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**Household Appliances and
Electrical Equipment**

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AND ELECTRICAL EQUIPMENT
MARCH 1991

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INQUIRIES

- * For further information about statistics in this publication and the availability of related unpublished statistics, contact Kevin Squair (06) 252 5558 or any ABS State Office.
- * for information about other ABS statistics and services please refer to the back page of this publication.

TABLE 1. CLOTHES WASHING AND DRYING MACHINES
(number)

Period	Household or laundry type clothes washing machines (775.11)			Clothes drying machines (c) (775.12)
	Original	Seasonally adjusted (a)	Trend (b)	
1987-88	394,313	..	..	n.a.
1988-89	396,535	..	..	..
1989-90	330,451	..	..	226,985
1990—				
January	12,166	24,894	25,334	5,586
February	25,897	24,265	25,246	15,733
March	27,607	24,764	26,057	19,990
April	23,762	28,284	27,700	22,162
May	30,748	27,853	29,736	43,498
June	32,955	31,811	31,604	35,245
July	38,038	36,077	32,723	18,263
August	39,278	35,211	32,589	8,969
September	27,364	26,631	23,138	4,890
October	33,359	30,315	28,848	5,722
November	31,577	28,617	26,476	4,841
December	20,502	23,036	24,637	3,577
1991—				
January	9,693	19,078	23,441	4,679
February	25,740	24,95	22,720	18,400
March	25,712	25,112	22,633	25,645
1989-90: July to Mar.	242,986	..	..	126,080
1990-91: July to Mar.	251,263	..	..	94,986

(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
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	25,252	10,005
March	6,952	4,494	11,318	22,764	24,993	25,946	7,345
April	7,925	5,913	8,522	22,360	25,617	27,045	6,847
May	10,871	7,904	15,601	34,376	30,226	27,955	8,279
June	8,016	7,374	12,948	28,338	28,969	28,275	7,287
July	9,473	7,827	12,809	30,109	29,584	27,889	7,100
August	9,533	7,700	15,440	32,673	27,636	27,369	8,296
September	8,249	5,870	11,904	26,023	24,527	27,026	6,890
October	9,895	5,194	14,392	29,481	26,040	27,527	6,474
November	11,315	6,648	15,984	33,947	29,378	29,172	9,590
December	8,450	5,135	11,765	25,350	30,546	31,621	7,704
1991—							
January	9,626	5,091	11,183	25,900	37,991	34,336	8,157
February	9,974	8,915	14,951	33,862	32,467	n.y.a.	10,115
March	9,100	9,471	17,289	35,860	43,966	n.y.a.	10,318
1989-90: July to Mar.	78,676	63,506	119,102	261,284	..	..	76,286
1990-91: July to Mar.	85,615	61,851	125,717	273,183	..	..	74,644

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

TABLE 3. COOKING STOVES, OVENS AND RANGES
(number)

Period	Domestic types						Total
	Electric			Gas			
	Ranges(a) fixed and other (775.95)	Wall ovens (775.96)	Cooking tops (775.97)	Standard town (697.36)	LP and TLP (697.37)	Natural (697.38)	
1987-88	115,807	91,931	67,820	n.a.	n.a.	n.a.	n.a.
1988-89	114,339	118,458	n.p.	n.a.	n.a.	n.a.	n.a.
1989-90	118,486	104,106	72,465	24,591	n.p.	67,310	n.p.
1990—							
January	4,594	2,088	2,257	428	n.p.	1,701	n.p.
February	9,065	8,576	6,219	2,386	n.p.	6,724	n.p.
March	11,768	9,147	7,024	2,613	n.p.	7,034	n.p.
April	7,729	7,231	4,913	1,970	n.p.	4,851	n.p.
May	11,843	8,503	6,301	2,219	n.p.	5,480	n.p.
June	10,591	8,643	5,077	1,731	n.p.	4,154	n.p.
July	9,917	8,456	7,056	2,214	n.p.	5,110	n.p.
August	10,373	8,781	6,098	2,258	n.p.	5,358	n.p.
September	9,037	7,617	4,579	2,154	n.p.	5,298	n.p.
October	9,210	8,377	5,121	2,537	n.p.	6,250	n.p.
November	8,563	6,785	4,072	1,807	n.p.	4,767	n.p.
December	8,026	6,976	3,241	2,298	n.p.	5,368	n.p.
1991—							
January	2,405	2,505	868	571	n.p.	1,490	n.p.
February	8,620	8,189	5,671	1,714	2,116	4,615	8,445
March	8,911	8,484	5,107	1,688	1,872	4,339	7,899
1989-90: July to Mar.	88,323	81,729	56,174	18,671	n.p.	52,825	n.p.
1990-91: July to Mar.	75,062	66,170	41,813	17,241	n.p.	42,595	n.p.

