



**Australian
Bureau of
Statistics**

**March 1989
Production of Energy and Metal
Products, Australia**

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**PRODUCTION OF ENERGY AND
METAL PRODUCTS, AUSTRALIA
MARCH 1989**

IAN CASTLES
Australian Statistician

AUSTRALIAN BUREAU OF STATISTICS

CATALOGUE NO. 8364.0

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TABLE 1. ELECTRICITY
(million kWh)

Period	Thermal(a) (499.46)	Hydro (499.44)	Total	
			Original (499.42)	Seasonally adjusted(b)
1985-86	109,383	14,937	124,320	..
1986-87	116,229	13,892	130,122	..
1987-88	122,145	14,725	136,869	..
1988—				
January	9,894	1,033	10,927	11,728
February	9,687	1,103	10,790	11,517
March	10,063	1,364	11,427	11,481
April	9,755	1,033	10,788	11,544
May	10,342	1,429	11,772	11,443
June	10,805	1,299	12,104	11,182
July	11,153	1,481	12,634	11,033
August	11,287	1,471	12,758	11,633
September	10,393	1,369	11,762	11,741
October	10,849	1,085	11,934	12,145
November	10,417	1,216	11,634	12,286
December	10,609	1,126	11,735	12,462
1989—				
January	10,577	883	11,460	12,327
February	10,327	904	11,231	12,416
March	11,226	999	12,225	12,389
1987-88 : July to Mar.	91,242	10,963	102,206	..
1988-89 : July to Mar.	96,838	10,535	107,374	..

TABLE 1. ELECTRICITY - continued
(million kWh)

Period	N.S.W.(c)	Vic.(c)	Qld.(c)	S.A. and N.T.(c) (499.42)	W.A.(c)	Tas.(c)	Australia
1985-86	47,136	28,048	21,222	9,608	9,894	8,413	124,320
1986-87	47,961	31,135	22,622	9,667	10,320	8,416	130,122
1987-88	49,702	33,343	23,724	10,120	11,114	8,866	136,869
1988—							
January	3,547	2,894	1,987	861	953	686	10,927
February	3,645	2,776	1,915	810	982	662	10,790
March	4,349	2,538	1,932	884	1,008	716	11,427
April	3,881	2,631	1,904	772	894	705	10,788
May	4,660	2,520	2,035	850	941	766	11,772
June	4,748	2,809	1,972	862	934	779	12,104
July	4,983	2,869	2,090	904	975	814	12,634
August	4,975	2,893	2,185	900	982	823	12,758
September	4,456	2,727	2,080	835	912	753	11,762
October	4,031	3,098	2,237	845	952	772	11,934
November	3,989	2,999	2,134	845	956	711	11,634
December	4,126	2,928	2,093	880	1,004	704	11,735
1989—							
January	3,883	2,858	2,083	889	1,049	699	11,460
February	3,801	2,967	1,974	853	995	641	11,231
March	4,075	3,279	2,173	950	1,056	691	12,225
1987-88 : July to Mar.	36,413	25,383	17,812	7,636	8,346	6,616	102,206
1988-89 : July to Mar.	38,317	26,616	19,049	7,901	8,883	6,608	107,374

(a) Includes electricity generation by diesel power stations. (b) See paragraph 6, Explanatory Notes. (c) Statistics relate to generation of electricity within each State and take no account of interchange between States. Furthermore, details for Victoria exclude Victorian entitlements to generation from the Hume Power Station and the Snowy Mountains Hydro-electric Scheme.

TABLE 2. GAS
(million megajoules)TABLE 3.
BROWN
COAL
BRIQUETTES
('000 tonnes)

