89				708,846	1,090,533	2,760,500	6,289,628
1989-90	177,366	109,356	1,475,309	1873,435	1,022,656	3,774,800	7,432,942
1989—	Not available prior to July 1989			57,801	98,935	100,000	415,589
May				72,710	59,400	486,000	754,510
June				68,850	84,502	176,000	506,400
July	13,662	10,387	152,999	79,800	72,901	498,000	826,915
August	18,403	13,191	144,620	87,910	110,800	258,800	628,077
September	15,261	9,926	145,380	87,910	56,650	216,000	546,908
October	17,526	9,622	159,910	87,200	106,493	176,500	488,540
November	12,419	9,150	113,028	70,950	83,500	66,500	304,113
December	10,211	6,438	101,714	35,750			
1990—				56,280	39,570	50,000	225,938
January	6,542	2,726	170,820	69,260	81,450	807,000	1,124,260
February	22,402	8,629	135,519	95,450	93,050	137,500	446,453
March	16,095	10,683	93,675	65,300	66,300	559,500	839,833
April	15,584	9,333	123,816	82,130	106,750	137,000	489,386
May	13,375	10,923	139,208	74,575	120,690	692,000	1,006,119
June	15,886	8,348	94,620	92,850	75,504	69,000	383,259
July	17,736	8,113	120,056				

(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. OTHER ELECTRICAL APPLIANCES AND EQUIPMENT

TABLE 9. OTHER ELECTRICAL APPENDICES					Liquid supply or production meters, including calibration meters therefor (excluding reconditioned) (873.13)
Period	Phonograph records and cassette tapes		Audio cassette tapes pre- recorded (898.62)	Electrodes etc. for electric arc welding(a) (699.58)	number
	Conventional solid discs				
	45 r.p.m. (898.72)	33 r.p.m. (898.74)			
	'000	'000	'000	'000kg	
1987-88	8,104	14,910	27,118	13,601	244,464
1988-89	8,407	13,403	29,621	13,001	290,044
1989-90	7,687	7,664	25,927	15,054	395,475
1987—				3,722	45,540
March qtr	1,450	2,829	4,787	3,992	56,223
June qtr	1,923	3,215	6,483	4,307	49,462
September qtr	2,136	3,566	8,435	2,771	51,203
December qtr	2,314	4,856	8,492		
1988—				3,412	54,870
March qtr	1,743	3,127	5,867	3,110	88,929
June qtr	1,912	3,361	6,324	3,507	76,709
September qtr	1,935	3,602	7,685	3,134	75,223
December qtr	2,255	4,558	9,558		
1989—				2,853	63,070
March qtr	1,729	2,686	5,604	3,507	75,042
June qtr	2,489	2,556	6,774	3,971	77,099
September qtr	2,187	2,588	7,953	4,014	105,421
December qtr	2,507	2,658	7,476		
1990—				3,637	107,088
March qtr	1,644	1,272	5,285	3,432	105,867
June qtr	1,349	1,146	5,213		

(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 10.

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 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

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. 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.

9. 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

10. 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, 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 Building Materials and Fittings, Australia (8361.0) — issued monthly

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

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

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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