(a) Having at least one hotplate and one oven separately heated. Total rating not exceeding 19kW.

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

Period						Total	
	Less than 48 cm (761.11,12)	48cm but less than 53 cm (761.13)	53cm but less than 62 cm (761.14)	62cm and over (761.15,16)	Original	Seasonally Adjusted (b)	Trend (c)
1987-88	n.a.	n.a.	n.a.	n.a.	176,756	..	..
1988-89	n.p.	94,499	n.p.	57,703	162,398	..	..
1989-90	n.p.	86,449	5,429	n.p.	158,087	..	..
1990—							
January	—	n.p.	n.p.	n.p.	3,840	11,819	12,209
February	—	7,352	—	5,925	13,277	13,008	12,100
March	n.p.	6,896	n.p.	6,602	13,696	12,132	12,214
April	—	5,588	100	4,346	10,034	12,073	12,494
May	—	7,865	144	5,997	14,006	12,181	12,849
June	n.p.	n.p.	27	7,708	13,770	13,394	13,144
July	n.p.	n.p.	344	7,086	14,626	14,801	13,325
August	—	9,746	n.p.	7,326	17,077	13,418	13,487
September	—	n.p.	n.p.	6,992	12,767	12,653	13,648
October	—	n.p.	n.p.	7,126	15,662	13,223	13,793
November	—	n.p.	n.p.	8,102	17,507	14,322	13,960
December	—	7,458	60	4,631	12,149	14,469	14,150
1991—							
January	—	4,257	—	888	5,145	15,310	14,287
February	—	9,467	—	4,259	13,726	13,457	14,343
March	—	10,196	—	4,323	14,519	13,949	14,335
1989-90: July to Mar.	n.p.	n.p.	n.p.	n.p.	120,277	..	..
1990-91: July to Mar.	n.p.	n.p.	n.p.	51,355	123,178	..	..

(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 paragraphs 6 to 9, Explanatory Notes.

TABLE 5. ELECTRIC KETTLES, FANS AND AIR CONDITIONERS
(number)

Period	Electric kettles (775.99)	Electric fans (743.42.44)	Air conditioning machines(a) other than self-contained window or wall type	
			Domestic (741.52)	Other (741.54)
1987-88	623,903	n.a.	n.a.	n.a.
1988-89	605,473	n.a.	n.a.	n.a.
1989-90	534,619	767,345	21,591	14,471
1990—				
January	25,096	32,338	1,819	651
February	42,553	72,291	1,411	1,092
March	40,285	50,133	1,221	983
April	26,046	n.p.	965	1,029
May	56,590	58,686	1,251	1,158
June	n.p.	n.p.	1,133	1,084
July	57,668	45,011	1,359	1,072
August	76,081	52,542	1,511	944
September	55,011	41,970	1,272	889
October	57,572	51,069	2,141	1,038
November	69,837	43,812	2,413	1,085
December	66,819	125,667	1,766	811
1991—				
January	20,891	24,711	1,651	1,596
February	50,064	47,360	1,461	1,926
March	19,105	45,280	1,083	914
1989-90: July to Mar.	n.p.	614,105	18,242	11,200
1990-91: July to Mar.	473,048	377,422	14,657	8,275

(a) Comprises a motor driven fan and elements for changing the temperature and humidity. Excludes automotive types.

