

MANUFACTURING INDUSTRY

NEW SOUTH WALES AND AUSTRALIAN CAPITAL TERRITORY

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■ For further information about these and related statistics, contact John Ridley on Sydney 02 9268 4541 or the National Information and Referral Service on 1300 135 070.

NOTES

ANNUAL MANUFACTURING INDUSTRY COLLECTION

The 1999–2000 collection was conducted as a sample survey of approximately 17,000 manufacturing establishments nationally, which were requested to provide data on employment, wages and salaries, turnover, purchases and whether their products were exported. A sub-sample of approximately 7,000 establishments was also asked to provide detailed structural and performance data, and value of sales for commodities produced.

ABOUT THIS ISSUE

The 1999–2000 series of these publications, *Manufacturing Industry*, *Australia* (Cat. no. 8221.0) and *Manufacturing Industry*, *[State]*, (Cat. nos 8221.1–8221.6) will be the last that present data for manufacturing establishments. Future manufacturing collections will no longer collect data from manufacturing establishments. Starting with the 2000–01 manufacturing collection, data will be sought from a sample of approximately 9,000 manufacturing businesses nationally. For more details, see the Appendix.

The ABS continues to use Australian Taxation Office (ATO) information on group employer (GE) registrations to delete from the ABS business register those businesses which have ceased trading or are no longer employing staff. The ABS has for some time used GE information to add new businesses to the business register; however, GE information to delete businesses from the business register was first used for the 1998–99 collection. For more details, see paragraphs 12–14 of the Explanatory Notes.

REGIONAL DATA

For information about the availability of sub-State estimates from the 1999–2000 collection, see paragraph 27 of the Explanatory Notes.

DATA TO BE RELEASED IN OTHER PUBLICATIONS

Detailed manufacturing industry statistics for each State are being released progressively in a series of publications, *Manufacturing Industry, [State], 1999–2000* (Cat. nos 8221.1–8221.6).

Management unit data and a wide range of manufacturing related ABS data, as well as data from other sources, will be presented in the compendium publication *Manufacturing, Australia, 2001* (Cat. no. 8225.0), to be released in December 2001. Management unit data at the total manufacturing level are also included in *Business Operations and Industry Performance, Australia, 1999–2000* (Cat. no. 8140.0).

Gregory W. Bray Regional Director, New South Wales

MAIN FEATURES

NEW SOUTH WALES

OVERVIEW

Turnover for the year 1999–2000 by manufacturing establishments operating in New South Wales was \$73,259m, which resulted in an industry value added (IVA) for the year of \$23,103m. For turnover, this represents a 2.9% increase in current price terms from the \$71,214m recorded for 1998–99. These manufacturing establishments employed 291,900 persons at the end of June 2000 and paid \$11,660m in wages and salaries in 1999–2000.

The percentage of Australian manufacturing employment in New South Wales at the end of June 2000 was 32.1%, a decrease of 0.1 percentage points on that reported at the end of June 1999. The New South Wales industry subdivisions which made a significant contribution to national manufacturing employment at the end of June 2000 at the industry subdivision level were Printing, publishing and recorded media (41.4%), Petroleum, coal, Chemical and Associated product manufacturing (34.3%) and Metal Product manufacturing (33.9%).

The percentage contribution by New South Wales to total Australian manufacturing turnover and IVA in 1999–2000 was 32.0% and 33.7% respectively. For turnover, this represents a decrease of 0.4 percentage points on the contribution reported in 1998–99, while for IVA, this represents an increase of 0.3 percentage points on the contribution reported in 1998–99. The New South Wales industry subdivisions which made a significant contribution to national manufacturing turnover and IVA in 1999–2000 at the industry subdivision level were also Printing, publishing and recorded media (45.5% and 43.5% respectively), Petroleum, coal, Chemical and associated product manufacturing (34.9% and 34.7% respectively) and Metal product manufacturing (34.8% and 37.1% respectively).

STATE/TERRITORY COMPARISON For the fourth consecutive year, for 1999–2000, the contribution to Australian turnover by New South Wales manufacturers (\$73,259m) was below that of manufacturers located in Victoria (\$74,312m). When this first occurred, for 1996–97, it was the first time that this had happened since the commencement of integrated economic statistics with the 1968–69 collection.

Between them, New South Wales (at 33.7%) and Victoria (at 32.4%) contributed nearly two-thirds of manufacturing IVA for Australia in 1999–2000. This ranking and that of the other States and Territories was unchanged from the previous year.

This is the third consecutive year that employment in the Victorian manufacturing industry has exceeded that for New South Wales. There is, however, a decrease of 0.3 percentage points for Victoria and a decrease of 0.1 percentage points for New South Wales on their contribution to national manufacturing employment recorded 12 months earlier, such that the gap has now narrowed considerably, with each State contributing 32.1% to Australian manufacturing employment.

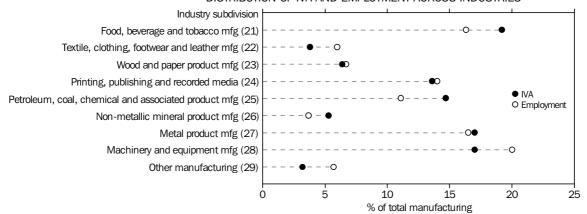
INDUSTRY VALUE ADDED

IVA for 1999–2000 was \$23,103m. The industry subdivisions with the largest contribution to total manufacturing IVA and the most notable industry classes within those subdivisions (as a percentage of New South Wales' total manufacturing IVA) were:

INDUSTRY VALUE ADDED continued

- FOOD, BEVERAGE AND TOBACCO MANUFACTURING (19.2%), where the industry classes Cereal food and baking Mix Manufacturing (ANZSIC Class 2152 at 1.9%), Poultry processing (ANZSIC Class 2112 at 1.8%), Food Manufacturing N.E.C. (ANZSIC Class 2179 at 1.7%) and Meat processing (ANZSIC Class 2111 at 1.6%) were the most substantial.
- Metal product manufacturing (17.0%), where the industry classes Basic iron and steel manufacturing (ANZSIC Class 2711 at 4.7%), Aluminium smelting (ANZSIC Class 2722 at 2.1%) and Structural Steel Fabricating (ANZSIC Class 2741 at 1.7%) were the most substantial.
- Machinery and equipment manufacturing (17.0%), where the industry classes Electronic equipment manufacturing n.e.c. (ANZSIC Class 2849 at 2.3%) and Aircraft manufacturing (ANZSIC Class 2824 at 2.2%) were the most substantial.
- Petroleum, coal, chemical and associated product manufacturing (14.7%), where the industry classes Medicinal and Pharmaceutical product manufacturing (ANZSIC Class 2543 at 3.2%) and Petroleum refining (ANZSIC Class 2510 at 1.6%) were the most substantial.

DISTRIBUTION OF IVA AND EMPLOYMENT ACROSS INDUSTRIES



Industry classes making a notable contribution to industry value added and not included in the subdivisions listed above included Newspaper printing or publishing (ANZSIC Class 2421 at 5.1%), Printing (ANZSIC Class 2412 at 3.7%) and Wooden structural component manufacturing (ANZSIC Class 2323 at 2.1%).

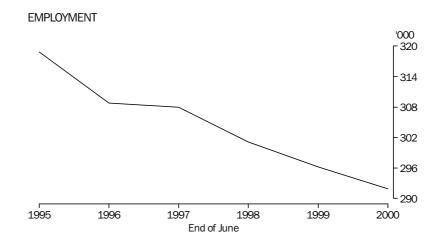
The New South Wales manufacturing industry subdivisions in 1999–2000 with the highest IVA per person employed were Non-metallic mineral product manufacturing at \$113,200 per person employed and Petroleum, coal, chemical and associated product manufacturing (at \$104,500).

