



**Australian
Bureau of
Statistics**

**Manufacturing Production
Australia**

**Household Appliances and
Electrical Equipment**

June 1994 - August 1994

Catalogue No. 8357.0

FINAL ISSUE OF THIS PUBLICATION

This is the final issue of this publication. From 1995 collection and dissemination of items in this publication will be determined by the following factors:

- aggregate monthly Australia-level data for major economic indicator (MEI) items will continue to be released monthly in the bulletin *Manufacturing Production, Australia, Preliminary (8301.0)*. The following commodity items which were previously released in this publication, will continue to be collected and released monthly in 8301.0:

- . clothes washing machines
- . domestic refrigerators
- . hot water heaters
- . insulated wire
- . electric motors

- quarterly Australia-level data for items required for government policy purposes will be collected quarterly. The collection of these items will be fully funded by the ABS and released to users via a special data service.

- other commodity items will only be collected where users fund their collection. Data for these items will be disseminated to users via a special data service.

If you require further information regarding the above issues or the status of particular items, please contact Rod Smith on (03) 615 7635.

EMBARGOED UNTIL 11:30 A.M. 7 NOVEMBER 1994

MANUFACTURING PRODUCTION, AUSTRALIA

**HOUSEHOLD APPLIANCES
AND ELECTRICAL EQUIPMENT
JUNE 1994 - AUGUST 1994**

**IAN CASTLES
Australian Statistician**

© Commonwealth of Australia 1994

Produced by the Australian Government Publishing Service

CONTENTS

<i>Table</i>		<i>Page</i>
1.	Clothes washing and drying machines	1
2.	Refrigerators and freezers	1
3.	Cooking stoves, ovens and ranges	2
4.	Colour television sets	2
5.	Electric kettles, fans and air conditioners	3
6.	Water heaters	3
7.	Space heaters and solar collectors	4
8.	Lawn mowers	4
9.	Electric and telephone cable, wire and strip	5
10.	Electrical power transformers for transmission and distribution of power	5
11.	Electric motors	6
12.	Other electrical appliances and equipment	7
..	Explanatory Notes	8

INQUIRIES

- *for further information about statistics in this publication and the availability of related unpublished statistics, contact Rod Smith on Melbourne (03) 615 7635 or any ABS office.*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			Clothes drying machines (c) (775.12)
	Original (775.11)	Seasonally adjusted (a)	Trend (b)	
1991-92	295,778	..	..	150,134
1992-93	307,671	..	..	149,342
1993-94	325,604	..	..	173,000
1993 —		r	r	
June	27,354	26,158	26,431	14,860
July	27,791	24,836	26,804	17,406
August	32,336	26,985	27,422	11,607
September	34,473	30,376	27,974	10,601
October	29,636	28,957	28,278	8,803
November	29,896	27,181	28,139	9,131
December	25,332	28,253	27,541	8,924
1994 —		r	r	
January	11,761	25,780	26,747	4,480
February	26,445	26,845	26,192	16,263
March	29,374	25,219	26,073	23,501
April	24,002	25,991	26,227	19,687
May	25,160	25,253	26,402	24,032
June	29,398	28,634	26,508	18,565
July	30,175	27,924	26,513	13,639
August	29,999	23,983	26,351	10,385
1993-94: July to Aug.	60,127	..	..	29,013
1994-95: July to Aug.	60,174	..	..	24,024

(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)
	Single door (775.23)	Twin door			Total		
		Frost free (775.24)	Other (775.25)	Original	Seasonally adjusted(a)	Trend(b)	
1991-92	91,842	98,254	182,356	372,452	..	..	95,229
1992-93	93,130	n.p.	n.p.	393,047	..	..	101,476
1993-94	107,239	n.p.	n.p.	459,848	..	..	98,960
1993 —					r	r	
June	5,677	n.p.	n.p.	26,502	31,011	32,646	7,401
July	6,493	n.p.	n.p.	29,856	32,346	33,261	7,113
August	6,687	n.p.	n.p.	32,486	31,210	34,433	7,042
September	7,937	n.p.	n.p.	41,786	42,480	35,753	7,228
October	7,888	n.p.	n.p.	38,778	36,819	36,989	7,759
November	8,468	n.p.	n.p.	41,601	35,458	37,992	10,042
December	8,468	n.p.	n.p.	37,205	39,672	38,710	9,992
1994 —					r	r	
January	9,801	n.p.	n.p.	35,781	37,099	39,395	9,107
February	10,220	n.p.	n.p.	41,553	40,633	40,276	9,185
March	12,133	18,564	18,691	49,388	43,213	40,938	8,370
April	8,614	12,354	13,426	34,394	40,651	40,846	6,885
May	11,478	n.p.	n.p.	38,878	38,003	39,758	8,501
June	9,052	n.p.	n.p.	38,142	42,890	38,072	7,736
July	7,974	12,500	10,741	31,215	36,132	36,104	6,087
August	6,451	n.p.	n.p.	30,794	28,147	33,871	6,937
1993-94: July to Aug.	13,180	n.p.	n.p.	62,342	..	..	14,155
1994-95: July to Aug.	14,425	n.p.	n.p.	62,009	..	..	13,024

