



Manufacturing Production Australia

Metal Products

March 1994 - May 1994

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MANUFACTURING PRODUCTION, AUSTRALIA

**METAL PRODUCTS
MARCH 1994 - MAY 1994**

**IAN CASTLES
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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- *For further information about statistics in this publication and the availability of related unpublished statistics, contact Rod Smith on Melbourne (03) 615 7635 or any ABS Office.*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, spiegeleisen and sponge iron(671.01)			Blooms and slabs from continuous casting(a)(672.03)		
	Original	Seasonally adjusted(b)	Trend(c)	Original	Seasonally adjusted(b)	Trend(c)
1990-91	5,600	..	..	4,620	..	..
1991-92	6,394	..	..	5,205	..	..
1992-93	6,445	..	..	6,218	..	..
1993—						
March	526	554	561	550	569	582
April	550	578	580	533	572	605
May	587	631	589	636	677	615
June	568	614	587	613	651	615
July	572	540	r 578	604	578	609
August	588	552	566	613	568	601
September	574	550	r 557	625	584	596
October	613	577	r 555	654	619	596
November	600	566	r 561	638	617	604
December	591	559	576	638	616	619
1994—						
January	582	575	r 594	613	614	635
February	556	628	r 616	590	654	654
March	607	647	640	647	666	675
April	628	660	662	667	718	696
May	652	698	683	681	727	715
1992-93: July to May.	5,877	..	..	5,605	..	..
1993-94: July to May.	6,564	..	..	6,969	..	..

(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) (694.10)	Steel wool (697.73)
1990-91	253,789	19,951	1,233
1991-92	254,302	20,361	1,129
1992-93	r 273,057	r 20,849	1,192
1991—			
June qtr	53,246	4,052	324
September qtr	65,051	4,891	327
December qtr	62,980	5,465	279
1992—			
March qtr	60,127	5,112	281
June qtr	66,144	4,893	242
September qtr	66,794	5,259	304
December qtr	66,796	5,254	299
1993—			
March qtr	r 66,315	r 4,937	273
June qtr	73,152	r 5,399	316
September qtr	r 72,846	6,034	301
December qtr	r 71,078	r 5,989	314
1994—			
March qtr	66,176	4,940	229
1992-93: July to Mar.	199,905	15,450	876
1993-94: July to Mar.	210,100	16,963	843

(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 (679.11)</i>	<i>Non-malleable Cast Iron (679.51)</i>	<i>Other (679.57,58,61)</i>
1990-91	71,397	7,550	3,971
1991-92	70,335	6,465	3,950
1992-93	67,149	5,976	3,968
<i>1993 —</i>			
March	6,451	585	373
April	4,221	398	327
May	6,575	509	332
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
1992-93: July to May.	59,845	5,461	3,529
1993-94: July to May.	63,078	3,999	3,841

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>	<i>Lead and alloy(d)</i>
	<i>Bars, rods and profiles(a) (684.21)</i>	<i>Other(b) (684.24,28)</i>	<i>Brass (682.31,32)</i>	<i>Other (682.38,39)</i>	<i>Wire rod and profiles (682.37)</i>	<i>Wire(c) (682.43)</i>	<i>Lead and alloy(d) (685.23)</i>
1990-91	92,473	194,213	17,738	n.p.	n.p.	20,067	3,217
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
<i>1993 —</i>							
March	10,992	19,539	2,049	n.p.	n.p.	629	325
April	8,559	17,788	1,585	n.p.	n.p.	839	331
May	9,509	19,221	1,787	n.p.	n.p.	1,028	401
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.		7,117	213
April	7,743	17,067	2,056	n.p.		6,999	192
May	8,561	17,821	2,448	n.p.		7,822	178
1992-93: July to May.	95,298	194,895	18,701	n.p.	n.p.	8,402	3,203
1993-94: July to May.	100,855	198,748	n.p.	n.p.		40,096	2,491

(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)

Period	Copper(b)	Lead(c)	Tin(b)	Zinc(b)	Silver	Gold(d)
	'000 tonnes	'000 tonnes	tonnes	'000 tonnes	tonnes	kg
1990-91	237	220	321	320	409	255,318
1991-92	277	215	248	325	382	281,835
1992-93	312	224	258	333	355	288,188
<i>1991—</i>						
June qtr	65	59	71	84	108	67,937
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	r 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
1992-93: July to Mar.	237	162	185	245	262	214,789
1993-94: July to Mar.	242	169	94	234	273	226,402

(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.

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 Colin Nicholson on (02) 268 4282.

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)





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