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ELECTRONIC
SERVICES

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TABLE 1. ELECTRICITY
(million kWh)

Period	Thermal (499.46)	Hydro (499.44)	Total	
			Original	Seasonally adjusted(a)
1985-86	109,450	14,931	124,381	..
1986-87	116,230	13,892	130,122	..
1987-88	122,143	14,698	136,840	..
1987—				
September	9,993	1,228	11,221	11,203
October	10,176	1,162	11,338	11,461
November	9,814	1,048	10,861	11,543
December	9,845	1,140	10,985	11,632
1988—				
January	9,894	1,033	10,927	11,728
February	9,687	1,103	10,790	11,517
March	10,061	1,364	11,425	11,479
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	10,466	1,369	11,835	11,814
October	10,849	1,085	11,934	12,145
November	10,417	1,216	11,634	12,286
1987-88 : July to Nov.	51,753	6,295	58,049	..
1988-89 : July to Nov.	54,172	6,623	60,795	..

TABLE 1. ELECTRICITY - continued
(million kWh)

Period	N.S.W.(b)	Vic.(b)	Qld.(b)	S.A. and N.T.(b) (499.42)	W.A.(b)	Tas.(b)	Australia
1985-86	47,136	28,034	21,222	9,608	9,969	8,413	124,381
1986-87	47,961	31,135	22,622	9,667	10,320	8,416	130,122
1987-88	49,675	33,343	23,724	10,118	11,114	8,866	136,840
1987—							
September	4,101	2,760	1,931	821	858	751	11,221
October	3,975	2,848	2,053	820	891	750	11,338
November	3,754	2,771	1,934	821	886	695	10,861
December	3,617	2,897	1,980	843	938	712	10,985
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	882	1,008	716	11,425
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	2,153	835	912	753	11,835
October	4,031	3,098	2,237	845	952	772	11,934
November	3,989	2,999	2,134	845	956	711	11,634
1987-88 : July to Nov.	21,228	14,279	9,998	4,239	4,465	3,839	58,049
1988-89 : July to Nov.	22,432	14,584	10,798	4,329	4,778	3,873	60,795

(a) See paragraph 6, Explanatory Notes. (b) 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)

Gas available for issue through mains										
Period	N.S.W. and A.C.T	Vic.	Qld	S.A. (434.19)	W.A.	Tas	Australia		Brown Cool briquettes (261.41)	
							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	82,996	143,391	54	533,987	..	809	
1987—										
September	8,725	19,123	2,314	7,102	12,109	5	49,379	45,451	86	
October	8,122	15,411	2,396	7,256	12,304	4	45,493	44,555	83	
November	7,109	12,180	2,301	6,648	11,615	4	39,857	43,346	80	
December	6,946	10,825	2,166	6,336	11,682	3	37,958	44,252	69	
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	6,678	12,693	4	42,214	44,379	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	7,145	13,020	2,361	6,911	12,363	4	41,804	44,909	70	
1987-88 : July to Nov.	42,987	91,672	11,846	36,920	60,293	26	243,755	..	361	
1988-89 : July to Nov.	42,690	90,356	12,214	36,982	60,818	26	243,086	..	337	

(a) See paragraph 6, Explanatory Notes.

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

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—							
August	2,959	1,433	259	173	757	14	47
September	2,680	1,291	204	181	698	26	27
October	2,784	1,183	259	180	741	75	44
November	2,813	1,240	261	170	789	6	39
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
1987-88 : July to Oct.	11,261	5,254	966	692	2,941	123	137
1988-89 : July to Oct.	11,921	5,267	1,087	800	3,209	63	163

(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)

