



PRODUCTION BULLETIN NO. 1: ELECTRICAL APPLIANCES AUSTRALIA, NOVEMBER 1986

- PHONE INQUIRIES • *about these statistics*—contact Rod Martin on Canberra (062) 52 5558 or any ABS State office.
• *about other statistics and ABS services*—contact Information Services on Canberra (062) 52 6007, 52 6627, 52 5402 or any ABS State office.
- MAIL INQUIRIES • *write to Information Services*, ABS, P.O. Box 10, Belconnen, A.C.T. 2616 or any ABS State office.
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EXPLANATORY NOTES

Introduction

This publication is one of a series of eight containing monthly and quarterly production statistics. The titles of the other publications of this series are shown in paragraph 7 below.

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 Australian manufacturing statistics. However, in cases where data are derived from sources other than ABS collections no commodity code is shown. In general, where items are combined they have been arranged so as to align production data with import and export commodity items in accordance with the Australian Standard Commodity Classification (ASCC). For further information regarding the ASCC, see the ABS publication *Australian Standard Commodity Classification, Part I: Introduction, Summary Classification and Commodity Keys* (1207.0).

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 'trading-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.

Related publications

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

Production Bulletin No. 2: Clothing and Footwear, Australia (8358.0)—issued monthly

Production Bulletin No. 3: Food, Drink and Tobacco, Australia (8359.0)—issued monthly

Production Bulletin No. 4: Textiles, Bedding and Floor Coverings, Australia (8360.0)—issued monthly

Production Bulletin No. 5: Building Materials and Fittings, Australia (8361.0)—issued monthly

Production Bulletin No. 6: Chemicals and By-products, Australia (8362.0)—issued monthly

Production Bulletin No. 7: Motor Vehicles, Motor Bodies and Trained Vehicles, Australia (8363.0)—issued quarterly

Production Bulletin No. 8: Miscellaneous Products, Australia (8364.0)—issued monthly

Manufacturing Commodities: Selected Principal Articles Produced, Australia, 1984-85, Preliminary (8365.0)

Manufacturing Commodities: Principal Articles Produced, Australia, 1982-83 and 1983-84 (8303.0) (\$4.20)

8. 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 from any ABS office.

Symbols and other usages

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

IAN CASTLES
Australian Statistician

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ELECTRICAL APPLIANCES (number)

Period	Kettles (699.25)	Propeller type fans (complete)a			Radiators, electric fires and room heaters		
		Toasters— domestic (661.22)	Up to and including 20 cm diameter (696.01)	Over 20 cm diameter (696.03,05)	Without visible heating units		
					Heatbanks (incl. midbanks) (651.14,16)	Other heating units(b) (651.18,20)	With visible heating units(b) (651.11)
1983-84	464,830	399,178		614,612	290,493		262,192
1984-85	560,956	326,281		596,610	267,792		238,817
1985-86	457,952	305,809	120,940	558,137	9,075	282,938	..
1985—							
September	58,011	36,606	8,759	50,271	342	1,675	..
October	47,781	32,067	15,266	74,104	360	4,762	..
November	52,248	39,304	10,078	46,470		4,078	..
December	45,263	20,178		56,679		5,219	..
1986—							
January	20,546	18,215		46,558		6,933	..
February	35,090	24,542	14,526	48,219		41,916	..
March	36,619	17,583	11,503	36,099		47,247	..
April	27,270	20,923	12,487	38,551	162	68,079	..
May	32,542	16,212	8,769	42,069	212	39,349	..
June	31,646	36,031	3,300	31,315	223	47,076	..
July	n.p.	31,874	3,702	45,359		32,766	13,762
August	n.p.	34,607		56,336		4,120	3,927
September	n.p.	32,220		52,375		2,543	n.p.
October	n.p.	45,315		78,072		7,461	n.p.
November	n.p.	35,875		80,772		6,160	n.p.
1985-86 : July to Nov.	228,976	152,125	56,650	272,352		35,597	..
1986-87 : July to Nov.	n.p.	179,891		316,616		53,050	n.p.