EMPLOYMENT AND WAGES

The New South Wales manufacturing industry employed 291,900 persons at the end of June 2000 and paid \$11,660m in wages and salaries in 1999–2000. This represents an average of \$39,900 paid in annual wages and salaries per person employed at the end of June 2000, a decrease of 0.6% on the \$40,200 recorded twelve months earlier. (Readers should note that the employment figure in this average measures the number of persons employed at the end of June and includes working proprietors. The wages and salaries figure excludes the drawings of working proprietors.)

EMPLOYMENT AND WAGES

continued



New South Wales manufacturing employment decreased each year from June 1995 (318,300 persons) to June 2000. Employment in the New South Wales manufacturing industry decreased by 1.5% or 4,300 persons between June 1999 (296,300 persons) and June 2000 (291,900 persons). Over the five years from June 1995 to June 2000, employment decreased by 8.3% or 26,400 persons.

Between June 1999 and June 2000, employment decreased in five of the nine manufacturing industry subdivisions and increased in the other four. Metal product manufacturing recorded the largest decrease in absolute terms (down 3,700 persons), followed by Textile, clothing, footwear and leather manufacturing (down 2,100 persons). The same industry subdivisions recorded the largest percentage decreases, but in the reverse order – Textile, clothing, footwear and leather manufacturing (down 10.9% from 19,600 persons to 17,500 persons) and Metal product manufacturing (down 7.2% from 51,800 persons to 48,100 persons). Over the five year period from June 1995, employment in Textile, clothing, footwear and leather manufacturing has fallen by 32.2% (from 25,800 persons to 17,500 persons). The largest percentage and absolute increase between June 1999 and June 2000 was recorded by Wood and paper product manufacturing (up 15.1% from 17,000 persons to 19,600 persons).

Average wages and salaries paid per person employed at the end of June fell in six industry subdivisions and rose in the other three between 1998–99 and 1999–2000.

The industry subdivisions to record the largest percentage decreases in wages and salaries paid per person employed at the end of June were:

- Metal product manufacturing (down 5.2% from \$44,100 to \$41,800), where 8 (out of 20) industry classes recorded a decrease, with the largest being:
 - Basic non-ferrous metal manufacturing n.e.c. (ANZSIC Class 2729) (down 27.6% from \$34,500 to \$25,000);
 - Basic iron and steel manufacturing (ANZSIC Class 2711) (down 24.9% from \$69,100 to \$51,900);
 - Non-ferrous metal casting (ANZSIC Class 2733) (down 11.0% from \$31,400 to \$28,000); and
 - Structural metal product manufacturing n.e.c. (ANZSIC Class 2749) (down 11.0%
 — from \$32,800 to \$29,200).

MAIN FEATURES continued

EMPLOYMENT AND WAGES continued

- Other Manufacturing (down 2.7% from \$27,600 to \$26,900), where 5 (out of 9) industry classes recorded a decrease, with the largest being:
 - Manufacturing N.E.C. (ANZSIC Class 2949) (down 23.6% from \$30,600 to \$23,400); and
 - SHEET METAL FURNITURE MANUFACTURING (ANZSIC Class 2922) (down 19.9% from \$30,600 to \$24,500).

The largest industry class in this subdivision, Wooden furniture and upholstered seat manufacturing (ANZSIC Class 2921) recorded a small increase (up 3.2% — from \$25,700 to \$26,500) moderating the overall effect of the decreases in the smaller classes.

- Wood and paper product manufacturing (down 2.0% from \$36,100 to \$35,400), where 5 (out of 12) industry classes recorded a decrease, with the largest being:
 - Timber resawing and dressing (ANZSIC Class 2313) (down 21.0% from \$40,100 to \$31,600);
 - Log sawmilling (ANZSIC Class 2311) (down 14.2% from \$26,900 to \$23,000); and
 - Wood product manufacturing N.E.C. (ANZSIC Class 2329) (down 9.7% from \$25,200 to \$22,800).

The largest industry class in this subdivision, Wooden structural component manufacturing (ANZSIC Class 2323) recorded an increase (up 11.7% — from \$27,100 to \$30,300) moderating the overall effect of the decreases in the smaller classes.

The industry subdivision to record the largest percentage increase in wages and salaries paid per person employed at the end of June was:

■ Textile, Clothing, Footwear and leather manufacturing (up 6.5% — from \$28,600 to \$30,400), where 14 (out of 19) industry classes recorded an increase. A major cause of the increase in average wages and salaries for these industry classes was the reduction of employment through redundancies during the year which have the effect of temporarily increasing wages and salaries (which include severance, termination and redundancy payments) while also decreasing the level of employment at the end of June 2000.

TURNOVER

Turnover rose, in current price terms, by \$2,045m to 73,259m for 1999–2000. This represents a 2.9% increase on the 71,214m recorded for 1998–99.

For the third time and for the third consecutive year since ANZSIC industry data were introduced for 1989–90, Food, beverage and tobacco manufacturing is the largest contributor to total New South Wales manufacturing turnover. Metal product manufacturing was again the second largest contributor and all industries were ranked in the same order as they were in 1998–99.

Seven of the nine manufacturing industry subdivisions recorded an increase in turnover between 1998–99 and 1999–2000, while the other two recorded a decrease. The largest increase in percentage terms was recorded by Wood and paper product manufacturing (up 11.6%) and the largest increase in dollar terms was recorded by Printing, publishing and recorded media (up \$631m).

The industry classes (where publishable) with the largest percentage increases between 1998–99 and 1999–2000 were:

MAIN FEATURES continued

TURNOVER continued

- Non-ferrous pipe fitting manufacturing (ANZSIC Class 2765) (up 59.2% or \$53m); and
- Wooden structural component manufacturing (ANZSIC Class 2323) (up 38.9% or \$396m).

The industry classes (where publishable) with the largest dollar increases between 1998–99 and 1999–2000 were:

- Wooden structural component manufacturing (ANZSIC Class 2323) (up \$396m or 38.9%);
- Printing (ANZSIC Class 2412) (up \$391m or 19.7%);
- Fabricated metal product manufacturing N.E.C. (ANZSIC Class 2769) (up \$239m or 34.0%); and
- Wooden furniture and upholstered seat manufacturing (ANZSIC Class 2921) (up \$216m or 29.4%).

The industry classes (where publishable) with the largest percentage decreases between 1998–99 and 1999–2000 were:

- Basic non-ferrous metal manufacturing n.e.c. (ANZSIC Class 2729) (down 68.0% or \$15m);
- Non-ferrous metal casting (ANZSIC Class 2733) (down 44.0% or \$21m);
- Textile finishing (ANZSIC Class 2215) (down 43.8% or \$25m); and
- Seafood processing (ANZSIC Class 2173) (down 42.4% or \$63m).

The industry classes with the largest dollar decreases between 1998–99 and 1999–2000 were:

- Dairy product manufacturing N.E.C. (ANZSIC Class 2129) (down \$207m or 27.8%);
- Spring and wire product manufacturing (ANZSIC Class 2762) (down \$176m or 35.3%);
 and
- Mining and construction machinery manufacturing (ANZSIC Class 2862) (down \$173m or 27.7%).

EXPORTS

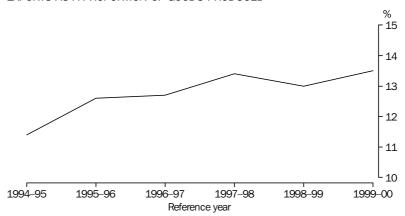
For 1999–2000, New South Wales manufacturers directly exported \$8,896m of the goods that they produced. This represents an increase of 6.3% on the \$8,371m recorded for 1998–99. Exports as a proportion of the total sales and transfers out of goods produced rose from 11.4% for 1994–95 to 13.4% for 1997–98, before falling (for the first time) to 13.0% for 1998–99, then increasing to 13.5% for 1999–2000.