(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)		
1991-92	110,637	103,180	64,905	n.p.	38,890	n.p.	167,852	
1992-93	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
1993-94	n.p.	n.p.	n.p.	13,355	199,115	n.p.	212,470	
1993 —								
June	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
July	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
August	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
September	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
October	n.p.	12,921	7,006	n.p.	n.p.	n.p.	n.p.	
November	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
December	n.p.	11,310	n.p.	n.p.	16,028	n.p.	n.p.	
1994 —								
January	n.p.	4,740	1,839	n.p.	6,060	n.p.	n.p.	
February	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
March	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
April	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
May	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
June	n.p.	n.p.	n.p.	1,170	16,357	n.p.	17,527	
July	n.p.	13,923	n.p.	1,317	18,949	n.p.	20,266	
August	n.p.	n.p.	n.p.	1,381	19,514	n.p.	20,895	
1993-94: July to Aug.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
1994-95: July to Aug.	n.p.	n.p.	n.p.	2,698	38,463	n.p.	41,161	

(a) Having at least one hotplate and one oven separately heated. Total rating not exceeding 15kW.

TABLE 4. COLOUR TELEVISION SETS
(number)

Period	less than 53cm (761.11 12.13)	53cm but less than 62cm (761.14)	62cm and over (761.15,16)	Total		
				Original	Seasonally adjusted(a)	Trend(b)
1991-92	94,232	1,358	81,221	176,811	..	..
1992-93	n.p.	n.p.	62,500	154,447	..	..
1993-94	n.p.	n.p.	74,561	163,200	..	..
1993 —					r	r
June	n.p.	n.p.	6,011	12,156	12,040	12,777
July	n.p.	n.p.	6,264	12,299	12,142	12,821
August	n.p.	n.p.	6,446	15,730	13,302	12,869
September	n.p.	n.p.	5,715	17,355	14,365	13,141
October	n.p.	n.p.	6,532	13,768	12,349	13,520
November	n.p.	n.p.	6,964	14,698	13,306	13,885
December	n.p.	n.p.	5,782	12,141	13,222	14,144
1994 —					r	r
January	n.p.	n.p.	2,483	5,371	17,694	14,227
February	n.p.	n.p.	5,421	13,120	13,303	14,238
March	n.p.	n.p.	8,949	15,594	13,122	14,224
April	n.p.	n.p.	5,537	12,071	13,892	14,201
May	n.p.	n.p.	7,773	15,904	14,216	14,251
June	n.p.	n.p.	6,695	15,149	14,864	14,404
July	n.p.	n.p.	6,507	14,904	15,450	14,528
August	n.p.	n.p.	8,936	17,150	13,958	14,845
1993-94: July to Aug.	n.p.	n.p.	12,710	28,029	..	..
1994-95: July to Aug.	n.p.	n.p.	15,443	32,054	..	..

(a) See paragraph 5. Explanatory Notes. (b) See paragraph 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 (b) (741.52)	Other (b) (741.54)
1991-92	n.p.	598,072	r 63,496	r 11,048
1992-93	488,982	749,172	r 95,393	r 12,372
1993-94	n.p.	795,921	147,655	12,825
1993 —			r	r
June	52,311	61,434	7,712	1,090
July	38,064	74,256	3,052	2,355
August	57,895	89,587	12,582	1,057
September	46,950	73,788	15,232	808
October	35,199	47,149	17,759	811
November	39,356	58,705	19,388	961
December	28,939	62,984	12,379	1,020
1994 —			r	r
January	32,230	48,836	13,229	835
February	22,307	65,665	12,378	811
March	9,906	r 53,819	18,304	938
April	23,881	r 53,708	13,192	890
May	42,287	r 78,353	7,220	1,117
June	n.p.	89,071	2,940	1,222
July	28,827	65,034	6,254	1,233
August	39,040	63,020	7,836	1,140
1993-94: July to Aug.	95,959	163,843	15,634	3,412
1994-95: July to Aug.	67,867	128,054	14,090	2,373

(a) Comprises a motor driven fan and elements for changing the temperature and humidity. Excludes automotive types. (b) Data has been revised as a result of increased coverage.

