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PRODUCTION OF METAL PRODUCTS, AUSTRALIA, SEPTEMBER 1989

PHONE INQUIRIES	<ul style="list-style-type: none">• about these statistics and the availability of related unpublished statistics — contact Kevin Squair on Canberra (062) 52 5558 or any ABS State office.• about other statistics and ABS services — contact Information Services on Canberra (062) 52 6627, 52 5402, 52 6007 or any ABS State office.
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EXPLANATORY NOTES

Introduction

This publication, is one of a series of nine containing monthly and quarterly production statistics. The titles of other publications of this series are shown in paragraph 9.

Classification

2. Data contained in these publications are mostly based on monthly or quarterly collections conducted by the Australia Bureau of Statistics (ABS). Most items are identified by the commodity codes used in the Australian Manufacturing Production Commodity Classification (AMPCC), which was developed by the ABS to facilitate greater comparability of manufacturing production commodity statistics with import and export commodity statistics. AMPCC items were introduced into the monthly production collections (catalogues 8301.0, 8357.0 to 8363.0, 8367.0 and 8368.0) from July 1989. The last available data relating to superseded commodity items corresponding to items in this publication are published in the June 1989 issue *Production of Energy and Metal Products, Australia* (8364.0). In cases where data are derived from sources other than ABS collections no commodity code is shown and the source of the data is acknowledged in a footnote.

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 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. 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

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

Production Statistics, Australia, Preliminary (8301.0) — issued monthly

Production of Household Appliances and Electrical Equipment, Australia (8357.0) — issued monthly

Production of Clothing and Footwear, Australia (8358.0) — issued monthly

Production of Food, Drink, Tobacco and Stock and Poultry Food Australia (8359.0) — issued monthly

Production of Fibres, Yarns, Fabrics, Bedding and Floor Coverings, Australia (8360.0) — issued monthly

Production of Building Materials and Fittings, Australia (8361.0) — issued monthly

Production of Paper, Plastics, Paints, Industrial Chemicals and Detergents, Australia (8362.0) — issued monthly

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

Production of Energy Products, Australia (8368.0) — issued monthly

Manufacturing Commodities : Selected Principal Articles Produced, Australia 1986-87, Preliminary (8356.0)

Manufacturing Commodities : Principal Articles Produced, Australia 1986-87, (8303.0).

10. Current publications produced by the ABS are listed in the *Catalogue of Publications, Australia (1101.0)*. The ABS also issues, on Tuesday 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.a. not available
 n.y.a. not yet available
 . . not applicable
 r revised since last issue

Electronic services

VIA TEL. Key *656# for selected current economic, social and demographic statistics.

AUSSTATS. Thousands of up-to-date time series are available on this ABS on-line service through PAXUS COMNET.

For further information phone the AUSSTATS Help Desk on (062) 52 6017.

TELESTATS. This service provides:

- foreign trade statistics tailored to users' requirements. Further information is available on (062) 52 5404.
- text and tables for selected Main Economic Indicator publications. Further information is available on (062) 52 5405.

Floppy disk service

Selected ABS statistics are available on floppy disk. Further information is available on (062) 52 6684.

IAN CASTLES
 Australian Statistician

TABLE 1. FERROUS METALS
 ('000 tonnes)

Period	Basic Iron, Spiegeleisen and sponge iron(a)			Iron and Steel in ingots or other primary forms(b)			Blooms and slabs			
	Original (671.01)	Seasonally adjusted(d)	Trend(e)	Original (672.40)	Seasonally adjusted(d)	Trend(e)	From	From rolling and forging(c)		
							continuous casting (672.03)	Original (672.04)	Seasonally adjusted(d)	Trend(e)
1986-87	5,783	..	..	6,387	..	..	n.a.	3,670	..	..
1987-88	5,544	..	..	6,093	..	..	n.a.	2,660	..	..
1988-89	5,875	..	..	6,651	..	..	n.p.	2,578	..	..
1988—										
July	493	473	480	555	525	527	n.p.	209	211	220
August	498	483	485	565	534	535	n.p.	220	217	219
September	500	497	494	564	541	548	n.p.	217	204	222
October	519	509	501	573	562	560	n.p.	250	243	225
November	489	504	504	569	579	568	n.p.	241	242	227
December	518	512	503	588	584	573	n.p.	239	238	226
1989—										
January	499	494	499	546	556	574	n.p.	187	191	221
February	454	489	492	508	569	570	n.p.	201	209	214
March	488	475	485	560	557	564	n.p.	217	221	209
April	486	514	482	558	611	557	n.p.	221	219	206
May	457	460	484	516	503	553	n.p.	187	191	206
June	473	469	491	549	542	552	n.p.	188	189	208
July	528	507	500	595	561	553	n.p.	221	224	210
August	531	519	512	586	562	558	n.p.	222	219	213
September	546	542	523	597	572	562	n.p.	231	217	215
1988-89: July to Sept.	1,491	..	..	1,684	..	..	n.p.	646	..	..
1989-90: July to Sept.	1,605	..	..	1,778	..	..	n.p.	673	..	..