Manufacturers' direct exports increased in six industry subdivisions and decreased in the other three between 1998–1999 and 1999–2000. The largest absolute and percentage increases in direct exports were recorded by Machinery and Equipment Manufacturing (up \$251m — from \$1,459m to \$1,710m or 17.2%) and Petroleum, coal, Chemical and associated product manufacturing (up \$204m — from \$1,193m to \$1,396m or 17.1%). Food, Beverage and tobacco Manufacturing (up \$135m — from \$2,036m to \$2,171m or 6.7%) had the next largest absolute increase. The largest dollar decrease was recorded by Metal product manufacturing (down \$86m or 3.2% — from \$2,719m to \$2,632m) (this subdivision, however, recorded the largest increase in direct exports in 1998–99).

Direct exports by establishments employing 100 or more persons increased by \$162m (or 2.8%), establishments employing 50–99 persons increased by \$99m (or 10.7%) and establishments employing 0–49 persons increased by \$264m (or 16.4%).

EXPORTS continued

EXPORTS AS A PROPORTION OF GOODS PRODUCED



AUSTRALIAN CAPITAL TERRITORY

Turnover for the year 1999–2000 by manufacturing establishments operating in the Australian Capital Territory was \$667.4m, which resulted in an industry value added (IVA) for the year of \$245.4m. For turnover, this represents an increase of 25.1% (or \$134m) on the figure recorded for 1998–99 (\$533.6m). Manufacturing employment at the end of June 2000 was 3,916 persons, an increase of 19.8% (or 647 persons) from the 3,269 persons recorded 12 months earlier. The percentage contribution by the Australian Capital Territory to total Australian manufacturing turnover and IVA in 1999–2000 was 0.3% and 0.4% respectively, with employment at the end of June 2000 contributing 0.4% to the national figure.

Printing, publishing and recorded media again was the largest contributor to total manufacturing employment at the end of June 2000 (40.5%), annual turnover (36.6%) and annual IVA (45.3%). Other large contributors were Machinery and equipment manufacturing (19.4%, 13.4% and 18.2% respectively) and Food, beverage and tobacco manufacturing (9.6%, 14.6% and 9.4% respectively). The smallest contributor again was Petroleum, coal, chemical and associated product manufacturing (0.7%, 0.5% and 0.5% respectively).

Six of the nine industry subdivisions recorded an increase in the level of employment between June 1999 and June 2000, with the remaining three recording decreases. Metal product manufacturing recorded the largest percentage increase for employment (up 37.3% — from 236 persons to 324 persons), while Printing, publishing and recorded media recorded the largest increase in absolute terms (up 369 persons or 30.3%).

For turnover, seven of the nine industry subdivisions recorded an increase between 1998–99 and 1999–2000. Non-metallic mineral product manufacturing had the largest percentage increase in turnover (up 73.7% — from \$28.4m to \$49.4m). Printing, publishing and recorded media recorded the largest increase in absolute terms (up \$44.7m — from \$199.5m to \$244.2m or 22.4%). Of the two industry subdivisions to record a decrease, Wood and paper product manufacturing recorded the largest percentage decrease in turnover (down 7.5% — from \$52.5m to \$48.6m), while Machinery and Equipment manufacturing recorded the largest decrease in absolute terms (down \$4.6m or 4.8% — from \$94.3m to \$89.7m).



							Turnover	Industry value
							per	added
	Employment			Industry	Industry	Wages and	person	per person
	at end of	Wages and		gross	value	salaries to	employed	employed
	June(d)	salaries(e)(f)	Turnover(f)	product(f)	added(f)	turnover(f)	(f)(g)	(f)(h)
Reference								
year	'000	\$m	\$m	\$m	\$m	ratio	\$'000	\$'000
		FOOD, B	EVERAGE AND	TOBACCO MA	NUFACTURIN	I G		
1999–2000	47.6	1 880.9	14 982.1		4 438.8	0.13	314.6	93.2
1998-99	r47.8	r1 908.5	r14 759.8		r4 084.1	0.13	r308.6	r85.4
1997–98	48.6	1 809.1	(i)14 077.3	(j)4 097.1	(j)4 214.5	0.13	289.8	86.7
1996-97	48.2	1 729.4	13 325.6	3 149.8		0.13	276.5	
1995–96	47.9	(k)1 596.1	12 981.2	3 279.7		0.12	271.2	
1994–95	49.2	1 562.5	12 732.1			0.12	258.6	
• • • • • • • • •	TI	EXTILE. CLOTH	ING, FOOTWEA	AR AND LEATH	ER MANUFA	CTURING	• • • • • • • •	
1000 0000		•	,				400.0	50.5
1999–2000	17.5	532.7	2 812.9		882.9	0.19	160.8	50.5
1998–99	r19.6	r561.4	r3 016.4		r954.0	0.19	r153.5	r48.6
1997–98	22.3	581.6	(i)3 098.9	(j)971.0	(j)999.2	0.19	139.2	44.9
1996–97	23.7	624.7	3 220.9	1 026.6		0.19	135.8	
1995–96	23.9	(k)592.8	3 236.7	1 038.9		0.18	135.6	
1994–95	25.8	630.8	3 241.2			0.19	125.6	
		WOOD	AND PAPER PI	RODUCT MANU	FACTURING			
1999–2000	19.6	691.9	4 067.3		1 472.8	0.17	207.9	75.3
1998–99	r17.0	r612.9	r3 645.6		r1 283.1	0.17	r214.6	r75.5
1997–98	18.8	626.7	(i)3 416.5	(j)1 148.4	(j)1 192.6	0.18	181.7	63.4
1996–97	18.8	622.3	3 384.0	1 157.6		0.18	179.5	
1995–96	20.6	(k)609.6	3 577.7	1 278.1		0.17	174.1	
1994–95	20.7	627.0	3 604.7	12.011		0.17	174.2	
100 1 00	2011	02.10	0 00		• • • • • • • • • • • • • • • • • • • •	0.1.		• •
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		PRINTI	NG, PUBLISHIN	NG AND RECOI	RDED MEDIA	<u> </u>		
1999–2000	40.8	1 662.7	7 834.3		3 137.0	0.21	191.8	76.8
1998–99	40.4	r1 659.4	r7 203.4		r2 840.5	0.23	r178.2	r70.3
1997–98	40.8	1 537.5	(i)6 751.5	(j)2 947.9	(j)2 827.4	0.23	165.5	69.3
1996–97	39.1	1 454.2	6 735.7	2 993.6		0.22	172.5	
1995-96	36.6	(k)1 359.6	6 325.0	2 892.2		0.21	173.0	
1994–95	37.8	1 318.9	6 055.5			0.22	160.0	
• • • • • • • • • • • • • • • • • • • •	PETROLI	EUM, COAL, C	HEMICAL AND	ASSOCIATED	PRODUCT M	ANUFACTU	RING	
1999–2000	32.4	1 499.4	12 561.9		3 388.4	0.12	387.3	104.5
1998–99	r33.5	r1 466.5	r12 214.3	• •	r3 281.6	0.12	r364.2	r97.8
1998–99	31.6	1 358.2	(i)11 922.6	(j)3 267.8	(j)3 382.8	0.12	377.6	107.1
1996–97	32.0	1 332.2	11 898.6	3 170.2	-	0.11	371.3	
1995–96								• •
	33.8	(k)1 308.5 1 250 7	11 546.2 11 420 9	3 228.2		0.11	341.6 354.2	• • •
1994–95	32.2	1 250.7	11 420.9	• •	• •	0.11	354.2	• •
• • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •

- .. not applicable
- r revised
- (a) See paragraph 6 of the Explanatory Notes.
- (b) Commencing from 1998–99, group employer information held by the Australian Taxation Office is being used to delete those businesses which have ceased trading or are no longer employing staff. See paragraphs 12–14 of the Explanatory Notes.
- (c) For factors affecting comparability of data over the time period shown, see paragraphs 15–21 of the Explanatory Notes.
- (d) Includes working proprietors.
- (e) Excludes the drawings of working proprietors.
- (f) Value data are at current prices and therefore do not discount the impact of price changes.