TABLE 6. WATER HEATERS(a)
(number)

Period	Electric				Solar(b) (741.77)
	Instantaneous (775.75)	Storage and immersion		Gas (741.76,81)	
		Full mains pressure (775.93)	Other (775.94)		
1987-88	n.a.	252,355	n.a.	n.a.	31,421
1988-89	n.a.	n.p.	n.a.	n.a.	35,203
1989-90	15,692	331,572	19,955	187,577	31,102
1990—					
January	801	14,328	468	7,273	1,394
February	1,123	26,924	1,647	16,594	2,571
March	944	26,014	2,417	16,582	2,882
April	816	16,703	1,947	n.p.	1,796
May	1,494	31,363	2,936	n.p.	2,383
June	1,031	25,944	2,588	n.p.	2,707
July	1,241	24,736	2,045	15,490	2,791
August	1,455	26,207	2,192	19,602	2,705
September	1,046	19,655	1,621	13,812	2,331
October	906	24,551	2,338	16,942	1,456
November	768	28,976	1,982	15,228	2,709
December	776	23,965	2,478	13,654	2,472
1991—					
January	882	6,770	244	5,958	1,863
February	604	23,075	1,656	14,801	2,140
March	994	22,170	2,083	14,840	1,601
1989-90: July to Mar.	12,351	257,562	12,484	n.p.	24,216
1990-91: July to Mar.	8,762	200,105	16,639	130,327	20,068

(a) both domestic and non-domestic. (b) Includes systems which also have a conventional backup energy source.

TABLE 7. SPACE HEATERS AND SOLAR COLLECTORS

Period	Non-electric domestic space heaters				Solar collectors(c) (775.52) sq.m
	Electric space heating and soil heating apparatus(a) (775.82)	Solid fuel space heaters (697.61)	Warm air furnaces(b) (697.63)	Gas fires and gas space heaters (697.62)	
	number	number	number	number	
1987-88	580,318	n.a.	28,697	70,381	160,541
1988-89	595,176	n.a.	26,675	64,121	154,136
1989-90	419,375	30,670	31,508	61,403	151,345
1990—					
January	20,033	n.p.	623	1,434	8,379
February	75,860	n.p.	1,949	5,201	11,168
March	90,131	n.p.	2,003	6,290	11,568
April	77,512	n.p.	2,375	6,335	7,424
May	46,168	n.p.	4,017	10,880	9,830
June	35,061	5,655	4,485	9,179	9,954
July	27,693	1,806	4,328	6,971	9,819
August	19,312	763	3,142	4,299	11,739
September	16,685	362	1,592	2,746	11,355
October	15,992	406	1,800	3,848	9,467
November	13,600	470	1,344	2,939	14,538
December	23,215	617	1,117	2,450	12,346
1991—					
January	42,226	802	n.p.	2,502	9,920
February	63,534	2,134	n.p.	4,308	12,897
March	99,872	3,777	2,070	7,595	9,520
1989-90: July to Mar.	260,634	n.p.	20,631	35,009	124,137
1990-91: July to Mar.	322,129	11,137	n.p.	37,658	101,601

(a) Excludes soil heating apparatus prior to July 1989. (b) Includes non — domestic gas fired warm air furnaces prior to July 1989. (c) For Household or industrial water heating purposes (e.g. hot water systems, swimming pool heating). Production figures relate to effective area of aperture.

TABLE 8. LAWN MOWERS
(number)

Period	Lawn mowers with engine (undercut rotary petrol type) 2 stroke or 4 stroke type (721.33)		Trend(b)
	Original	Seasonally adjusted(a)	
1987-88	279,122	..	..
1988-89	298,286	..	..
1989-90	246,701	..	..
1990—			
January	11,617	17,968	20,618
February	19,061	18,603	21,446
March	21,099	25,104	21,730
April	11,677	23,143	21,275
May	10,297	20,059	20,134
June	10,455	18,273	18,846
July	13,114	16,182	17,753
August	22,176	18,450	17,399
September	19,419	13,159	18,003
October	36,327	22,394	19,111
November	33,428	21,499	19,986
December	22,463	19,124	20,329
1991 —			
January	16,884	24,890	20,201
February	14,835	14,458	n.y.a.
March	15,464	19,565	n.y.a.
1989-90 July to Mar.	214,272	..	..
1990-91 July to Mar.	194,110	..	..