(a) Prior to July 1989 excludes spiegeleisen and sponge iron. (b) Includes ingots, puddled bars, pilings, blocks or lumps and steel in the molten state. (c) From rolling and forging of iron and steel (primary mills output). (d) See Paragraph 5, Explanatory Notes. (e) See paragraph 6 to 8, Explanatory Notes.

TABLE 2. STEEL WIRE AND WIRE PRODUCTS
 (tonnes)

Period	Ferrous barbed wire (693.21)	Ferrous welded wire fabric(a) (693.54.55)	Nails, tacks, drawing pins, etc(b) (694.10)	Steel wool (697.73)
1986-87	13,625	259,262		1,307
1987-88	n.p.	271,726		1,323
1988-89	n.p.	314,584		1,251
1986—				
September qtr	3,902	64,197		345
December qtr	3,021	69,432		331
1987—				
March qtr	2,475	60,426	Not available up to June quarter 1989	305
June qtr	4,224	65,207		325
September qtr	3,850	66,546		344
December qtr	3,417	69,475		360
1988—				
March qtr	3,119	64,985		298
June qtr	n.p.	70,720		321
September qtr	n.p.	80,863		329
December qtr	2,760	82,464		314
1989—				
March qtr	n.p.	79,859		298
June qtr	n.p.	87,532		310
September qtr	n.p.	88,465	295	333

(a) Includes welded reinforcing steel mesh. (b) Includes staples (except in strips for office, upholstery or packaging), spiked clamps, studs and spikes. Excludes with heads of copper.

TABLE 3. IRON AND STEEL PIPES AND TUBES
 ('000 tonnes)

Period	Tubes, pipes and hollow profiles, of iron and steel			Tube or pipe fittings, of iron or steel			
	Other			Cast iron		Cast Steel (679.58)	Other (679.61)
	Cast Iron (679.11)	Seamless (679.18)	Other (679.62)	Non-malleable (679.51)	malleable (679.57)		
Not available prior to July 1989							
1989—							
July	6.88	—	n.y.a.	0.86	n.y.a.	n.y.a.	n.y.a.
August	n.y.a.	n.y.a.	n.y.a.	0.96	n.y.a.	n.y.a.	n.y.a.
September	n.y.a.	—	n.y.a.	0.82	n.y.a.	n.y.a.	n.y.a.
1989-90: July to Sept.	n.y.a.	n.y.a.	n.y.a.	2.64	n.y.a.	n.y.a.	n.y.a.

TABLE 4. NON-FERROUS ROLLED, EXTRUDED AND DRAWN PRODUCTS

Period	Copper and alloy								
	Aluminium and alloy			Bars, rods and profiles(a)				Lead and alloy(d)	
	Bars, rods and profiles(a) (684.21)	Foil(b) (684.24)	Other (684.28)	Brass (682.34)	Other (682.33)	Foil(c) (682.61)	Wire(d) (682.43)		Other (682.90)	(685.23)
	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes
Not available prior to July 1989									
1989—									
July	n.y.a.	1,237	n.y.a.	12.63	3.71	—	n.y.a.	—	11.08
August	n.y.a.	1,315	n.y.a.	12.94	n.y.a.	—	n.y.a.	—	10.42
September	n.y.a.	1,146	n.y.a.	2.88	n.y.a.	—	n.y.a.	—	0.38
1989-90: July to Sept.	n.y.a.	3,698	n.y.a.	8.45	n.y.a.	—	n.y.a.	—	1.87

(a) Includes wire rod. (b) Of a thickness (excluding any backing) not exceeding 0.20mm. (c) Of a thickness (excluding any backing) not exceeding 0.15mm. (d) Excludes iron rod and wire if stranded, braided or unalloyed. (e) Includes tin-coated lead. Excludes foil.

TABLE 5. NON-FERROUS REFINED METALS(a)

Period	Copper '000 tonnes	Lead(b) '000 tonnes	Tin '000 tonnes	Zinc '000 tonnes	Precious metals	
					Silver kg	Gold kg
1986-87	171	142	784	300	270,608	81,856
1987-88	186	182	501	306	304,426	111,934
1988-89	211	184	377	303	305,013	169,653
1988—						
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	15,333
February	19.9	15.1	25	21.5	22,067	15,333
March	19.0	19.2	15	23.9	25,361	15,334
April	18.2	18.6	29	21.8	26,851	16,666
May	18.2	15.4	47	26.2	33,739	16,668
June	18.2	14.1	49	23.1	23,769	n.y.a.
July	18.9	14.1	30	22.3	22,145	n.y.a.
August	21.3	20.6	46	25.2	32,196	n.y.a.
September	19.3	17.7				
1988-89: July to Sept.	45.3	47.4	88	80.1	81,199	40,967
1989-90: July to Sept.	59.5	52.4	125	70.6	78,110	n.y.a.

(a) Primary origin only. Comprises production by establishments classified to either the Manufacturing or Mining Sectors. Source: Australian Bureau of Agricultural and Resource Economics. (b) Includes lead content of lead alloys from primary sources but excludes lead-silver bilion.