- (g) Turnover divided by the number of persons employed at the end of June.
- (h) Industry value added divided by the number of persons employed at the end of June.
- From the 1997–98 manufacturing collection and onwards, new international standards apply to the calculation of turnover. For more details, see paragraphs 15 and 16 of the Explanatory Notes.
- j) From the 1997–98 manufacturing collection and onwards, industry value added (IVA) replaces industry gross product (IGP) as the measure of an industry's contribution to gross domestic product. IGP has also been shown for 1997–98. For more details, see paragraphs 17 and 18 of the Explanatory Notes.
- k) For 1995–96, excludes provision expenses for employee entitlements. See paragraph 20 of the Explanatory Notes.

Industry



	Employment at end of June(d)	Wages and salaries(e)(f)	Tumover(f)	Industry gross product(f)	Industry value added(f)	Wages and salaries to turnover(f)	Turnover per person employed (f)(g)	Industry value added per person employed (f)(h)
Reference			,	,	,		(7,0)	,,,,
year	'000	\$m	\$m	\$m	\$m	ratio	\$'000	\$'000
• • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •
		NON-META	LLIC MINERAL	PRODUCT MA	ANUFACTURI	NG		
1999–2000	10.9	491.8	3 499.7		1 229.0	0.14	322.4	113.2
1998-99	10.4	r463.6	r3 304.5		r1 071.4	0.14	r317.1	r102.8
1997-98	10.5	418.3	(i)2 774.3	(j)864.1	(j)901.3	0.15	263.8	85.7
1996-97	11.4	422.1	2 690.1	831.9		0.16	236.4	
1995-96	11.3	(k)385.0	2 632.6	887.9		0.15	232.9	
1994–95	12.2	424.2	2 897.6			0.15	236.9	
		N	METAL PRODUC	T MANUFACTU	JRING			
1000 0000	40.4							
1999–2000	48.1	2 011.8	14 126.5	• •	3 934.3	0.14	293.6	81.8
1998–99	51.8	r2 286.8	r13 601.5		r4 141.9	0.17	262.5	r79.9
1997–98	52.2	2 184.4	(i)13 463.4	(j)4 261.3	(j)4 417.5	0.16	257.7	84.6
1996–97	53.5	2 217.8	13 904.8	4 070.6		0.16	260.1	
1995–96	52.2	(k)2 043.0	13 950.0	4 306.4		0.15	267.5	
1994–95	56.7	2 163.7	13 667.4	• •	• •	0.16	241.2	• •
		MACHIN	IERY AND EQU	IPMENT MANU	JFACTURING			
1999–2000	58.4	2 442.7	11 306.9		3 928.6	0.22	193.6	67.3
1999-2000	59.5	r2 505.3	r11 498.9		r4 008.4	0.22	193.0	r67.4
1998–99	60.3	2 415.4	(i)10 371.1	(j)3 619.9	(j)3 797.5	0.22	172.0	63.0
1997–98	64.6	2 444.4	10 703.6	3 745.8	(),3 191.5	0.23	165.6	
1995–96	66.4	(k)2 306.9	10 703.0	3 763.1		0.23	161.2	
1993–96	67.2	(k)2 300.9 2 217.2	10 458.8	3 703.1		0.22	155.7	
1994-95	01.2	2 211.2	10 436.6	• •	• •	0.21	155.7	• • •
• • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •
			OTHER MA	NUFACTURING	ì			
1999–2000	16.6	446.3	2 067.4		691.4	0.22	124.4	41.6
1998–99	16.1	444.5	1 969.6		r736.5	0.23	122.4	r45.8
1997–98	16.0	429.2	(i)1 953.6	(j)663.4	(j)687.4	0.22	121.9	42.9
1996–97	16.6	420.1	1 934.5	684.4		0.22	116.4	
1995–96	16.3	(k)399.6	1 874.6	688.2		0.21	115.2	
1994–95	16.5	405.3	1 852.2			0.22	112.3	
• • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • •	TOTAL NAA	NULEA OTUDINO	• • • • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • •
			IUIAL MA	NUFACTURING				
1999–2000	291.9	11 660.1	73 259.1		23 103.1	0.16	250.9	79.1
1998–99	r296.3	r11 908.9	r71 213.9		r22 401.5	0.17	r240.4	r75.6
1997–98	301.1	11 360.4	(i)67 829.2	(j)21 841.0	(j)22 420.2	0.17	225.3	74.5
1996–97	308.0	11 267.2	67 797.7	20 830.5		0.17	220.2	
1995–96	308.8	(k)10 601.0	66 837.9	21 362.6		0.16	216.4	
1994–95	318.3	10 600.4	65 930.3			0.16	207.1	

- .. not applicable
- r revised
- (a) See paragraph 6 of the Explanatory Notes.
- (b) Commencing from 1998–99, group employer information held by the Australian Taxation Office is being used to delete those businesses which have ceased trading or are no longer employing staff. See paragraphs 12–14 of the Explanatory Notes.
- (c) For factors affecting comparability of data over the time period shown, see paragraphs 15–21 of the Explanatory Notes.
- (d) Includes working proprietors.
- (e) Excludes the drawings of working proprietors.
- (f) Value data are at current prices and therefore do not discount the impact of price changes.

- (g) Turnover divided by the number of persons employed at the end of June.
- (h) Industry value added divided by the number of persons employed at the end of June.
- (i) From the 1997–98 manufacturing collection and onwards, new international standards apply to the calculation of turnover. For more details, see paragraphs 15 and 16 of the Explanatory Notes.
- j) From the 1997–98 manufacturing collection and onwards, industry value added (IVA) replaces industry gross product (IGP) as the measure of an industry's contribution to gross domestic product. IGP has also been shown for 1997–98. For more details, see paragraphs 17 and 18 of the Explanatory Notes.
- (k) For 1995–96, excludes provision expenses for employee entitlements. See paragraph 20 of the Explanatory Notes.