TABLE 6. WATER HEATERS(a)
(number)

Period	Electric				
	Storage and immersion				
	Instantaneous (775.75)	Full mains pressure (775.93)	Other (775.94)	Gas (741.76,81)	Solar(b) (741.77)
1991-92	9,650	291,958	27,685	198,305	25,090
1992-93	10,182	308,690	27,422	215,313	29,554
1993-94	10,393	355,367	28,118	217,626	30,045
1993 —					
June	n.p.	30,699	3,323	21,709	2,719
July	1,252	29,891	2,308	21,854	3,141
August	751	35,825	2,912	20,800	2,287
September	1,097	34,346	2,037	19,889	2,391
October	748	33,726	1,913	19,639	2,679
November	975	32,495	1,819	20,484	3,313
December	793	27,006	2,283	10,506	2,279
1994 —					
January	668	18,561	1,683	10,063	1,246
February	990	28,405	2,285	17,608	2,333
March	446	32,861	r 2,587	22,764	2,552
April	594	23,525	r 2,288	13,672	2,121
May	966	29,626	r 2,693	20,920	2,651
June	1,113	29,100	3,310	19,427	3,052
July	1,212	23,672	2,878	16,909	2,613
August	1,027	26,565	3,023	22,112	2,714
1993-94: July to Aug.	2,003	65,716	5,220	42,654	5,428
1994-95: July to Aug.	2,239	50,237	5,901	39,021	5,327

(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	<i>Non-electric domestic space heaters</i>			
	<i>Electric space heating and soil heating apparatus (775.82)</i>	<i>Solid fuel space heaters(a) (697.61)</i>	<i>Gas fires and gas space heaters (697.62)</i>	<i>Solar collectors(b) (775.32)</i>
	number	number	number	sq.m
1991-92	321,144	18,960	51,633	93,847
1992-93	219,805	26,204	72,496	111,392
1993-94	201,487	24,956	69,406	106,928
<i>1993 —</i>				
June	34,611	5,497	12,995	10,555
July	19,012	1,089	8,755	10,280
August	4,107	449	5,327	8,972
September	1,702	215	2,854	9,059
October	1,356	198	n.p.	9,242
November	3,046	197	3,263	10,312
December	12,793	1,624	4,011	7,627
<i>1994 —</i>				
January	17,750	485	2,699	5,471
February	37,528	2,055	5,892	8,205
March	36,276	4,068	8,748	9,449
April	29,234	5,573	8,904	9,467
May	21,562	6,357	9,424	8,372
June	17,121	2,646	6,901	10,472
July	5,479	840	6,091	7,867
August	4,202	589	3,984	7,787
1993-94: July to Aug.	23,119	1,538	14,082	19,252
1994-95: July to Aug.	9,681	1,429	10,075	15,654

(a) Includes combustion heaters, pot belly stoves and fireplace inserts. (b) 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	<i>Lawn mowers with engine (undercut rotary petrol type) 2 stroke or 4 stroke type (721.33)</i>		
	<i>Original</i>	<i>Seasonally adjusted(a)</i>	<i>Trend(b)</i>
1991-92	215,673	..	..
1992-93	274,263	..	..
1993-94	276,953	..	..
<i>1993 —</i>			
June	7,186	15,044	18,881
July	12,973	18,700	20,000
August	24,185	23,492	22,218
September	39,552	25,637	24,502
October	42,700	27,045	25,915
November	42,345	26,509	25,816
December	31,783	25,949	24,128
<i>1994</i>			
January	18,168	21,867	21,647
February	19,282	18,207	19,468
March	15,988	16,208	18,448
April	8,024	15,842	18,822
May	9,988	20,677	20,203
June	11,965	25,366	21,946
July	14,828	23,113	23,658
August	27,711	25,794	25,265
1993-94: July to Aug.	37,158	..	..
1994-95: July to Aug.	42,539	..	..

