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**PRODUCTION OF METAL PRODUCTS, AUSTRALIA, JULY 1990**

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**TABLE 1. FERROUS METALS**  
(\*000 tonnes)

Period	Basic iron, spiegeleisen and sponge iron			Iron and steel in ingots or other primary forms(a)			Blooms and slabs			
	Original (671.01)	Seasonally adjusted(c)	Trend(d)	Original (672.40)	Seasonally adjusted(c)	Trend(d)	From continuous casting (672.03)	From rolling and forging(b)		
							Original (672.04)	Seasonally adjusted(c)	Trend(d)	
1987-88	5,544	..	..	6,093	..	..	n.a.	2,660	..	..
1988-89	5,875	..	..	6,651	..	..	n.p.	2,578	..	..
1989-90	6,188	..	..	6,674	..	..	5,130	2,440	..	..
1989—										
May	457	454	485	516	511	554	n.p.	187	195	206
June	473	482	491	549	547	553	n.p.	188	191	208
July	528	508	502	595	562	554	460	221	220	210
August	531	518	516	586	562	560	463	222	215	213
September	546	535	529	597	570	567	462	231	218	215
October	558	539	536	592	573	570	444	236	217	211
November	521	534	535	538	554	569	414	194	203	204
December	553	538	527	590	584	564	446	200	197	194
1990—										
January	534	526	518	576	577	559	469	190	194	187
February	440	490	509	451	509	554	367	136	152	185
March	484	481	503	538	544	549	400	198	194	188
April	498	513	500	555	577	543	420	211	208	196
May	518	520	500	532	538	537	410	188	197	205
June	476	487	498	524	523	531	375	213	217	214
July	515	494	498	549	514	526	410	230	230	222

(a) Includes ingots, puddled bars, pigging, blooms or lumps and steel in the molten state. (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.

**TABLE 2. STEEL WIRE AND WIRE PRODUCTS**  
 (tonnes)

Period	Ferrous barbed wire (693.21)	Ferrous welded wire fabric(a)		Nails, tack, drawing pins, etc(b) (694.10)	Steel wool (697.73)
		(693.54.55)			
1987-88	n.p.	271,726		..	1,323
1988-89	n.p.	314,584		..	1,251
1989-90	n.p.	312,960		22,139	1,221
1987—					
June qtr	4,224	65,207			325
September qtr	3,850	66,546			344
December qtr	3,417	69,475		Not available up to June quarter 1989	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.	79,855			298
June qtr	n.p.	87,532			310
September qtr	n.p.	88,465		6,231	333
December qtr	n.p.	84,241		6,595	345
1990—					
March qtr	n.p.	69,040		4,417	237
June qtr	n.p.	71,208		4,896	306

(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 copps.

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

Period	Tubes, pipes and hollow profiles, of iron and steel			Tube or pipe fittings, of iron or steel			
	Cast Iron (679.11)	Other		Cast Iron		Cast Steel (679.5a)	Other (679.61)
		Seamless (679.18)	Other (679.62)	Non- malleable (679.51)	Malleable (679.57)		
1989-90	79,936	9	n.p.	10,523	n.p.	n.p.	n.p.
1989—							
July	6,875	—	n.p.	862	n.p.	n.p.	n.p.
August	n.p.	1	n.p.	964	n.p.	n.p.	n.p.
September	n.p.	—	n.p.	815	n.p.	n.p.	n.p.
October	n.p.	—	n.p.	889	n.p.	n.p.	n.p.
November	8,241	—	n.p.	994	n.p.	n.p.	n.p.
December	5,185	6	n.p.	669	n.p.	n.p.	n.p.
1990—							
January	2,702	—	n.p.	675	n.p.	n.p.	n.p.
February	6,347	—	n.p.	841	n.p.	n.p.	n.p.
March	6,673	2	n.p.	959	n.p.	n.p.	n.p.
April	4,858	—	n.p.	802	n.p.	n.p.	n.p.
May	8,956	—	n.p.	1,082	n.p.	n.p.	n.p.
June	6,838	—	n.p.	971	n.p.	n.p.	n.p.
July	8,548	—	n.p.	945	n.p.	n.p.	n.p.

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

Period	Copper and alloy								
	Aluminium and alloy			Bars, rods and profiles					
	Bars, rods and profiles(a) (684.21)	Foil(b) (684.24)	Other (684.28)	Brass (682.36)	Other (682.35)	Wire rod and profiles (682.37)	Wire(c) (682.43)	Other (682.90)	Lead and alloy(d) (685.23)
1987-88	96,421	15,968	n.a.	21,313	5,012	n.a.	42,291	n.a.	n.a.
1988-89	103,406	15,603	n.a.	23,511	4,378	n.a.	42,757	n.a.	n.a.
1989-90	192,069	n.p.	1179,946		94,746		130,037	n.p.	5,084
1989—									
July	8,845	1,237	12,237		7,466		2,845	n.p.	1,079
August	19,618	1,315	18,042		n.p.		2,981	n.p.	421
September	8,270	1,146	16,513		n.p.		2,861	n.p.	381
October	8,308	1,326	15,573		n.p.		1,984	n.p.	297
November	9,194	n.p.	21,550		9,234		2,143	n.p.	384
December	6,820	n.p.	13,716		7,730		2,563	n.p.	326
1990—									
January	4,576	n.p.	9,480		3,766		795	n.p.	272
February	7,945	n.p.	9,814		9,684		2,470	n.p.	339
March	8,093	n.p.	13,476		11,617		3,367	n.p.	437
April	16,660	n.p.	17,952		7,656		2,583	n.p.	336
May	17,759	n.p.	15,789		7,762		2,898	n.p.	479
June	5,981	n.p.	15,804		7,720		12,547	n.p.	333
July	6,952	n.p.	12,289	1,758	n.p.	n.p.	2,419	n.p.	361

(a) Includes wire rod. Excludes profile decking and cladding prior to July 1989. (b) 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.

**TABLE 5. NON-FERROUS REFINED METALS(a)**

Period	Copper	Lead(b)	Tin	Zinc	Precious metals	
					Silver	Gold
1987-88	186	182	501	306	304,426	111,934
1988-89	211	184	377	303	305,013	169,653
1989-90	245	197	381	295	1368,378	233,301
1989—						
May	18.2	18.6	38	26.5	28,497	16,666
June	18.2	15.4	47	26.2	33,739	16,668
July	18.9	14.1	49	23.1	23,769	16,926
August	21.3	20.6	30	22.3	22,145	19,764
September	19.3	17.7	46	25.2	32,196	19,766
October	21.8	18.8	54	27.4	123,408	18,779
November	23.1	16.6	32	25.2	32,300	19,881
December	18.9	16.9	31	24.6	32,759	19,462
1990—						
January	20.5	4.0	18	26.9	12,368	19,404
February	19.5	12.4	28	23.2	26,780	18,422
March	19.0	20.3	28	24.7	37,653	19,897
April	18.5	18.2	17	19.8	41,171	17,678
May	23.6	19.8	22	25.7	45,286	123,468
June	20.4	17.8	26	26.6	38,543	19,854
July	20.5	24.9	n.y.a.	28.2	n.y.a.	n.y.a.

(a) Primary origin only. Compares 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.

## 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 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. ASCC 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, 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:

*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 monthly

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

*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 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

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