MANUFACTURING ESTABLISHMENTS(a), Industry Class—NSW

		Employment at end of	Wages and		Industry value	Turnover per person	Industry value added per person
INDUSTRY	CLASS	• June(b)	salaries(c)	Turnover	added	employed(d)	employed(e)
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
• • • • • • •		• • • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •
	FOOD, BEVERAGE AND TOBACCO MFG						
211	Meat and meat product mfg						
2111	Meat processing	7 194	256.7	1 706.9	373.8	237.3	52.0
2112	Poultry processing	6 740	224.5	1 263.0	408.4	187.4	60.6
2113	Bacon, ham and smallgood mfg	1 505	54.5	385.9	97.6	256.3	64.8
	Total	15 439	535.7	3 355.8	879.7	217.4	57.0
212	Dairy product mfg						
2121	Milk and cream processing	1 170	54.4	559.8	132.0	478.3	112.8
2122	Ice cream mfg	844	35.1	249.9	74.6	296.0	88.4
2129	Dairy product mfg n.e.c.	1 361	67.3	536.4	123.4	394.0	90.6
	Total	3 376	156.8	1 346.1	330.0	398.7	97.7
213	Fruit and vegetable processing	2 485	109.2	878.9	225.2	353.6	90.6
214	Oil and fat mfg	532	37.6	422.7	100.0	794.4	187.9
215	Flour mill and cereal food mfg						
2151	Flour mill product mfg	1 316	58.1	842.5	208.2	640.4	158.2
2152	Cereal food and baking mix mfg	2 374	80.6	1 264.9	447.7	532.8	188.6
	Total	3 690	138.7	2 107.4	655.9	571.2	177.8
216	Bakery product mfg						
2161	Bread mfg	3 545	136.0	450.4	176.2	127.1	49.7
2162	Cake and pastry mfg	2 586	77.7	366.5	125.4	141.7	48.5
2163	Biscuit mfg	891	34.4	269.7	123.0	302.8	138.1
	Total	7 022	248.1	1 086.6	424.6	154.7	60.5
217	Other food mfg						
2171	Sugar mfg	533	np	np	np	np	np
2172	Confectionery mfg	1 513	np	np	np	np	np
2173	Seafood processing	402	17.0	85.8	15.6	213.4	38.8
2174	Prepared animal and bird feed mfg	2 035	108.5	980.5	232.4	481.8	114.2
2179	Food mfg n.e.c.	5 047	204.3	1 078.5	384.6	213.7	76.2
	Total	9 530	407.3	2 710.7	822.4	284.5	86.3
218	Beverage and malt mfg						
2181	Soft drink, cordial and syrup mfg	2 050	84.7	996.5	309.5	486.0	150.9
2182	Beer and malt mfg	883	np	np	np	np	np
2183	Wine mfg	2 002	62.8	702.0	204.9	350.6	102.4
2184	Spirit mfg	126	np	np	np	np	np
	Total	5 061	209.5	2 658.4	826.0	525.2	163.2
219	Tobacco product mfg	485	38.0	415.5	175.0	856.7	360.7
21	Total food, beverage and tobacco mfg	47 620	1 880.9	14 982.1	4 438.8	314.6	93.2
	TEXTILE, CLOTHING, FOOTWEAR AND LEATHER MFG						
221	Textile fibre, yarn and woven fabric mfg						
2211	Wool scouring	635	np	np	np	np	np
2212	Synthetic fibre textile mfg	1 014	39.5	255.9	61.1	252.3	60.2
2213	Cotton textile mfg	547	35.1	114.2	30.0	208.8	54.9
2214	Wool textile mfg	448	np	np	np	np	np
2215	Textile finishing	231	8.4	32.6	13.8	141.2	59.7
	Total	2 876	127.9	589.2	177.3	204.9	61.7

np not available for publication but included in totals where applicable, unless otherwise indicated

⁽a) See paragraph 6 of the Explanatory Notes.

⁽b) Includes working proprietors.

⁽c) Excludes the drawings of working proprietors.

⁽d) Turnover divided by the number of persons employed at the end of June.

⁽e) Industry value added divided by the number of persons employed at the end of June.



${\tt MANUFACTURING\ ESTABLISHMENTS(a),\ Industry\ Class-NSW\ {\it continued}}$

INDUSTRY	CLASS	Employment at end of June(b)	Wages and salaries(c)	Turnover	Industry value added	Turnover per person employed(d)	Industry value added per person employed(e)
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
	2000, p. 10.	110.	ΨΠ	ψιιι	ΨΠ	Ψ000	Ψ000
• • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • •	•	• • • • • • • •
	TEXTILE, CLOTHING, FOOTWEAR AND LEATHER MFC	cont.					
222	Textile product mfg						
2221	Made-up textile product mfg	1 513	42.5	217.6	71.0	143.9	46.9
2222	Textile floor covering mfg	344	14.2	78.4	25.0	227.8	72.8
2223	Rope, cordage and twine mfg	*109	*3.2	*14.0	*4.7	**129.0	**43.3
2229	Textile product mfg n.e.c.	444	10.6	58.2	15.6	131.1	35.1
	Total	2 410	70.6	368.3	116.3	152.8	48.3
223	Knitting mills						
2231	Hosiery mfg	348	np	np	np	np	np
2232 2239	Cardigan and pullover mfg Knitting mill product mfg n.e.c.	745 752	np 23.8	np 201.3	np 66.4	np 267.8	np 88.3
2239	Total	1 845	23.8 51.8	201.3 361.7	104.3	267.8 196.1	56.6
	Total	1 043	31.6	301.7	104.5	190.1	30.0
224	Clothing mfg						
2241	Men's and boys' wear mfg	2 157	57.8	218.3	80.2	101.2	37.2
2242	Women's and girls' wear mfg Sleepwear, underwear and infant clothing mfg	2 725	76.7 21.2	557.4	168.2	204.6	61.7
2243 2249	Clothing mfg n.e.c.	621 3 340	21.2 81.7	81.2 417.8	27.3 146.6	130.7 125.1	44.0 43.9
2249	Total	8 843	237.4	1 274.7	422.3	144.1	43.9 47.8
225	Footwear mfg	940	24.4	78.8	34.0	83.8	36.1
226	Leather and leather product mfg						
2261	Leather tanning and fur dressing	402	17.1	120.5	21.6	300.0	53.9
2262	Leather and leather substitute product mfg Total	183 58 <i>4</i>	3.5 20.6	19.7 140.2	7.0 28.6	108.1 240.0	38.3 49.0
	Total	364	20.0	140.2	20.0	240.0	49.0
22	Total textile, clothing, footwear and leather mfg	17 497	532.7	2 812.9	882.9	160.8	50.5
	WOOD AND PAPER PRODUCT MFG						
231	Log sawmilling and timber dressing						
2311	Log sawmilling	1 417	32.6	199.4	71.5	140.7	50.4
2312	Wood chipping	123	5.9	58.2	28.4	472.3	230.9
2313	Timber resawing and dressing Total	1 276 2 817	40.4 78.9	263.0 520.7	105.8 205.7	206.0 184.8	82.9 73.0
	Total	2 017	76.9	520.7	203.7	104.0	73.0
232	Other wood product mfg						
2321	Plywood and veneer mfg	427	13.3	73.1	28.8	171.4	67.5
2322	Fabricated wood mfg	831	39.4	294.8	87.4	354.9	105.3
2323 2329	Wooden structural component mfg Wood product mfg n.e.c.	9 011 1 504	273.1 34.3	1 412.2 164.2	484.4 58.2	156.7 109.2	53.7 38.7
2329	Total	11 773	360.1	1 944.3	658.8	165.2	56.0
		-		-			
233	Paper and paper product mfg	4.0=0	7.0	050.0	000 =		200
2331 2332	Pulp, paper and paperboard mfg	1 273	74.0	658.6	292.7	517.2	229.9
2332	Solid paperboard container mfg Corrugated paperboard container mfg	1 191 1 177	60.6	259.3	96.2	217.8	80.8
2334	Paper bag and sack mfg	249	np np	np np	np np	np np	np np
2339	Paper product mfg n.e.c.	1 084	40.7	299.9	90.2	276.7	83.2
	Total	4 973	252.9	1 602.3	608.3	322.2	122.3
23	Total wood and paper product mfg	10 563	691.9	4.067.3	1 470 0	207.9	75.9
23	rotal wood and paper product fing	19 563	031.3	4 067.3	1 472.8	201.9	75.3

estimate has a relative standard error of between 25% and 50% and should be
used with caution

(a) See paragraph 6 of the Explanatory Notes.
(b) Includes working proprietors.

estimate has a relative standard error greater than 50% and is considered too (c) Excludes the drawings of working proprietors. unreliable for general use

np not available for publication but included in totals where applicable, unless otherwise indicated

⁽d) Turnover divided by the number of persons employed at the end of June.

⁽e) Industry value added divided by the number of persons employed at the end of June.