Period	Ferrous metals						Pipes, pipe specials, tubes and fittings; moulded or spun(d) (447.52)
	Pig iron(a)		Raw steel(a)				
	Original (442.04.08)	Seas. adj.(b)	Original (442.71.73)	Seas. adj.(b)	Blooms and slabs(c) (442.28)	Tinplate (444.63.95)	
1985-86	5,925	..	6,826	..	4,446	312	82,195
1986-87	5,783	..	6,387	..	3,670	292	78,622
1987-88	5,455	..	6,093	..	2,660	310	77,113
1987—							
September	514	519	562	541	236	26.9	7,748
October	440	437	524	513	222	27.3	6,553
November	417	429	479	496	192	26.5	6,311
December	389	388	445	453	202	24.9	5,465
1988—							
January	365	359	406	414	192	24.0	1,868
February	449	468	475	510	207	22.1	7,451
March	518	500	589	584	250	27.5	8,072
April	447	473	495	529	239	26.2	5,283
May	466	461	484	474	237	24.2	7,253
June	469	468	536	532	214	26.2	7,671
July	493	469	555	521	209	25.2	6,719
August	498	483	565	531	220	31.0	8,634
September	499	499	564	537	217	29.3	7,250
October	519	515	573	566	250	30.0	7,087
November	489	506	569	587	241	29.1	9,132
1987-88 : July to Nov.	2,352	..	2,664	..	1,119	135	34,050
1988-89 : July to Nov.	2,499	..	2,825	..	1,138	145	38,822

(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	248,481	13,201	1,307
1987-88	n.p.	272,476	13,438	1,323
1985—				
September qtr	4,008	70,312	4,076	287
December qtr	2,633	63,068	4,354	321
1986—				
March qtr	2,501	56,741	3,443	323
June qtr	3,781	64,237	3,897	332
September qtr	3,902	64,880	3,828	345
December qtr	3,024	59,181	3,577	331
1987—				
March qtr	2,475	60,913	2,782	305
June qtr	4,224	65,690	3,014	325
September qtr	3,850	66,546	2,961	344
December qtr	3,344	69,475	3,179	360
1988—				
March qtr	3,148	69,442	3,640	298
June qtr	n.p.	70,720	3,658	321
September qtr	n.p.	70,642	2,783	329

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) (451.50)	Foil (451.70)
1985-86	70,207	24,038	17,782	161,890	13,362
1986-87	67,671	20,202	13,871	172,372	15,481
1987-88	75,237	21,363	14,683	176,960	15,968
1987—					
September	7,214	2,028	1,070	14,529	1,509
October	6,217	1,786	1,208	13,478	1,198
November	6,125	1,742	1,170	14,796	1,308
December	6,063	1,532	1,095	13,763	1,293
1988—					
January	2,966	332	251	11,635	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	7,083	2,278	1,594	16,493	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	15,439	1,560
1987-88 : July to Nov.	32,953	8,700	5,572	74,490	6,701
1988-89 : July to Nov.	36,500	11,623	8,602	77,469	7,276

(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	3,453
1987-88	21,342	5,046	42,394	2,722
1987—				
September	1,741	440	4,035	239
October	2,311	682	3,856	201
November	1,774	365	3,700	282
December	1,664	316	3,450	218
1988—				
January	230	149	1,247	152
February	1,941	464	3,920	222
March	1,985	363	4,179	261
April	2,127	329	2,789	213
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.
1987-88 : July to Nov.	10,004	2,786	19,219	1,310
1988-89 : July to Nov.	10,057	1,844	19,579	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	12,033
1987—	
September	858
October	938
November	894
December	810
1988—	
January	247
February	790
March	1,399
April	1,110
May	807
June	2,555
July	11,346
August	11,575
September	1,593
October	1,313
November	1,204
1987-88 : July to Nov.	4,315
1988-89 : July to Nov.	7,031

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)
Aluminium, stranded		Copper(c)		Aluminium(d) (464.39)			
Period	(Aluminium content) (464.16)	Paper insulated (464.28)	Otherwise insulated (464.29)		Copper(c) (464.44)		
—tonnes—							
1985-86	16,739	3,705	34,493	3,594	13,700	107,642	'000 metres
1986-87	12,072	4,161	36,718	3,765	12,555	99,792	
1987-88	12,033	2,820	36,215	3,658	10,106	115,349	
1987—							
September	858	296	3,306	342	937	9,809	
October	938	194	3,373	294	900	9,808	
November	894	298	3,541	374	829	11,003	
December	810	252	3,195	310	750	8,875	
1988—							
January	247	n.p.	963	34	361	3,617	
February	790	n.p.	2,659	275	632	9,671	
March	1,399	306	3,652	254	1,065	8,432	
April	1,110	251	2,370	267	692	5,453	
May	807	224	3,329	426	733	11,046	
June	2,555	300	3,308	473	1,096	11,279	
July	1,346	250	3,170	348	865	10,629	
August	1,375	1,146	3,468	420	906	15,006	
September	1,593	251	3,771	425	993	12,632	
October	1,313	275	3,113	351	848	10,894	
November	1,204	n.p.	3,684	435	974	10,347	
1987-88 : July to Nov.	4,315	1,213	16,739	1,619	4,777	56,976	
1988-89 : July to Nov.	7,031	n.p.	17,206	1,979	4,586	59,509	