(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		Insulated		
	Stranded wire, cables cordage ropes, plaited bands, slings and the like, of aluminium (693.13)	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)		
1991-92	n.p.	1,942	30,200	5,427	8,494
1992-93	n.p.	1,602	34,398	11,421	8,208
1993-94	n.p.	1,433	40,296	8,635	7,870
<i>1993 —</i>					
June	n.p.	119	2,761	861	781
July	n.p.	114	3,623	951	537
August	n.p.	153	3,105	850	820
September	n.p.	166	3,618	976	653
October	n.p.	129	3,669	889	745
November	n.p.	79	3,363	860	761
December	n.p.	79	2,874	639	535
<i>1994 —</i>					
January	n.p.	109	2,041	495	440
February	n.p.	161	3,119	655	659
March	n.p.	117	3,942	624	652
April	n.p.	96	3,268	545	633
May	n.p.	125	3,869	721	772
June	n.p.	105	3,805	430	663
July	n.p.	133	4,107	656	907
August	n.p.	121	3,834	878	848
1993-94: July to Aug.	n.p.	267	6,728	1,801	1,357
1994-95: July to Aug.	n.p.	254	7,941	1,534	1,755

(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. Excludes 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 63kVA up to and including 500kVA (771.17)	Over 500kVA 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)					
	1991-92	116,030	112,363	1,035,556	609,064	1,159,160		3,420,000	6,452,173
1992-93	140,642	137,139	728,186	374,100	913,430	4,183,957	6,477,454
1993-94	184,837	151,303	1,049,599	650,406	1,648,020	4,020,500	7,704,665
<i>1993 —</i>							
June	11,559	12,255	66,555	34,360	60,150	390,000	574,879
July	10,917	11,786	57,161	37,600	110,200	360,000	587,664
August	11,549	10,365	78,825	48,000	119,050	137,500	405,289
September	13,641	12,254	106,720	45,230	110,430	625,000	913,275
October	18,951	12,591	67,569	53,450	115,710	615,000	883,271
November	19,639	17,462	98,140	66,710	79,010	214,000	494,961
December	15,450	12,726	84,680	59,350	95,770	405,000	672,976
<i>1994 —</i>							
January	12,254	9,283	47,388	40,401	113,660	302,000	524,986
February	15,249	14,508	119,810	57,910	178,110	271,000	656,587
March	r 18,138	r 14,487	r 130,443	r 73,315	r 256,995	246,000	r 739,378
April	r 14,976	r 12,063	r 69,081	r 55,250	r 154,850	155,000	r 461,220
May	r 17,669	r 12,373	r 86,747	r 60,140	r 110,135	376,000	r 663,064
June	16,404	11,405	103,035	53,050	204,100	314,000	701,994
July	16,923	12,815	70,005	81,800	62,900	155,000	399,443
August	16,454	14,941	110,235	46,955	122,450	201,000	512,035
1993-94: July to Aug.	22,466	22,151	135,986	85,600	229,250	497,500	992,953
1994-95: July to Aug.	33,377	27,756	180,240	128,755	185,350	356,000	911,478

(a) Includes those made for incorporation by manufacturers in own products. Dual rating transformers are classified according to the maximum capacity at which they can operate at the time of manufacture.

TABLE 11. ELECTRIC MOTORS (a)
(number)

Period	Single phase AC motors					
	DC motors and generators (b) (716.87, 88,89,91)	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 (716.68, 69,70)
1991-92	1,092	793,055	791,497	181,371	240,205	n.p.
1992-93	772	1,089,605	863,431	195,576	539,079	
1993-94	731	1,153,851	919,053	174,633	565,039	
<i>1993</i>						
June	62	n.p.	78,190	17,077	42,931	
July	147	85,357	66,631	13,847	44,024	
August	68	45,823	77,500	16,914	51,777	
September	91	93,807	89,773	18,140	51,744	
October	69	76,125	89,189	19,341	57,483	
November	62	83,229	84,473	19,616	55,731	
December	37	88,757	74,744	14,704	50,121	
<i>1994</i>						
January	33	86,466	42,902	4,554	22,379	
February	36	109,624	75,802	12,837	46,178	
March	19	110,442	89,607	15,931	51,055	
April	61	113,018	76,378	14,574	40,789	
May	25	125,635	77,924	8,634	41,721	
June	83	135,568	74,130	15,541	52,037	
July	16	110,878	80,148	15,992	52,275	
August	14	111,643	88,514	15,177	52,323	
1993-94: July to Aug.	215	131,180	144,131	30,761	95,801	
1994-95: July to Aug.	30	222,521	168,662	31,169	104,598	