ELECTRICAL APPLIANCES—continued (number)

Period	Refrigerators—domestic						Freezers— domestic (upright and chest) (657.52)	Clothes washing machines—domestic	
	Single door (657.33)	Twin door		Original	Seasonally adjusted (c)	Original (693.02,04)		Seasonally adjusted (c)	
		Frost free (657.34)	Other (657.35)						
1983-84	93,213	60,482	129,768	283,463	..	153,239	294,041	..	
1984-85	77,384	60,409	113,767	251,560	..	97,482	275,679	..	
1985-86	104,767	80,525	142,447	327,739	..	121,091	281,778	..	
1985—									
September	10,685	7,854	14,665	33,204	29,560	11,581	21,271	20,818	
October	12,839	8,768	16,181	37,788	32,576	14,677	26,023	22,736	
November	10,262	8,843	17,116	36,221	33,463	12,228	24,487	23,445	
December	6,903	6,432	11,957	25,292	23,614	8,571	16,909	21,643	
1986—									
January	7,493	7,116	9,673	24,282	39,447	9,541	11,071	19,874	
February	8,684	6,842	11,178	26,704	26,538	10,212	22,175	21,764	
March	7,066	4,339	10,162	21,567	24,006	8,875	22,696	23,740	
April	8,173	4,946	10,791	23,910	23,216	6,757	24,145	23,783	
May	5,256	3,761	7,525	16,542	18,042	3,580	28,716	26,880	
June	6,438	5,893	7,320	19,651	18,750	7,812	30,601	29,656	
July	7,540	6,131	7,379	21,050	18,071	7,889	36,842	30,568	
August	8,287	6,070	8,696	23,053	22,468	8,431	31,119	28,952	
September	8,169	6,452	9,961	24,582	21,247	10,357	37,289	34,484	
October	9,241	7,232	12,265	28,738	24,645	11,612	44,607	40,188	
November	10,293	6,345	10,455	27,093	25,984	10,335	31,305	30,667	
1985-86 : July to Nov.	54,754	41,196	73,841	169,791	..	65,743	125,465	..	
1986-87 : July to Nov.	43,530	32,230	48,756	124,516	..	48,624	181,162	..	

(a) Excludes fans incorporated in other equipment or used with ducting.
Notes.

(b) Not collected from July 1985 to June 1986 inclusive.

(c) See paragraph 6, Explanatory

**COLOUR TELEVISION SETS AND TELEVISION RECEIVING ANTENNAE
(number)**

Period	Colour television sets(a)				Television receiving antennae (outdoor and loft) (482.75)	
	Over 43 cm up to and incl. 51 cm (647.26)	Over 51 cm up to and incl. 56 cm (647.27)	Over 56 cm (647.28)	Total(b) Original	Seasonally adjusted(c)	
1983-84	123,688	60,755	75,856	260,299	..	220,459
1984-85	132,784	65,934	98,320	297,038	..	233,965
1985-86	112,791	39,266	85,868	237,925	..	262,368
1985—						
September	10,397	4,154	8,614	23,165	22,002	22,764
October	14,092	3,805	5,953	23,850	21,311	16,185
November	10,575	4,819	7,343	22,737	20,552	16,845
December	9,044	2,360	4,089	15,493	19,904	14,123
1986—						
January	5,211	1,138	4,570	10,919	27,834	17,582
February	8,830	3,183	8,546	20,559	20,647	22,491
March	10,271	2,340	7,757	20,368	20,085	25,217
April	7,643	2,690	7,052	17,385	18,131	27,453
May	6,895	3,044	5,967	15,906	14,292	30,300
June	6,536	2,987	5,642	15,165	14,649	26,266
July	7,507	2,822	5,936	16,265	13,102	24,209
August	9,585	4,149	5,400	19,134	17,665	24,364
September	11,111	2,156	6,134	19,401	17,827	25,838
October	10,516	4,211	7,915	22,642	19,734	19,980
November	7,123	3,960	7,770	18,853	18,171	20,927
1985-86: July to Nov.	58,361	21,524	42,245	122,130	..	98,936
1986-87: July to Nov.	45,842	17,298	33,155	96,295	..	115,318

(a) Television with cabinets; excludes televisions combined with radios, etc. (b) There has been no production of colour television sets up to and including 43 cm (647.25) for any of the periods shown. (c) See paragraph 6, Explanatory Notes.

**STORAGE BATTERIES
(number)**

Period	Storage batteries— wet cell(a)—	
	Automotive starting, lighting and ignition (New)	
	6 volt (685.13)	12 volt (685.17)
1983-84	155,263	2,719,144
1984-85	137,120	2,394,831
1985-86	147,463	2,607,717
1985—		
September	16,518	202,223
October	15,645	196,026
November	15,042	253,351
December	12,530	171,641
1986—		
January	5,816	164,914
February	12,156	227,393
March	11,340	205,209
April	11,698	207,042
May	11,052	252,082
June	6,076	223,688
July	14,413	260,408
August	11,482	252,574
September	11,266	216,736
October	11,687	237,853
November	6,562	182,463
1985-86: July to Nov.	76,795	1,155,748
1986-87: July to Nov.	55,410	1,150,034

(a) Includes dry charged batteries, but excludes dry-cell batteries.