Period	Gas available for issue through mains								Brown Coal briquettes (26141)
	N.S.W. and A.C.T.	Vic.	Qld	S.A. (434.19)	W.A.	Tas	Australia		
							Original	Seasonally adjusted(a)	
1985-86	95,007	196,248	24,419	86,893	107,010	60	510,337	..	852
1986-87	96,361	191,727	24,219	82,550	126,050	62	520,968	..	811
1987-88	93,685	186,553	27,308	83,101	143,391	54	534,092	..	809
1988—									
January	5,536	10,023	2,049	6,089	11,867	3	35,567	44,345	72
February	7,068	10,311	2,081	6,268	11,965	3	37,696	43,440	72
March	7,624	13,000	2,215	6,783	12,693	4	42,319	44,489	60
April	7,348	11,890	2,185	6,232	11,478	4	39,137	43,298	52
May	8,175	17,811	2,409	6,951	11,710	5	47,062	43,527	43
June	7,999	21,021	2,348	7,522	11,704	6	50,600	44,303	80
July	9,581	22,636	2,531	7,974	12,037	6	54,766	44,117	69
August	9,930	21,803	2,576	8,001	12,332	6	54,647	47,092	76
September	8,742	18,570	2,410	7,004	11,962	5	48,693	45,386	59
October	7,292	14,327	2,336	7,092	12,125	5	43,176	42,230	63
November	7,653	13,020	2,361	6,911	12,363	4	42,311	45,454	70
December	7,189	11,275	2,190	6,800	12,703	4	40,160	47,371	34
1989—									
January	6,416	10,193	2,176	6,482	12,512	3	37,782	46,941	61
February	7,136	10,692	2,127	6,505	11,021	3	37,483	44,601	74
March	7,466	12,118	2,338	7,246	12,821	4	41,992	44,279	64
1987-88 : July to Mar.	70,162	135,831	20,357	62,396	108,499	39	397,283	..	633
1988-89 : July to Mar.	71,403	134,634	21,045	64,016	109,875	40	401,011	..	570

(a) See paragraph 6, Explanatory Notes.

TABLE 4. PETROLEUM REFINERY INPUT AND PRODUCTS(a)
(megalitres)

Period	Input(b)	Auto- motive gasoline	Aviation turbine fuel	Fuel oil	Auto- motive diesel oil	Industrial and marine diesel fuel	Bitumen
1985-86	32,834	15,652	2,684	2,264	8,139	329	539
1986-87	32,959	15,296	2,742	2,274	8,198	240	523
1987-88	34,960	15,995	3,123	2,078	9,399	229	513
1987—							
December	3,085	1,376	348	199	877	18	61
1988—							
January	3,097	1,408	267	181	826	18	37
February	2,939	1,307	269	166	757	13	54
March	2,960	1,411	257	158	830	21	47
April	2,719	1,279	224	178	715	4	47
May	3,005	1,408	257	158	880	14	38
June	3,081	1,312	274	177	784	12	53
July	3,062	1,428	260	179	829	10	29
August	2,943	1,313	231	189	815	19	32
September	3,110	1,309	299	217	800	18	57
October	2,806	1,217	297	215	765	16	45
November	2,781	1,237	336	164	758	20	44
December	3,037	1,353	309	124	817	16	53
1989—							
January	3,251	1,329	333	167	804	21	54
February	2,817	1,299	251	197	772	12	52
1987-88 : July to Feb.	23,037	10,484	2,113	1,393	6,121	173	345
1988-89 : July to Feb.	23,807	10,485	2,316	1,452	6,360	132	366

(a) Produced by Australian refineries from imported and indigenous petroleum. Source: Department of Primary Industries and Energy. (b) Includes the input of crude, enriched crude and other petroleum based feedstock.

TABLE 5. FERROUS METALS
(*000 tonnes)TABLE 6.
CAST IRON
TUBES
(tonnes)

Period	Ferrous metals						Pipes, pipe specials, tubes and fittings; moulded or spun(d) (447.52)
	Pig iron(a)		Raw steel(a)		Blooms and slabs(c) (442.28)	Tinplate (444.63.95)	
	Original (442.04.08)	Seas. adj.(b)	Original (442.71-73)	Seas. adj.(b)			
1985-86	5,925	..	6,826	..	4,446	231	82,195
1986-87	5,783	..	6,387	..	3,670	321	78,566
1987-88	5,455	..	6,093	..	2,660	310	76,946
1988—							
January	365	359	406	414	192	24.0	1,791
February	449	468	475	510	207	22.1	7,421
March	518	500	589	584	250	27.5	8,076
April	447	473	495	529	239	26.2	5,298
May	466	461	484	474	237	24.2	7,273
June	469	468	536	532	214	26.2	7,693
July	493	469	555	521	209	25.2	6,749
August	498	483	565	531	220	31.0	8,654
September	499	499	564	537	217	29.3	7,282
October	519	515	573	566	250	30.0	7,112
November	489	506	569	587	241	29.1	9,153
December	518	514	588	596	239	28.1	5,491
1989—							
January	499	491	546	550	187	26.9	1,021
February	465	506	523	591	207	22.9	8,407
March	488	468	560	555	217	22.8	5,968
1987-88 : July to Mar.	4,074	..	4,579	..	1,970	234	56,682
1988-89 : July to Mar.	4,469	..	5,043	..	1,988	246	59,837

