

**MANUFACTURING PRODUCTION, AUSTRALIA
METAL PRODUCTS
AUGUST 1991**

TABLE 1. FERROUS METALS
(*000 tonnes)

Period	Basic iron, spiegeleisen and sponge iron(671.01)			Iron and steel in ingots or other primary forms(a)(672.40)			Blooms and slabs			
	Original	Seasonally adjusted(c)	Trend(d)	Original	Seasonally adjusted(c)	Trend(d)	From	From rolling and forging(b)(672.04)		
							continuous casting (672.03)	Original	Seasonally adjusted(c)	Trend(d)
1988-89	5,875	..	..	6,651	..	..	n.p.	2,578	..	..
1989-90	6,188	..	..	6,681	..	..	5,136	2,440	..	..
1990-91	5,600	..	..	6,219	..	..	4,620	2,521	..	..
<i>1990—</i>										
June	476	489	508	530	531	553	381	213	223	214
July	515	499	511	553	535	558	414	230	223	217
August	551	527	514	626	584	561	478	228	218	215
September	526	514	516	601	569	562	445	227	214	211
October	521	502	516	573	551	561	441	209	192	207
November	539	533	508	569	571	553	422	187	201	205
December	523	500	489	562	541	537	421	217	212	204
<i>1991—</i>										
January	454	456	461	468	485	514	343	199	207	206
February	413	454	431	483	536	491	358	182	206	r208
March	384	395	411	460	470	475	313	228	220	r211
April	356	372	409	411	433	472	309	197	189	211
May	397	400	424	458	473	482	327	221	236	212
June	420	438	451	455	462	499	351	197	207	212
July	535	519	482	600	576	520	462	214	207	212
August	587	560	514	605	567	540	500	222	212	212
1990-91 July to Aug.	1,067	..	..	1,179	..	..	891	457	..	..
1991-92 July to Aug.	1,122	..	..	1,205	..	..	962	436	..	..

(a) Includes ingots, puddled bars, pilings, blocks or lumps and steel in the molten state. There is a break in the series as statistics after July 1991 exclude a small proportion of total production, due to the withdrawal of consent for the ABS to release the information. (b) From rolling and forging of iron and steel (primary mills output). (c) See Paragraph 5, Explanatory Notes. (d) See paragraph 6 to 8, Explanatory Notes.

INQUIRIES

- for further information about statistics in this publication and the availability of related unpublished statistics, contact Kevin Squair in Canberra (06) 252 5558 or any ABS State office.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 2. STEEL WIRE AND WIRE PRODUCTS
 (tonnes)

<i>Period</i>	<i>Ferrous welded wire fabric(a)</i> (693.54.55)	<i>Nails, tacks, drawing pins, etc(b)</i> (694.10)	<i>Steel wool</i> (697.73)
1988-89	338,500	n.a.	1,251
1989-90	320,166	22,675	1,221
1990-91	254,763	19,954	1,233
<i>1988—</i>			
September qtr	82,768	Not available prior to September quarter 1989	329
December qtr	84,494		314
<i>1989—</i>			
March qtr	81,502		298
June qtr	89,736		310
September qtr	90,536	6,485	333
December qtr	85,647	6,345	345
<i>1990—</i>			
March qtr	70,766	4,672	237
June qtr	73,217	5,173	306
September qtr	72,141	5,735	308
December qtr	71,505	5,743	294
<i>1991—</i>			
March qtr	56,032	4,424	307
June qtr	55,085	4,052	324

(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
 (tonnes)

<i>Period</i>	<i>Tube or pipe fittings, of iron or steel</i>		
	<i>Cast iron tubes, pipes and hollow profiles</i> (679.11)	<i>Non-malleable Cast Iron</i> (679.51)	<i>Other</i> (679.57,58,61)
1989-90	79,936	10,673	2,594
1990-91	71,393	9,172	2,320
<i>1990—</i>			
June	6,838	983	199
July	8,548	956	210
August	6,370	810	n.p.
September	6,292	679	185
October	6,877	970	216
November	5,654	964	236
December	4,379	535	190
<i>1991—</i>			
January	1,929	440	125
February	6,414	756	185
March	5,914	741	183
April	6,676	760	185
May	6,788	837	213
June	5,552	724	228
July	8,778	840	n.p.
August	6,143	709	183
1990-91 July to Aug.	14,918	1,766	n.p.
1991-92 July to Aug.	14,921	1,549	411