${\tt MANUFACTURING\ ESTABLISHMENTS(a),\ Industry\ Class-NSW\ {\it continued}}$

		Employment at end of	Wages and		Industry value	Turnover per person	Industry value added per person
INDUSTRY	CLASS	June(b)	salaries(c)	Turnover	added	employed(d)	employed(e)
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
• • • • • • •		• • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •
	PRINTING, PUBLISHING AND RECORDED MEDIA						
241	Printing and services to printing						
2411 2412	Paper stationery mfg Printing	2 020 14 741	78.7 538.5	344.8 2 381.2	121.5 862.2	170.7 161.5	60.1 58.5
2413	Services to printing	2 467	89.6	272.6	127.8	110.5	51.8
	Total	19 228	706.8	2 998.6	1 111.5	156.0	57.8
242	Publishing						
2421	Newspaper printing or publishing	11 871	534.4	2 604.1	1 172.3	219.4	98.8
2422	Other periodical publishing	5 319	247.1	1 055.7	349.2	198.5	65.6
2423	Book and other publishing Total	3 264 20 454	123.6 905.1	670.0 4 329.8	205.1 1 726.6	205.3 211.7	62.8 84.4
0.40							
243	Recorded media manufacturing and publishing	1 159	50.9	505.8	298.9	436.5	258.0
24	Total printing, publishing and recorded media PETROLEUM, COAL, CHEMICAL AND	40 841	1 662.7	7 834.3	3 137.0	191.8	76.8
	ASSOCIATED PRODUCT MFG						
251	Petroleum refining	1 225	76.3	2 630.4	365.2	2 147.5	298.1
252	Petroleum and coal product mfg n.e.c.	365	24.3	247.5	78.5	677.6	214.8
253	Basic chemical mfg						
2531 2532	Fertiliser mfg	np	np	np	np	np	np
2532	Industrial gas mfg Synthetic resin mfg	np 900	np 52.7	np 530.2	np 143.4	np 588.9	np 159.3
2534	Organic industrial chemical mfg n.e.c.	366	22.9	261.0	62.8	712.2	171.3
2535	Inorganic industrial chemical mfg n.e.c.	1 218	75.2	459.2	142.1	377.0	116.7
	Total	3 124	186.9	1 494.5	426.3	478.4	136.5
254	Other chemical product mfg						
2541	Explosive mfg	596	np	np	np	np	np
2542 2543	Paint mfg	1 959 5 638	81.9 303.7	484.8 2 637.5	152.7 728.4	247.5 467.9	78.0 129.2
2543 2544	Medicinal and pharmaceutical product mfg Pesticide mfg	375	23.6	431.1	130.1	1 151.0	347.3
2545	Soap and other detergent mfg	1 514	83.8	777.8	198.4	513.9	131.1
2546	Cosmetic and toiletry preparation mfg	3 027	121.6	774.5	199.8	255.9	66.0
2547	Ink mfg	233	np	np	np	np	np
2549	Chemical product mfg n.e.c.	1 288	61.5	377.2	120.2	293.0	93.4
	Total	14 628	721.6	5 763.2	1 630.7	394.0	111.5
255	Rubber product mfg	070	0.7	50.0	45.5	1010	50.7
2551 2559	Rubber tyre mfg Rubber product mfg n.e.c.	273 931	8.7 34.5	50.2 144.8	15.5 59.2	184.0 155.7	56.7 63.6
2009	Total	1 203	43.2	195.0	74.7	162.1	62.0
256	Plastic product mfg						
2561	Plastic blow moulded product mfg	1 189	47.7	276.0	105.2	232.2	88.5
2562	Plastic extruded product mfg	1 270	51.7	316.8	105.7	249.4	83.2
2563	Plastic bag and film mfg	2 105	90.3	431.6	135.1	205.0	64.2
2564 2565	Plastic product rigid fibre reinforced mfg	1 166	36.2	176.9	59.2	151.7	50.8
2565 2566	Plastic foam product mfg Plastic injection moulded product mfg	1 097 5 062	42.5 178.8	224.2 805.8	76.2 331.7	204.4 159.2	69.5 65.5
2000	Total	11 889	447.2	2 231.4	813.0	187.7	68.4
25	Total petroleum, coal, chemical and associated						
25	product mfg	32 434	1 499.4	12 561.9	3 388.4	387.3	104.5

not available for publication but included in totals where applicable, unless otherwise indicated

⁽a) See paragraph 6 of the Explanatory Notes.

⁽b) Includes working proprietors.

⁽c) Excludes the drawings of working proprietors.

⁽d) Turnover divided by the number of persons employed at the end of June.

⁽e) Industry value added divided by the number of persons employed at the end of June.



MANUFACTURING ESTABLISHMENTS (a), Industry Class—NSW continued

INDUSTRY	CLASS	Employment at end of June(b)	Wages and salaries(c)	Tumover	Industry value added	Turnover per person employed(d)	Industry value added per person employed(e)
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
• • • • • • •			• • • • • • • • • •		• • • • • • • •	• • • • • • • •	• • • • • • •
	NON-METALLIC PRODUCT MFG						
261	Glass and glass product mfg	1 588	71.4	332.1	116.9	209.2	73.6
262	Ceramic mfg						
2621	Clay brick mfg	1 002	49.1	286.0	106.9	285.4	106.6
2622	Ceramic product mfg	590	30.4	162.1	58.2	274.9	98.7
2623	Ceramic tile and pipe mfg	62	np	np	np	np	np
2629	Ceramic product mfg n.e.c. Total	536 2 190	np 107.8	np 619.0	np 240.7	np 282.7	np 109.9
	Total	2 190	107.0	019.0	240.1	202.1	109.9
263	Cement, lime, plaster and concrete product mfg						
2631	Cement and lime mfg	513	np	np	np	np	np
2632	Plaster product mfg	601	20.4	207.2	94.4	344.8	157.1
2633 2634	Concrete slurry mfg	2 259 285	103.0	1 057.1	229.8	468.0	101.7
2635	Concrete pipe and box culvert mfg Concrete product mfg n.e.c.	1 522	np 62.7	np 451.9	np 192.3	np 297.0	np 126.4
2000	Total	5 179	235.8	2 067.7	677.2	399.3	130.8
264	Non-metallic mineral product mfg n.e.c.	1 900	76.8	480.9	194.2	253.1	102.2
26	Total non-metallic mineral product mfg	10 856	491.8	3 499.7	1 229.0	322.4	113.2
	METAL PRODUCT MFG						
271	Iron and steel mfg						
2711	Basic iron and steel mfg	9 881	512.5	4 772.8	1 082.1	483.0	109.5
2712	Iron and steel casting and forging	1 714	83.5	425.7	185.5	248.4	108.2
2713	Steel pipe and tube mfg	1 344	74.0	503.3	135.7	374.6	101.0
	Total	12 939	670.0	5 701.8	1 403.3	440.7	108.5
272	Basic non-ferrous metal mfg						
2721 2722	Alumina production Aluminium smelting	1 796	 113.5	 1 545.9	— 482.7	860.5	268.7
2723	Copper, silver, lead and zinc smelting, refining	686	32.9	271.3	61.9	395.6	90.2
2729	Basic non-ferrous metal mfg n.e.c.	41	1.0	7.0	0.9	168.7	21.8
	Total	2 524	147.5	1 824.2	545.4	722.8	216.1
070							
273 2731	Non-ferrous basic metal product mfg Aluminium rolling, drawing, extruding	1 564	84.0	661.4	121.8	422.8	77.9
2732	Non-ferrous metal rolling, drawing,	1 504	64.0	001.4	121.0	422.0	11.9
2102	extruding n.e.c.	1 031	49.7	581.7	135.6	564.3	131.5
2733	Non-ferrous metal casting	289	8.1	26.7	11.1	92.4	38.4
	Total	2 884	141.8	1 269.7	268.5	440.3	93.1
074	Characterial acceptations deserting						
274 2741	Structural metal product mfg Structural steel fabricating	6 070	227.6	1 384.7	390.1	228.1	64.3
2741 2742	Architectural aluminium product mfg	4 789	162.2	900.1	284.2	187.9	59.3
2749	Structural metal product mfg n.e.c.	*2 204	*64.3	*339.2	*99.7	153.9	45.2
	Total	13 063	454.1	2 624.0	774.0	200.9	59.2
275	Sheet metal product mfg						
27 5 2751	Metal container mfg	1 273	73.2	329.6	108.6	259.0	85.3
2759	Sheet metal product mfg n.e.c.	4 500	142.6	608.5	222.4	135.2	49.4
	Total	5 773	215.8	938.2	331.0	162.5	57.3
					• • • • • • • •		• • • • • • • •

not available for publication but included in totals where applicable, unless (b) Includes working proprietors. otherwise indicated

nil or rounded to zero (including null cells)

estimate has a relative standard error of between 25% and 50% and should be (e) Industry value added divided by the number of persons employed at the end of used with caution

⁽a) See paragraph 6 of the Explanatory Notes.