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

TABLE 9. ELECTRIC AND TELEPHONE CABLE, WIRE AND STRIP
(tonnes)

Period	Uninsulated Stranded wire, cables, cordage, ropes, plaited bands, slings and the like, of aluminium (693.13)	Insulated			
		Power transmission and distribution(a)			Other (e.g. for communications, electronics and appliances) (c) (773.33)
		Copper(b)		Other (773.32)	
		Paper insulated (773.19)	Otherwise insulated (773.31)		
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
1990—					
January	139	253	1,634	139	216
February	693	172	3,851	276	856
March	844	243	4,304	260	1,339
April	525	169	3,503	1,204	1,053
May	595	198	4,106	437	1,188
June	418	363	3,618	475	876
July	722	201	3,591	375	923
August	875	207	3,962	382	856
September	786	204	3,839	394	886
October	901	157	3,544	361	808
November	893	217	3,696	402	806
December	999	317	2,922	265	883
1991—					
January	463	52	1,190	173	311
February	703	233	2,606	419	799
March	859	264	2,752	279	721
1989-90 July to Mar.	6,413	1,883	34,353	3,897	9,563
1990-91 July to Mar.	7,201	1,852	28,102	3,050	6,993

(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 10. 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	n.a.	n.a.	n.a.	890,098	1,466,468	4,913,002	8,560,150
1988-89	n.a.	n.a.	n.a.	708,846	1,090,533	2,760,500	6,289,628
1989-90	178,419	112,612	1,474,199	870,705	1,051,921	3,557,197	7,245,053
1990—							
January	6,605	2,844	70,872	56,280	39,570	50,000	226,171
February	22,493	8,000	135,599	69,260	81,450	807,000	1,124,702
March	16,148	10,913	93,794	95,450	93,050	137,500	446,855
April	15,679	9,707	123,922	65,300	66,300	850,500	840,408
May	13,425	11,320	139,023	82,130	106,750	137,000	489,648
June	15,983	8,537	92,630	71,825	120,690	692,000	1,001,665
July	17,792	8,769	120,968	92,850	75,504	69,000	384,883
August	19,606	9,574	166,677	100,800	109,558	151,000	557,215
September	13,200	10,205	140,068	66,780	112,004	146,500	488,757
October	16,915	18,190	155,713	74,230	88,553	446,000	799,601
November	16,519	11,438	151,826	85,895	112,008	146,762	524,448
December	10,186	10,637	111,043	59,850	106,654	176,000	474,370
1991—							
January	9609	5,812	58,341	25,250	76,108	190,000	365,220
February	14,299	12,812	114,914	39,300	139,054	80,000	400,379
March	14,141	13,520	87,871	68,200	147,654	440,500	771,886
1989-90 July to Mar.	133,332	83,048	1,118,624	651,450	758,181	2,168,697	4,913,332
1990-91 July to Mar.	132,267	100,957	1,107,421	613,255	967,097	1,845,762	4,766,759

(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 11. ELECTRIC MOTORS (a)
(number)

Period	DC motors and generators (b) (716.87,88,89,91)	Single phase AC motors				Over 746W (716.68,69,70)
		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)	
1989-90	r1,281	397,413	996,787	331,334	364,571	n.p.
1990—	r					n.p.
January	103	17,734	36,461	10,945	15,295	n.p.
February	110	n.p.	80,629	27,279	19,211	n.p.
March	124	31,809	77,110	27,802	29,267	34,919
April	104	n.p.	55,815	15,639	13,987	n.p.
May	112	36,609	92,795	22,726	25,626	n.p.
June	112	n.p.	124,164	32,859	28,357	n.p.
July	102	44,042	83,695	29,748	25,965	n.p.
August	114	50,588	94,697	33,568	34,183	n.p.
September	215	53,109	73,789	23,540	30,265	n.p.
October	152	67,830	91,013	20,243	31,766	n.p.
November	174	56,575	73,809	21,823	33,346	n.p.
December	145	37,279	67,029	10,009	28,271	n.p.
1991—						n.p.
January	r44	31,233	58,640	6,780	12,219	n.p.
February	r36	54,197	75,305	15,587	21,892	n.p.
March	143	65,967	83,339	14,561	23,606	n.p.
1989-90 July to Mar.	n.p.	n.p.	723,933	260,110	296,601	n.p.
1990-91 July to Mar.	1,164	460,820	701,316	175,859	241,513	n.p.