**AIR CONDITIONERS
(number)**

Period	Packaged unit air conditioners	
	Capacity	
	Up to and incl. 17.5 kW (657.21)	Over 17.5 kW (657.22, 23)
1983-84	12,980	2,052
1984-85	18,419	n.p.
1985-86	8,977	4,161
1985—		
September	992	411
October	917	506
November	961	448
December	974	239
1986—		
January	756	173
February	497	303
March	552	282
April	515	326
May	508	407
June	757	313
July	648	415
August	748	483
September	1,121	490
October	1,338	491
November	854	483
1985-86: July to Nov.	4,418	2,118
1986-87: July to Nov.	4,709	2,362

ELECTRIC MOTORS(a)
(' 000)

Period	Under 720 W								Total under 720 W	
	Up to and including 16 W (503.13)	Over 16 W up to and including 80 W (503.14, 15)	Over 80 W up to and including 130 W (503.16)	Over 130 W up to and including 190 W (503.22)	Over 190 W up to and including 260 W (503.23)	Over 260 W up to and including 380 W (503.24)	Over 380 W up to and including 570 W (503.25)	Over 570 W and under 720 W (503.26)	Original	Seas. adj. (b)
1983-84	293	510	553	270	126	317		289	2,358	..
1984-85	274	525	481	211	90	272		307	2,161	..
1985-86	186	545	423	110	82	276	191	105	1,918	..
1985—										
September	20.3	60.6	35.9	16.9	5.7	26.2	20.0	7.2	193	170
October	26.1	74.0	36.7	14.4	7.3	32.8	19.4	11.4	222	176
November	24.5	58.4	33.4	10.2	10.5	28.0	18.9	11.5	195	165
December	21.9	43.7	32.9	5.5	5.5	19.0	15.8	9.5	154	162
1986—										
January	12.3	33.3	19.5	1.6	3.3	9.0	6.6	5.3	91	188
February	7.0	44.5	41.4	12.4	7.4	19.2	11.8	9.2	153	156
March	8.4	26.7	36.6	10.6	5.0	17.9	10.3	8.4	124	140
April	n.p.	35.7	37.1	5.5	8.6	28.3	18.0	7.9	147	149
May	n.p.	34.1	30.9	4.4	5.2	19.8	18.8	7.7	125	140
June	5.6	28.4	36.9	6.9	10.0	23.1	16.0	6.9	134	144
July	4.3	45.9	46.5	6.3	9.1	29.9	19.6	10.7	172	155
August	4.7	50.0	35.5	2.5	8.8	34.3	10.2	7.8	154	133
September	9.7	56.0	42.3	3.9	9.3	29.4	18.0	8.4	177	154
October	10.8	66.0	50.5	4.0	9.6	32.6	25.5	10.7	210	166
November	9.8	62.9	44.8	3.3	10.0	30.7	17.9	5.9	185	160
1985-86 : July to Nov.	120.7	299	188	62.9	37.0	140	93.8	49.5	990	..
1986-87 : July to Nov.	39.2	281	220	19.9	46.9	157	91.0	43.5	898	..

ELECTRIC MOTORS (a) — continued
(' 000)

Period	720 W and over							Total 720 W and over		Total electric motors
	720 W and under 1850 W (503.27)	1850 W and under 3710 W (503.28)	371 k W and under 72 k W (503.29)	72 k W and under 371 k W (503.30)	371 k W and under 72 k W (503.31)	72 k W and over (503.32)		Original	Seas. adj. (b)	
1983-84	289	10.8	5.0	4.9	1.54			311	..	2,669
1984-85	285	18.2	8.5	8.1	1.65			322	..	2,483
1985-86	314	19.4	9.6	10.5	0.81	1.20		356	..	2,273
1985—										
September	23.8	1.92	1.08	1.31	0.05	0.12		28.3	27.7	221
October	32.6	2.25	0.94	0.61	0.06	0.10		36.5	30.0	259
November	28.4	1.71	0.91	1.18	0.09	0.10		32.4	26.7	228
December	27.0	1.67	0.39	0.54	0.09	0.09		29.8	28.1	184
1986—										
January	14.8	0.25	0.77	0.54	0.02	0.06		16.4	34.3	107
February	23.3	0.91	0.27	0.66	0.06	0.07		25.2	26.6	178
March	26.7	1.78	1.48	1.16	0.05	0.10		31.3	34.9	155
April	27.7	2.04	0.74	0.87	0.09	0.11		31.6	31.7	179
May	27.3	1.03	0.81	1.07	0.06	0.10		30.4	31.7	155
June	26.8	2.11	0.60	0.47	0.12	0.08		30.2	31.6	164
July	28.7	0.94	0.95	1.17	0.03	0.10		31.9	30.0	204
August	23.6	2.23	0.56	0.89	0.03	0.09		27.4	24.7	181
September	24.1	1.28	0.56	0.97	0.11	0.07		27.1	25.7	204
October	31.8	1.47	0.71	0.90	0.04	0.07		35.0	28.3	245
November	32.4	2.40	0.83	0.56	0.09	0.05		36.3	31.4	222
1985-86: July to Nov.	140	9.64	4.53	5.21	0.33	0.58		161	..	1,151
1986-87: July to Nov.	141	8.32	3.62	4.50	0.29	0.37		158	..	1,056

(a) Includes those made and incorporated in manufacturers' own products. (b) See paragraph 6, Explanatory Notes.