⁽c) Excludes the drawings of working proprietors.

⁽d) Turnover divided by the number of persons employed at the end of June.

June.



MANUFACTURING ESTABLISHMENTS (a), Industry Class—NSW continued

INDUSTRY	CLASS	Employment at end of June(b)	Wages and salaries(c)	Turnover	Industry value added	Turnover per person employed(d)	Industry value added per person employed(e)
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
		• • • • • • • • • •			• • • • • • • •		• • • • • • •
	METAL PRODUCT MFG cont.						
276	Fabricated metal product mfg						
2761	Hand tool and general hardware mfg	489	16.6	82.5	34.8	168.5	71.1
2762	Spring and wire product mfg	1 439	50.7	322.3	93.0	224.0	64.7
2763	Nut, bolt, screw and rivet mfg	257	8.7	37.9	13.5	147.4	52.4
2764	Metal coating and finishing	1 826	61.6	239.0	105.6	130.9	57.8
2765	Non-ferrous pipe fitting mfg	964	40.6	143.7	55.9	149.0	57.9
2769	Fabricated metal product mfg n.e.c.	5 950	204.4	943.3	309.3	158.5	52.0
	Total	10 925	382.6	1 768.7	612.0	161.9	56.0
27	Total metal product mfg	48 107	2 011.8	14 126.5	3 934.3	293.6	81.8
	MACHINERY AND EQUIPMENT MFG						
281	Motor vehicle and part mfg						
2811	Motor vehicle mfg	_	_	_		_	_
2812	Motor vehicle body mfg	1 767	50.5	243.8	75.7	138.0	42.9
2813 2819	Automotive electrical and instrument mfg Automotive component mfg n.e.c.	1 002 3 766	32.7 137.6	153.8 741.9	56.0 246.5	153.5 197.0	55.9 65.5
2819	Total	6 534	220.8	1 139.5	378.3	197.0	57.9
	Total	0 334	220.0	1 139.5	370.3	114.4	31.9
282	Other transport equipment mfg						
2821	Shipbuilding	1 888	98.9	353.1	113.0	187.0	59.9
2822	Boatbuilding	1 086	27.9	113.7	40.5	104.7	37.3
2823	Railway equipment mfg	1 141	42.6	217.8	80.3	190.8	70.4
2824	Aircraft mfg	5 323	315.4	979.2	516.1	184.0	97.0
2829	Transport equipment mfg n.e.c.	*18	*0.3	*1.7	*0.4	**97.5	**21.3
	Total	9 456	485.0	1 665.5	750.3	176.1	79.3
283	Photographic and scientific equipment mfg						
2831	Photographic and optical good mfg	392	13.8	53.9	15.6	137.4	39.7
2832	Medical and surgical equipment mfg	2 154	69.1	425.2	164.6	197.4	76.4
2839	Professional and scientific equipment	4 440	50.4	075.0	00.4	101.0	04.0
	mfg n.e.c. <i>Total</i>	1 440 3 986	59.4 142.2	275.9 755.0	89.1 269.2	191.6 189.4	61.9 67.5
	iotai	3 900	142.2	755.0	209.2	109.4	67.5
284	Electronic equipment mfg						
2841	Computer and business machine mfg	791	34.0	423.4	53.4	535.2	67.5
2842	Telecommunication, broadcasting and						
	transceiving equipment mfg	2 156	117.7	553.0	187.0	256.4	86.7
2849	Electronic equipment mfg n.e.c.	7 153	296.9	1 627.0	523.7	227.5	73.2
	Total	10 100	448.6	2 603.4	764.1	257.8	75.6
285	Electrical equipment and appliance mfg						
2851	Household appliance mfg	3 654	147.8	712.3	216.7	195.0	59.3
2852	Electric cable and wire mfg	1 746	81.2	649.0	178.4	371.8	102.2
2853	Battery mfg	233	np	np	np	np	np
2854	Electric light and sign mfg	2 368	np	np	np	np	np
2859	Electrical equipment mfg n.e.c.	5 124	199.8	850.3	318.1	165.9	62.1
	Total	13 124	517.1	2 572.8	846.5	196.0	64.5

nil or rounded to zero (including null cells)

estimate has a relative standard error of between 25% and 50% and should be (b) Includes working proprietors. used with caution

estimate has a relative standard error greater than 50% and is considered too unreliable for general use

not available for publication but included in totals where applicable, unless otherwise indicated

⁽a) See paragraph 6 of the Explanatory Notes.

⁽c) Excludes the drawings of working proprietors.

⁽d) Turnover divided by the number of persons employed at the end of June.

⁽e) Industry value added divided by the number of persons employed at the end of June.



${\tt MANUFACTURING\ ESTABLISHMENTS(a),\ Industry\ Class-NSW\ {\it continued}}$

INDUSTRY	CLASS	Employment at end of June(b)	Wages and salaries(c)	Turnover	Industry value added	Turnover per person employed(d)	Industry value added per person employed(e)
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
• • • • • • •		• • • • • • • • •	• • • • • • • • •		• • • • • • • •	• • • • • • • • •	• • • • • • • •
	MACHINERY AND EQUIPMENT MFG cont.						
286	Industrial machinery and equipment mfg						
2861	Agricultural machinery mfg	961	33.2	153.3	49.5	159.5	51.5
2862	Mining and construction machinery mfg	2 255	100.8	451.9	121.2	200.4	53.8
2863	Food processing machinery mfg	*554	16.7	78.9	27.6	*142.4	49.9
2864	Machine tool and part mfg	1 545	61.1	186.2	86.1	120.5	55.7
2865	Lifting and material handling equipment mfg	3 714	182.5	704.1	256.7	189.6	69.1
2866	Pump and compressor mfg	989	46.8	205.4	89.4	207.6	90.4
2867	Commercial space heating and cooling	1 170	48.5	212.4	04.0	101.6	72.6
2869	equipment mfg Industrial machinery and equipment mfg n.e.c.	1 170 4 009	48.5 139.3	212.4 578.4	84.9 204.7	181.6 144.3	72.6 51.0
2009	Total	4 009 15 198	628.9	2 570.7	920.2	169.1	60.5
	Total	13 130	020.9	2 510.1	920.2	109.1	00.5
28	Total machinery and equipment mfg	58 399	2 442.7	11 306.9	3 928.6	193.6	67.3
	OTHER MANUFACTURING						
291	Prefabricated building mfg						
2911	Prefabricated metal building mfg	344	11.4	78.0	20.4	226.9	59.2
2919	Prefabricated building mfg n.e.c.	171	4.3	24.5	7.4	143.3	43.4
	Total	515	15.7	102.5	27.8	199.2	54.0
000	E will be wife						
292 2921	Furniture mfg Wooden furniture and upholstered seat mfg	7 864	208.3	949.7	315.7	120.8	40.1
2921	Sheet metal furniture mfg	1 689	208.3 41.3	186.9	55.6	110.7	32.9
2923	Mattress mfg (except rubber)	832	25.1	136.4	54.3	163.9	65.2
2929	Furniture mfg n.e.c.	2 492	78.0	336.3	122.9	134.9	49.3
2020	Total	12 878	352.7	1 609.2	548.5	125.0	42.6
294	Miscellaneous mfg						
2941	Jewellery and silverware mfg	952	24.0	132.6	40.0	139.3	42.0
2942	Toy and sporting good mfg	645	15.9	61.3	22.2	94.9	34.4
2949	Manufacturing n.e.c.	1 622	37.9	161.7	52.9	99.7	32.6
	Total	3 220	77.8	355.6	115.0	110.4	35.7
29	Total other manufacturing	16 613	446.3	2 067.4	691.4	124.4	41.6
21–29	TOTAL MANUFACTURING	291 930	11 660.1	73 259.1	23 103.1	250.9	79.1

estimate has a relative standard error of between 25% and 50% and should be used with caution

⁽a) See paragraph 6 of the Explanatory Notes.