(a) Includes recovery from scrap. (b) See paragraph 6, Explanatory Notes. (c) From rolling and forging of iron and steel (primary mills output). (d) Includes valves and valve parts.

TABLE 7. STEEL WIRE AND WIRE PRODUCTS
(tonnes)

Period	Ferrous barbed wire (481.33)	Ferrous welded wire fabric (481.35; 494.15)	Steel wire nails (481.41)	Steel wool (482.49)
1985-86	12,923	254,358	15,770	1,263
1986-87	13,625	259,262	15,581	1,307
1987-88	n.p.	276,260	17,139	1,323
1986—				
March qtr	2,501	56,741	3,443	323
June qtr	3,781	64,237	3,897	332
September qtr	3,902	64,197	4,378	345
December qtr	3,021	69,432	4,217	331
1987—				
March qtr	2,475	60,426	3,322	305
June qtr	4,224	65,207	3,664	325
September qtr	3,850	66,546	3,911	344
December qtr	3,417	69,475	4,261	360
1988—				
March qtr	3,119	69,519	4,302	298
June qtr	n.p.	70,720	4,665	321
September qtr	n.p.	79,642	5,537	329
December qtr	2,789	81,059	4,828	314
1989—				
March qtr	n.p.	77,689	4,674	298
1987-88 : July to Mar.	10,386	205,540	12,474	1,002
1988-89 : July to Mar.	n.p.	238,390	15,039	941

TABLE 8. NON-FERROUS ROLLED, EXTRUDED AND DRAWN PRODUCTS
(tonnes)

Period	Aluminium and alloy				
	Rods, bars and sections(a) (451.40)	Wire rod(b) (451.61)	Single wire and wire strip drawn from rod (except redrawn) (451.63)	Sheets, plate, strip circles, slugs etc. (c) (451.30)	Foil (451.70)
1985-86	70,207	24,038	17,782	161,890	13,362
1986-87	68,274	20,202	13,839	172,372	15,481
1987-88	75,237	21,363	14,681	176,954	15,968
1988—					
January	2,971	332	279	11,637	877
February	6,659	1,710	988	14,791	1,329
March	6,661	2,284	1,494	15,725	1,439
April	5,526	1,726	1,319	12,690	1,090
May	7,366	1,926	1,189	17,584	1,688
June	7,043	3,153	2,775	16,282	1,551
July	7,057	2,278	1,594	16,497	1,425
August	6,911	2,343	1,840	15,815	1,458
September	7,488	2,763	1,994	14,438	1,401
October	7,242	2,256	1,620	15,284	1,432
November	7,776	1,983	1,554	15,440	1,560
December	5,837	1,888	1,386	11,927	1,242
1989—					
January	3,348	399	1,236	13,105	838
February	6,221	2,279	938	15,533	1,013
March	6,802	2,037	1,207	15,204	1,193
1987-88 : July to Mar.	55,307	14,558	9,398	130,406	11,639
1988-89 : July to Mar.	58,682	18,226	12,369	133,242	11,562

(a) Includes both solid and hollow. (b) Includes wire rod produced and further used for drawing to single wire. (c) Circles, slugs, etc. stamped from sheet or strip purchased, transferred in or imported are not included. Where stamped from sheet or strip produced in the same establishment, the weight of metal included in the statistics is that of the circles, etc. and not the weight of the sheet or strip from which they were stamped. Excludes production of liner aluminium sheet used in the manufacture of other products in the same establishment.