PHONOGRAPH RECORDS, CASSETTE TAPES
 ('000)

Phonograph records and cassette tapes
Conventional stereophonic discs

Period	45 r.p.m. (647.93.94)	33 r.p.m. (647.95)	Cassette tapes pre- recorded (647.98)
1983-84	7,266	16,428	14,329
1984-85	8,094	17,056	21,225
1985-86	8,015	14,423	21,019
1983—			
September qtr	1,772	3,909	3,216
December qtr	1,870	5,461	5,034
1984—			
March qtr	1,585	3,400	2,861
June qtr	2,039	3,658	3,217
September qtr	1,878	3,842	4,648
December qtr	2,185	5,479	6,236
1985—			
March qtr	2,006	3,620	5,196
June qtr	2,026	4,115	5,145
September qtr	2,168	3,664	5,655
December qtr	2,144	4,545	6,197
1986—			
March qtr	1,721	3,142	4,496
June qtr	1,983	3,071	4,672
September qtr	1,778	3,317	4,738

ELECTRODES
 ('000 kg)

Electrodes for manual welding

For mild and alloy steels (523.76)	For 'specials' (incl. stainless steel) (523.77)	For hardfacing applications (523.78)	Water consumption meters (incl. reconditioned) (482.78)
16,064	234	758	236,343
14,621	211	711	215,909
14,891	301	713	186,877
5,073	34.2	231	59,947
3,117	72.4	149	52,423
3,912	66.8	212	54,546
3,962	60.5	167	69,427
4,014	78.6	245	64,082
4,257	47.5	138	54,963
3,176	43.4	187	45,154
3,174	41.5	140	51,710
4,003	59.0	278	47,873
3,239	68.2	129	47,269
3,697	82.4	91	43,082
3,952	91.5	215	48,653
3,826	104.6	169	53,425

**ELECTRICAL POWER FREQUENCIES TRANSFORMERS, CHOKES AND
BALLASTS FOR TRANSMISSION AND DISTRIBUTION OF POWER(a)**
 (total kVA)

Period	Over 1 kVA up to and including 50 kVA Single phase (683.53)	Over 50 kVA up to and including 500 kVA Three phase (683.54)	Over 500 kVA up to and including 1,000 kVA (683.55)	Over 1,000 kVA up to and including 10,000 kVA (683.56)	Over 10,000 kVA (683.57)	Total
1983-84	121,480	65,648	1,024,668	416,138	562,992	8,994,426
1984-85	150,982	59,998	817,963	430,130	760,448	7,488,871
1985-86	158,664	84,319	1,037,620	566,230	1,191,102	7,032,185
1985—						
September	12,381	5,510	68,314	54,400	65,050	661,655
October	12,976	10,345	90,569	61,350	83,500	425,740
November	15,350	7,376	68,635	40,800	145,400	831,311
December	9,583	4,708	62,630	35,030	66,430	308,381
1986—						
January	6,450	8,536	60,343	27,250	39,282	372,361
February	12,935	6,219	88,225	45,950	98,750	397,079
March	11,481	7,873	96,719	49,000	116,180	656,253
April	14,775	6,012	135,092	65,700	102,360	498,339
May	14,269	10,283	104,705	52,000	108,715	590,972
June	17,182	10,251	109,742	42,700	179,935	1,092,810
July	14,152	11,762	125,967	79,385	129,155	817,921
August	19,894	6,751	124,651	44,000	117,855	823,651
September	18,544	6,651	100,073	115,050	84,325	776,143
October	13,919	9,458	133,803	83,550	109,920	934,650
November	13,661	6,989	122,336	58,881	104,125	944,214
1985-86 : July to Nov.	71,989	30,437	380,164	248,600	479,450	3,115,390
1986-87 : July to Nov.	80,170	41,611	606,830	380,866	545,580	4,296,579

(a) Includes those made for incorporation by manufacturers in own products. Excludes audio, input R.F. and higher frequencies types and automotive coils. Dual rating transformers are classified according to the maximum capacity at which they can operate as constructed at the time of manufacture.