



Manufacturing Production Australia

Metal Products

June 1994 - August 1994

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At the bottom of the page, there are two thick, black, horizontal bars that taper at their ends, mirroring the design of the bars at the top. They are positioned below the catalogue number.

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:

- . basic iron, spiegeleisen and sponge iron
- . blooms and slabs
- . primary recovery of copper
- . primary recovery of lead
- . primary recovery of tin
- . primary recovery of zinc
- . primary recovery of silver
- . primary recovery of gold

- 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.

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MANUFACTURING PRODUCTION, AUSTRALIA

**METAL PRODUCTS
JUNE 1994 - AUGUST 1994**

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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- *For further information about statistics in this publication and the availability of related unpublished statistics, contact Rod Smith on Melbourne (03) 615 7635 or any ABS Office.*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.*
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TABLE 1. FERROUS METALS
('000 tonnes)

Period	Basic iron, <i>spiegeleisen and sponge iron</i> (671.01)			Blooms and slabs <i>from continuous casting</i> (a)(672.03)		
	Original	Seasonally adjusted(b)	Trend(c)	Original	Seasonally adjusted(b)	Trend(c)
1991-92	6,394	..	..	5,205	..	..
1992-93	6,445	..	..	6,218	..	..
1993-94	7,210	..	..	7,627	..	..
1993 —		r	r		r	r
June	568	610	584	613	635	617
July	572	543	577	604	578	609
August	588	555	567	613	567	599
September	574	554	560	625	591	592
October	613	573	559	654	607	593
November	600	568	566	638	620	603
December	591	573	578	638	604	619
1994 —		r	r		r	r
January	582	582	596	613	624	641
February	556	624	618	590	658	665
March	607	634	640	647	691	686
April	628	649	655	667	705	696
May	652	695	660	681	738	694
June	646	696	658	658	704	681
July	643	610	651	661	611	664
August	649	612	640	680	618	644
1993-94: July to Aug.	1,161	..	..	1,216	..	..
1994-95: July to Aug.	1,292	..	..	1,341	..	..

(a) This series replaces the previously published 'Iron and Steel in Primary Forms' and 'Blooms and Slabs from rolling and forging'. Changes in industry production practices mean that almost all raw steel is now used to produce Blooms and Slabs using continuous casting methods. (b) See paragraph 5, Explanatory Notes. (c) See paragraph 6 to 8, Explanatory Notes.

TABLE 2. STEEL WIRE AND WIRE PRODUCTS
(tonnes)

Period	Ferrous welded wire fabric(a) (693.54.55)	Nails, tacks, drawing pins etc(b)	Steel wool (697.73)
1991-92	r 254,116	20,361	1,129
1992-93	r 272,878	r 20,916	1,192
1993-94	288,701	22,238	1,125
1991--	r		
September qtr	64,999	4,891	327
December qtr	62,936	5,465	279
1992--	r		
March qtr	60,084	5,112	281
June qtr	66,097	4,893	242
September qtr	66,731	5,259	304
December qtr	66,750	5,254	299
1993	r		
March qtr	66,270	r 5,004	273
June qtr	73,127	5,399	316
September qtr	72,796	6,034	301
December qtr	71,038	5,989	314
1994--			
March qtr	r 66,151	4,940	229
June qtr	78,716	5,275	282

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

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

Period	<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)
1991-92	70,335	6,465	3,950
1992-93	67,149	5,976	3,968
1993-94	n.p.	4,357	4,362
<i>1993 —</i>			
June	7,304	515	439
July	7,186	481	348
August	6,246	398	330
September	7,602	572	376
October	5,538	564	315
November	6,677	457	350
December	5,137	335	327
<i>1994 —</i>			
January	1,744	38	182
February	6,032	213	352
March	6,028	304	464
April	4,913	299	347
May	5,975	338	450
June	n.p.	358	521
July	5,956	363	519
August	6,358	316	577
1993-94: July to Aug.	13,432	879	678
1994-95: July to Aug.	12,314	679	1,096

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

Period	<i>Copper and alloy</i>						
	<i>Aluminium and alloy</i>		<i>Bars, rods sections</i>		<i>Wire rod and profiles</i> (682.37)	<i>Wire(c)</i> (682.43)	<i>Lead and alloy(d)</i> (685.23)
	<i>Bars, rods and profiles(a)</i> (684.21)	<i>Other(b)</i> (684.24,28)	<i>Brass</i> (682.31,32)	<i>Other</i> (682.38,39)			
1991-92	95,224	201,166	20,750	n.p.	n.p.	13,695	2,955
1992-93	103,448	213,841	20,384	n.p.	n.p.	9,417	3,512
1993-94	109,609	217,820	n.p.	n.p.		28,762	2,702
<i>1993 —</i>							
June	8,150	18,946	1,683	n.p.	n.p.	1,015	309
July	8,851	19,332	11,825			2,320	371
August	9,236	18,289	11,639			2,319	375
September	10,615	18,549	13,318			2,709	293
October	9,778	17,446	11,153			2,388	162
November	11,180	18,080	12,576			2,354	206
December	8,779	18,912	1,475	n.p.		2,033	243
<i>1994 —</i>							
January	6,282	16,778	630	n.p.		1,365	95
February	9,662	18,399	1,947	n.p.		2,670	163
March	10,168	18,075	2,478	n.p.		r 2,545	213
April	7,743	17,067	2,056	n.p.		r 2,713	192
May	8,561	17,821	2,448	n.p.		r 2,784	178
June	8,754	19,072	n.p.	n.p.		2,562	211
July	9,524	18,096	2,195	n.p.		2,666	215
August	10,524	17,159	n.p.	n.p.		2,613	164
1993-94: July to Aug.	18,087	37,621	23,464			4,639	746
1994-95: July to Aug.	20,048	35,255	n.p.			5,279	379

(a) Includes wire rod. (b) Includes foil of a thickness (excluding any backing) not exceeding 0.20mm. (c) Excludes if stranded, braided or insulated. (d) Includes tin-coated lead. Excludes foil.

TABLE 5. NON-FERROUS REFINED METALS(a)

<i>Period</i>	<i>Copper(b)</i> '000 tonnes	<i>Lead(c)</i> '000 tonnes	<i>Tin(b)</i> tonnes	<i>Zinc(b)</i> '000 tonnes	<i>Silver</i> tonnes	<i>Gold(d)</i> kg
1991-92	277	215	248	325	382	281,835
1992-93	312	224	258	333	355	288,188
1993-94	329	222	186	315	377	305,098
<i>1991</i>						
September qtr	68	61	51	79	94	66,568
December qtr	72	58	69	82	100	69,831
<i>1992—</i>						
March qtr	66	32	61	76	66	73,073
June qtr	71	64	67	88	122	72,363
September qtr	84	59	75	87	95	75,608
December qtr	82	56	37	82	87	69,505
<i>1993—</i>						
March qtr	71	47	73	76	80	69,676
June qtr	75	62	73	88	93	73,399
September qtr	84	51	13	73	r 88	r 77,826
December qtr	79	61	63	r 79	r 95	r 73,549
<i>1994—</i>						
March qtr	79	57	18	82	90	75,027
June qtr	87	53	92	81	104	78,696

(a) Comprises production by establishments classified to either the Manufacturing or Mining Sectors. Source: ABARE. (b) Primary origin only.

(c) Includes lead content of lead from primary sources. (d) From primary and secondary sources.

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, Household Appliances and Electrical Equipment (8357.0) — issued quarterly

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, 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.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).

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