TABLE 11. ELECTRIC MOTORS (a) — continued
(number)

Period	Multiphase AC Motors				Total electric motors(c)		
	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 (716.78,79,81)	Original	Trend (e)
1987-88	n.a.	n.a.	n.a.	n.a.	n.a.	2,844,027	..
1988-89	n.a.	n.a.	n.a.	n.a.	n.a.	3,076,305	..
1989-90	2,232	47,858	n.p.	6,825	n.p.	r2,628,571	..
1990—							
January	68	2,134	301	102	n.p.	r104,737	211,748
February	582	5,611	n.p.	582	n.p.	205,349	205,123
March	n.p.	n.p.	n.p.	582	n.p.	216,442	211,006
April	163	2,604	n.p.	259	n.p.	138,175	168,529
May	n.p.	5,136	n.p.	626	n.p.	225,477	203,154
June	n.p.	n.p.	n.p.	377	n.p.	272,713	267,340
July	n.p.	2,142	n.p.	144	n.p.	222,753	218,865
August	n.p.	3,662	2,189	525	n.p.	262,379	228,772
September	207	3,095	n.p.	364	n.p.	221,403	203,949
October	n.p.	2,781	750	331	n.p.	258,054	216,551
November	n.p.	2,805	n.p.	490	44	240,100	205,846
December	168	2,467	n.p.	r184	n.p.	185,921	210,254
1991—							
January	n.p.	961	89	75	n.p.	r126,207	247,173
February	99	1,980	218	149	n.p.	202,037	201,596
March	355	1,999	298	126	n.p.	221,917	235,829
1989-90 July to Mar.	n.p.	n.p.	n.p.	n.p.	n.p.	1,992,204	..
1990-91 July to Mar.	n.p.	21,892	n.p.	2,388	n.p.	1,940,771	..

(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) Also includes flameproof AC electric motors and universal AC/DC motors (Australian Standard Commodity Classification Items 716.82, 83, 84, 85 and 86).

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

TABLE 12. OTHER ELECTRICAL APPLIANCES AND EQUIPMENT

Period	Phonograph records and cassette tapes			Electrodes etc. for electric arc welding(a) (699.58) (873.13)	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)	33 r.p.m. (898.74)			
	'000	'000			
1987-88	8,104	14,910	27,118	13,601	244,464
1988-89	8,407	13,403	29,622	13,001	290,044
1989-90	17,686	17,663	26,357	14,724	395,475
1988—					
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
September qtr	2,187	2,588	8,060	3,885	77,099
December qtr	2,507	2,658	7,578	3,864	105,421
1990—					
March qtr	1,644	1,272	5,398	3,641	107,088
June qtr	1,349	1,146	5,321	3,333	105,867
September qtr	1,394	1,344	8,168	3,846	85,702
December qtr	1,008	1,174	10,018	3,370	66,750
1991—					
March qtr	n.p.	n.p.	6,177	2,323	71,210
1989-90 July to Mar.	6,337	6,518	21,037	11,391	289,608
1990-91 July to Mar.	n.p.	n.p.	24,363	4,539	223,662

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

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 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.

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. 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:

Manufacturing Production, Australia, Preliminary (8301.0) — 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, Building Materials and Fittings (8361.0) — issued monthly

Manufacturing Production, Australia, Plastics, Rubber, Paint, 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)

11. 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 for any ABS office.

Symbols and other usages

- | | |
|--------|--|
| n.y.a. | not yet available |
| n.p. | not available for separate publication (but included in totals where applicable) |
| n.a. | not available |
| .. | not applicable |
| r | revised since previous issue |
| — | nil or rounded to zero |
| — | break in continuity of series (where a line is shown between consecutive figures in the same column) |



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