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

Period	Aluminium and alloy		Copper and alloy				Lead and alloy(d) (685.23)
	Bars, rods and profiles(a)(e) (684.21)	Other ¹ (b)(e) (684.24,28)	Bars, rods sections		Wire rod and profiles (682.37)	Wire(c) (682.43)	
			Brass (682.31,32)	Other (682.38,39)			
1988-89	103,406	n.a.	28,954	16,745	n.a.	36,524	n.a.
1989-90	r97,082	r195,482		100,816		22,659	5,290
1990-91	r81,902	r200,762	17,738	n.p.	n.p.	n.p.	3,214
1990—	r	r	8,323				
June	6,394	17,467		n.p.	n.p.	1,944	350
July	7,083	13,785	1,742	n.p.	n.p.	1,886	376
August	7,822	19,360	1,717	n.p.	n.p.	2,087	388
September	7,612	19,087	1,458	n.p.	n.p.	1,879	289
October	8,076	18,184	1,504	n.p.	n.p.	2,056	300
November	8,624	17,697	1,543	n.p.	n.p.	2,125	373
December	6,370	14,453	1,063	n.p.	n.p.	1,693	222
1991—	r	r					
January	3,829	14,843	347	n.p.	n.p.	735	187
February	6,859	17,000	1,545	n.p.	n.p.	1,580	190
March	6,402	15,587	1,735	n.p.	n.p.	1,546	232
April	5,924	15,072	1,707	n.p.	n.p.	1,960	211
May	7,458	19,522	1,860	3,954	n.p.	1,199	237
June	5,843	16,172	1,517	n.p.	n.p.	n.p.	209
July	7,375	17,392	r1,559	n.p.	n.p.	r1,584	302
August	7,610	18,476	1,766	7,669	n.p.	n.p.	254
1990-91 July to Aug.	14,905	33,145	3,459	n.p.	n.p.	3,973	764
1991-92 July to Aug.	14,985	35,868	3,325	n.p.	n.p.	n.p.	556

(a) Includes wire rod. Excludes profile decking and cladding prior to July 1989. (b) Includes foil of a thickness (excluding any backing) not exceeding 0.20mm. (c) Excludes if stranded, braided or insulated. Excludes of brass prior to July 1989. (d) Includes tin-coated lead. Excludes foil. (e) Series revised due to improved coverage.

TABLE 5. NON-FERROUS REFINED METALS(a)

Period	Copper	Lead(b)	Tin	Zinc	Silver(c)	Gold(d)
	'000 tonnes	'000 tonnes	tonnes	'000 tonnes	kg	kg
1988-89	211	184	377	303	305,013	169,653
1989-90	244	197	365	295	368,378	231,675
1990-91	235	212	325	321	408,395	256,362
1990—						
June	20	18	26	27	38,543	19,854
July	21	24	25	28		
August	21	18	23	28		
September	21	18	41	26	97,488	54,770
October	21	19	29	22		
November	21	17	31	27		
December	20	20	24	26	117,540	80,437
1991—						
January	20	3	23	26		
February	11	16	19	25		
March	15	20	35	28	85,533	64,286
April	24	17	25	29		
May	24	21	25	28		
June	17	19	25	28	107,834	56,869
July	23	21	50	26		18,183
August	23	20	15	26		n.y.a.
1990-91 July to Aug.	42	42	48	56	..	..
1991-92 July to Aug.	46	41	65	52	..	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 bullion. (c) Collected on a quarterly basis from July 1990. (d) Collected on a quarterly basis between July 1990 and June 1991.

EXPLANATORY NOTES

Introduction

This publication, is one of a series of ten 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 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. 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, 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. 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:

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

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

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

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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

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

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

10. Current publications produced by the ABS are listed in the *Catalogue of Publications 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 from any ABS office.

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n.p. not available for separate publication (but included in totals where applicable)

n.a. not available
.. not applicable
r revised since last 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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