TABLE 8. NON-FERROUS ROLLED, EXTRUDED AND DRAWN PRODUCTS — continued
(tonnes)

Period	Copper and alloy				
	Rods, bars and sections(a)		Single wire and wire strip (b)	Lead and alloy	
	Brass (452.46)	Other (452.16)	Other than brass (452.25)	Sheets, plate, strip, circles, slugs, etc. (c) (453.50)	
1985-86	20,859	4,732	54,588		3,809
1986-87	20,588	4,967	51,089		5,186
1987-88	21,313	5,012	42,291		4,742
1988—					
January	230	149	1,247		177
February	1,922	1,430	13,817		457
March	1,985	363	4,179		460
April	2,127	329	2,789		382
May	1,627	306	3,799		n.p.
June	1,754	333	3,791		n.p.
July	1,786	384	3,315		n.p.
August	1,801	307	4,031		n.p.
September	2,607	386	4,462		n.p.
October	1,975	316	3,800		n.p.
November	1,888	451	3,971		n.p.
December	1,731	350	3,447		n.p.
1989—					
January	435	65	1,096		n.p.
February	1,731	485	13,600		349
March	2,098	457	3,656		454
1987-88 : July to Mar.	15,805	4,044	31,912		3,588
1988-89 : July to Mar.	16,052	3,201	31,378		n.p.

(a) Includes both solid and hollow. (b) Drawn from rod (except redrawn). (c) Circles, slugs, etc. stamped from sheet or strip purchased, transferred in or imported are not included. Where stamped from sheet or strip produced in the same establishment, the weight of metal included in the statistics is that of the circles, etc. and not the weight of the sheet or strip from which they were stamped.

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

Period	Aluminium, stranded (Aluminium content) (464.16)
1985-86	16,739
1986-87	12,072
1987-88	12,062

1988—

January	276
February	790
March	1,399
April	1,110
May	807
June	2,555
July	1,346
August	1,575
September	1,593
October	1,313
November	1,204
December	1,009

1989—

January	r231
February	r1,156
March	903

1987-88 : July to Mar.	7,590
1988-89 : July to Mar.	10,330

TABLE 10. INSULATED ELECTRIC AND TELEPHONE CABLE, WIRE AND STRIP

Power transmission and distribution(b)			Communication electronics and appliance	Automotive and similar low voltage (464.51)
Copper(c)				
Paper insulated (464.28)	Otherwise insulated (464.29)	Aluminium(d) (464.39)	Copper(c) (464.44)	
—tonnes—				
3,705	34,493	3,594	13,700	'000 metres
4,161	36,718	3,765	12,555	99,792
2,820	36,802	3,658	10,109	115,349
n.p.	963	34	361	3,617
n.p.	r3,246	275	636	9,671
n.p.	3,652	254	1,064	8,432
251	2,370	267	692	5,453
224	3,329	426	733	11,046
300	3,308	473	1,096	11,279
250	3,170	348	865	10,629
146	3,468	420	906	15,006
251	3,808	425	1,023	9,632
275	3,135	351	893	9,394
n.p.	3,684	435	974	10,347
n.p.	3,474	490	939	8,736
n.p.	r1,493	r63	221	r12,468
176	4,144	428	877	10,816
223	3,882	380	967	23,858
n.p.	27,795	2,492	7,588	87,571
n.p.	30,258	3,340	7,665	110,886

January	n.p.	963	34	361	3,617
February	n.p.	r3,246	275	636	9,671
March	306	3,652	254	1,064	8,432
April	251	2,370	267	692	5,453
May	224	3,329	426	733	11,046
June	300	3,308	473	1,096	11,279
July	250	3,170	348	865	10,629
August	146	3,468	420	906	15,006
September	251	3,808	425	1,023	9,632
October	275	3,135	351	893	9,394
November	n.p.	3,684	435	974	10,347
December	n.p.	3,474	490	939	8,736

January	r231	n.p.	r1,493	r63	221	r12,468
February	r1,156	176	4,144	428	877	10,816
March	903	223	3,882	380	967	23,858

1987-88 : July to Mar.	7,590	n.p.	27,795	2,492	7,588	87,571
1988-89 : July to Mar.	10,330	n.p.	30,258	3,340	7,665	110,886

(a) For sale or transfer out as such, excludes single wire and single wire strip. (b) Includes household and building wiring. (c) Weight of copper content only. (d) Weight of aluminium content only.