(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 11. 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
1985-86	163	206	2,208	297	315,337	56,928
1986-87	171	174	784	300	270,608	81,856
1987-88	186	182	501	306	304,426	111,934
1987—						
September	17.9	22.0	44	28.4	29,512	8,192
October	20.4	18.7	17	25.3	30,598	10,468
November	11.3	18.5	59	25.3	27,157	9,019
December	11.5	18.6	20	26.1	28,896	9,011
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	12.9	13.9	26	27.2	26,990	14,532
October	16.4	16.3	37	27.5	21,873	11,199
November	20.1	14.8	30	26.1	29,750	10,089
1987-88 : July to Nov.	81.9	97.0	237	133.0	141,015	44,902
1988-89 : July to Nov.	81.4	78.6	155	134.0	132,822	62,255

TABLE 12.
LAWNMOWERS

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

Seasonally
Original adjusted(c)
(609.51)

Period	Copper (452.04)	Lead(b) (453.04)	Tin (456.04)	Zinc (457.04)	Silver (455.04)	Gold (455.04)	Original (609.51)	Seasonally adjusted(c) (609.51)
	'000 tonnes		'000 tonnes		kg		number	
1985-86	163	206	2,208	297	315,337	56,928	290,239	..
1986-87	171	142	784	300	270,608	81,856	276,357	..
1987-88	186	182	501	306	304,426	111,934	279,071	..
1987—								
September	17.9	22.0	44	28.4	29,512	8,192	33,446	22,643
October	20.4	18.7	17	25.3	30,598	10,468	42,955	24,421
November	11.3	18.5	59	25.3	27,157	9,019	34,106	21,112
December	11.5	18.6	20	26.1	28,896	9,011	25,297	21,119
1988—								
January	16.1	1.0	47	22.6	13,650	8,430	13,350	19,328
February	14.5	1.5	19	22.6	11,095	10,290	23,987	24,587
March	17.0	16.8	39	22.6	26,726	9,971	21,713	27,343
April	10.6	12.9	37	24.7	25,331	9,664	12,336	27,354
May	19.1	17.0	75	25.3	30,659	10,066	12,869	31,381
June	14.4	18.4	27	27.2	27,056	9,600	15,766	23,583
July	15.4	17.0	36	26.2	26,554	13,877	19,544	24,477
August	16.7	16.5	26	26.7	27,655	12,558	29,717	24,091
September	12.9	13.9	26	27.2	26,990	14,532	37,552	26,534
October	16.4	16.3	37	27.5	21,873	11,199	36,185	21,859
November	20.1	14.8	30	26.1	29,750	10,089	35,229	19,518
1987-88 : July to Nov.	81.9	97.0	237	133.0	141,015	44,902	153,753	..
1988-89 : July to Nov.	81.4	78.6	155	134.0	132,822	62,255	158,227	..

(a) Primary origin only. Comprises production by establishments classified to either the Manufacturing or Mining Sectors. 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)</i> <i>(611.01)</i>
1985-86	103,661
1986-87	87,453
1987-88	98,911
1985—	
September qtr	28,490
December qtr	44,000
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	29,427

TABLE 14.
COKE
(*000 tonnes)

<i>Metallurgical coke</i> <i>(435.22)</i>
3,534
3,253
3,727
848
872
940
874
846
863
779
765
896
936
955
941
978

(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 1: 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 Bulletin No. 1 : Electrical Appliances, Australia (8357.0) — issued monthly

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 Trailed Vehicles, Australia (8363.0) — issued quarterly

Manufacturing Commodities : Selected Principal Articles Produced, Australia, 1984-85, 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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