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

Period	Total electric motors(c)			
	Total Multiphase AC Motors	Original	Seasonally adjusted (d)	Trend (e)
1991-92	12,248	2,420,850	..	..
1992-93	10,782	2,795,843	..	..
1993-94	16,049	2,928,571	..	..
<i>1993</i>				
June	n.p.	209,230	205,530	235,438
July	1,045	217,455	214,387	223,028
August	1,247	200,499	201,724	216,136
September	881	262,262	224,353	217,922
October	1,434	251,990	229,692	225,649
November	1,536	254,203	231,409	235,668
December	1,444	237,772	256,559	243,900
<i>1994</i>				
January	655	160,985	249,442	249,488
February	1,608	255,517	257,481	254,775
March	2,540	278,814	241,260	260,018
April	1,394	255,055	273,336	265,475
May	675	265,421	268,888	270,537
June	1,590	288,598	288,975	274,797
July	2,860	271,190	276,146	277,788
August	1,560	276,626	269,255	279,212
1993-94: July to Aug.	2,292	417,954	..	..
1994-95: July to Aug.	4,420	547,816	..	..

(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	Audio cassette tapes pre-recorded		Liquid supply or production meters, including calibration meters therefore (excluding reconditioned) (873.13)
	Singles (898.64)	Other (898.66)	
	'000	'000	number
1991-92		36,272	419,544
1992-93	r 4,086		r 371,454
1993-94	4,343		414,160
1991—			
September qtr		10,189	100,801
December qtr		10,523	95,357
1992			
March qtr		7,314	102,875
June qtr		8,246	120,511
September qtr	r 1,189		r 113,946
December qtr	r 1,077		r 71,425
1993—	r	r	r
March qtr	899	6,543	76,777
June qtr	921	6,393	109,306
September qtr	1,228	7,039	100,803
December qtr	1,018	8,560	92,695
1994—			
March qtr	r 808	r 6,681	r 83,557
June qtr	1,290	7,132	137,105

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. As happens with all seasonally adjusted series the seasonal factors are reviewed annually to take account of each additional year's original data. The results of the latest review were used to compile the revised seasonally adjusted and trend estimates contained in this bulletin. Regular subscribers can obtain a complimentary copy of the full revised series 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 quarterly

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

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

Manufacturing Production, Australia, Building Materials and Fittings (8361.0) — issued quarterly

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

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

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

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

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

Manufacturing Production, Australia: Principal Commodities Produced, 1989-90 (8365.0)

Unpublished production data is also available from the ABS Sydney office. Please contact Frank Orton on (02) 268 4245.

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)





For more information ...

The ABS publishes a wide range of statistics and other information on Australia's economic and social conditions. Details of what is available in various publications and other products can be found in the *ABS Catalogue of Publications and Products* available at all ABS Offices (see below for contact details).

Information Consultancy Service

Information tailored to special needs of clients can be obtained from the Information Consultancy Service available at ABS Offices (see Information Inquiries below for contact details).

National Dial-a-Statistic Line

0055 86 400

(Steadycom P/L; premium rate 25¢/21.4 secs.)

This number gives 24-hour access, 365 days a year for a range of statistics.

Electronic Data Services

A large range of data is available via on-line services, diskette, magnetic tape, tape cartridge and CD ROM. For more details about our electronic data services, contact any ABS Office (see below).

Bookshops and Subscriptions

There are over 400 titles of various publications available from ABS bookshops in all ABS Offices (see below Bookshop Sales for contact details). The ABS also provides a subscription service through which nominated publications are provided by mail on a regular basis at no additional cost (telephone Publications Subscription Service toll free on 008 02 0608 Australia wide).

Sales and Inquiries

Regional Offices	Information Inquiries	Bookshop Sales
SYDNEY (02)	268 4611	268 4620
MELBOURNE (03)	615 7000	615 7829
BRISBANE (07)	222 6351	222 6350
PERTH (09)	360 5140	360 5307
ADELAIDE (08)	237 7100	237 7582
HOBART (002)	20 5800	20 5800
CANBERRA (06)	207 0326	207 0326
DARWIN (089)	43 2111	43 2111
National Office		
ACT (06)	252 6007	008 020 608

ABS Email Addresses

Keylink	STAT.INFO/ABS
X.400	(C:AU,A:TELMEMO,O:ABS,SN:INFO,FN:STAT)
Internet	STAT.INFO@ABS. TELEMEMO.AU



Information Services, ABS, PO Box 10, Belconnen ACT 2616

Recommended retail price: \$9.00



2835700006940

ISSN 1035-9346