TABLE II. NON-FERROUS REFINED METALS(a)

Period	Copper (452.04)	Lead(b) (453.04)	Tin (456.04)	Zinc (457.04)	Precious metals	
					Silver (455.04)	Gold (455.04)
	'000 tonnes	'000 tonnes	'000 tonnes		kg	
1985-86	163	206	2,208	297	315,337	56,928
1986-87	171	142	784	300	270,608	81,856
1987-88	186	182	501	306	304,426	111,934

1988—

January	16.1	1.0	47	22.6	13,650	8,430
February	14.5	1.5	19	22.6	11,095	10,290
March	17.0	16.8	39	22.6	26,726	9,971
April	10.6	12.9	37	24.7	25,331	9,664
May	19.1	17.0	75	25.3	30,659	10,066
June	14.4	18.4	27	27.2	27,056	9,600
July	15.4	17.0	36	26.2	26,554	13,877
August	16.7	16.5	26	26.7	27,655	12,558
September	13.2	13.9	26	27.2	26,990	14,532
October	17.7	16.3	37	27.5	21,873	11,199
November	20.1	14.8	32	26.1	29,750	10,089
December	21.2	16.6	38	23.7	30,023	11,398

1989—

January	13.2	1.5	28	26.1	5,653	n.y.a.
February	19.9	15.1	25	r21.5	22,067	15,563
March	19.0	19.2	15	23.9	25,361	32,705

1987-88 : July to Mar.	141	135	362	228	221,382	82,604
1988-89 : July to Mar.	156	131	263	230	215,926	n.y.a.

TABLE 12.
LAWNMOWERS

Lawn mowers with engine
(undercut rotary petrol type),
2 stroke or 4 stroke

Seasonally adjusted(c)
Original
(699.51)

number

1985-86	290,239	..
1986-87	276,501	..
1987-88	279,122	..

January	13,350	19,328
February	10,290	24,587
March	21,713	27,343
April	12,336	27,354
May	12,869	31,381
June	15,766	23,583
July	19,544	24,477
August	29,717	24,091
September	37,552	26,534
October	36,185	21,859
November	35,229	19,518
December	34,325	30,145

(a) Primary origin only. Comprises production by establishments classified to either the Manufacturing or Mining Sector. Source: Bureau of Mineral Resources. (b) Includes lead content of lead alloys from primary sources but excludes lead-silver bullion. (c) See paragraph 6, Explanatory Notes.

TABLE 13.
PEDAL CYCLES(a)
(number)

<i>Period</i>	<i>Pedal cycles(a) (611.01)</i>
1985-86	103,661
1986-87	87,453
1987-88	98,911
1986—	
March qtr	18,888
June qtr	12,283
September qtr	26,851
December qtr	33,543
1987—	
March qtr	13,744
June qtr	13,315
September qtr	29,319
December qtr	43,290
1988—	
March qtr	11,758
June qtr	14,544
September qtr	30,581
December qtr	25,841
1989—	
March qtr	6,589
1987-88 : July to Mar.	84,367
1988-89 : July to Mar.	63,011

TABLE 14.
COKE
('000 tonnes)

<i>Metallurgical coke (435.22)</i>
3,534
3,253
3,727
940
874
846
863
779
765
896
936
955
941
978
992
958
2,787
2,928

(a) Complete or packed for final assembly. Excludes tricycles and similar toy vehicles.

EXPLANATORY NOTES

Introduction

1. 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 '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.

Related publications

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

Production of Electrical Appliances, Australia (8357.0) — 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

Manufacturing Commodities : Selected Principal Articles Produced, Australia, 1986-87, Preliminary (8365.0)

Manufacturing Commodities : Principal Articles Produced, Australia, 1983-84 and 1984-85 (8303.0)

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)
- n.y.a. not yet available
- .. not applicable
- r revised since last issue

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