⁽b) Includes working proprietors.

⁽c) Excludes the drawings of working proprietors.

⁽d) Turnover divided by the number of persons employed at the end of June.

⁽e) Industry value added divided by the number of persons employed at the end of June.



MANUFACTURING ESTABLISHMENTS(a), Employment Size(b)—NSW

	Employme	nt	Wages and				Industry valu	e
	at end of	June(c)	Salaries (d) (e		Turnover(e)	added(e) .	
Employment size group	no.	%	\$m	%	\$m	%	\$m	%
• • • • • • • • • • • • • • • • • • •			/ERAGE AND TOB		IIIEACTIIDIN		• • • • • • • • • • • • •	• • • • • •
		•						
0–4 persons	1 017 1 748	2.1 3.7	16.0 37.0	0.9 2.0	176.6 184.5	1.2 1.2	31.3 64.2	0.7 1.5
5–9 persons 10–19 persons	3 034	5. <i>1</i> 6.4	75.9	2.0 4.1	536.1	3.6	123.0	2.8
20–49 persons	5 017	10.5	151.4	8.1	1 462.6	9.8	446.4	10.1
50–99 persons	5 061	10.6	177.0	9.5	1 669.1	11.2	429.0	9.7
Total less than 100 persons	15 878	33.3	457.2	24.5	4 028.9	27.1	1 093.9	24.8
100-199 persons	5 538	11.6	252.3	13.5	2 236.0	15.0	588.0	13.3
200–499 persons	12 449	26.1	575.1	30.8	5 351.9	36.0	1 695.9	38.4
500–999 persons	np	np	np	np	np	np	np	np
1 000 or more persons	np	np	np	np	np	np	np	np
Total 100 or more persons	31 742	66.7	1 407.2	75.5	10 835.3	72.9	3 323.4	75.2
Total	47 620	100.0	1 864.4	100.0	14 864.2	100.0	4 417.3	100.0
• • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • •	• • • • • • • •			• • • • • • • • • • • • •	
	TEXTILE	, CLOTHIN	NG, FOOTWEAR A	ND LEATH	ER MANUFA	CTURING		
0–4 persons	2 351	13.4	44.0	8.3	206.7	7.4	80.6	9.2
5–9 persons	1 996	11.4	45.9	8.7	240.4	8.6	77.5	8.8
10–19 persons	1 681	9.6	38.7	7.3	265.7	9.5	87.8	10.0
20–49 persons	2 400	13.7	60.2	11.4	405.9	14.6	125.0	14.3
50–99 persons	3 856	22.0	145.9	27.7	815.2	29.3	231.0	26.4
Total less than 100 persons	12 285	70.2	334.8	63.5	1 933.9	69.4	601.8	68.7
100–199 persons	np	np	np	np	np	np	np	np
200–499 persons	2 023	11.6	70.1	13.3	301.0	10.8	104.2	11.9
500–999 persons	np —	np —	np —	np —	np	np —	np —	np
1 000 or more persons Total 100 or more persons	5 212	29.8		36.5	 851.8	30.6	 274.7	31.3
•								
Total	17 497	100.0	527.3	100.0	2 785.7	100.0	876.5	100.0
• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	WOOD A	ND PAPER PROD	UCT MANU	FACTURING	• • • • • • • •	• • • • • • • • • • • • • •	• • • • • •
0–4 persons	1 465	7.5	28.0	4.1	140.7	3.5	41.7	2.8
5–9 persons	2 455	12.5	64.9	9.4	315.9	7.8	99.1	6.7
10–19 persons	2 670	13.6	75.4	10.9	367.7	9.0	129.2	8.8
20–49 persons	4 588	23.5	138.1	20.0	775.0	19.1	277.3	18.8
50-99 persons	1 744	8.9	68.3	9.9	438.9	10.8	170.1	11.6
Total less than 100 persons	12 923	66.1	374.7	54.2	2 038.2	50.1	717.4	48.7
100-199 persons	2 219	11.3	91.8	13.3	623.9	15.3	242.7	16.5
200–499 persons	np	np	np	np	np	np	np	np
500–999 persons	np	np	np	np	np	np	np	np
1 000 or more persons	_	_	_	_	_	_	_	_
Total 100 or more persons	6 640	33.9	316.8	45.8	2 027.6	49.9	754.3	51.3
Total	19 563	100.0	691.5	100.0	4 065.8	100.0	1 471.8	100.0

np not available for publication but included in totals where applicable, unless otherwise indicated

- nil or rounded to zero (including null cells)
- (a) See paragraph 6 of the Explanatory Notes.
- (b) Data in this table reflect the size of individual manufacturing establishments.

 These data do not necessarily reflect the size of the business which owns and operates the establishment. For a further example (relating to unincorporated

joint ventures) of why caution should be used in interpreting these data, see paragraph 23 of the Explanatory Notes.

- (c) Includes working proprietors.
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MANUFACTURING ESTABLISHMENTS(a), Employment Size(b)—NSW continued

	Employment Wages and				Industry v			
	at end of .	June(c)	Salaries (d	d)(e)	Turnover(e		added(e)	
Employment size group	no.	%	\$m	%	\$m	%	\$m	%
• • • • • • • • • • • • • • • • • • • •	• • • • • • •	PRINTI	NG, PUBLISHING	AND REC	ORDED MEDIA	4	• • • • • • • • • • • • •	• • • • • • • •
0–4 persons 5–9 persons 10–19 persons 20–49 persons	1 931 3 040 3 477 5 963	4.7 7.4 8.5 14.6	49.7 109.4 108.4 207.6	3.0 6.6 6.5 12.5	259.1 419.7 383.5 1 013.9	3.3 5.4 4.9 12.9	64.5 154.4 121.3 482.0	2.1 4.9 3.9 15.4
50–99 persons Total less than 100 persons	6 974 21 385	17.1 52.4	276.4 751.5	16.6 45.2	1 209.6 3 285.8	15.4 42.0	477.3 1 299.5	15.2 <i>41</i> .5
100–199 persons 200–499 persons 500–999 persons 1 000 or more persons	6 235 4 128 4 123 4 969	15.3 10.1 10.1 12.2	271.9 217.3 163.5 257.5	16.4 13.1 9.8 15.5	1 107.7 945.5 1 143.1 1 349.0	14.1 12.1 14.6 17.2	441.7 405.5 363.8 624.5	14.1 12.9 11.6 19.9
Total 100 or more persons	19 455	47.6	910.4	54.8	4 545.3	58.0	1 835.5	58.5
Total	40 841	100.0	1 661.9	100.0	7 831.1	100.0	3 135.0	100.0
PETR	OLEUM,	COAL, C	HEMICAL AND A	SSOCIATED	PRODUCT M	IANUFA (CTURING	• • • • • • •
0–4 persons 5–9 persons 10–19 persons 20–49 persons 50–99 persons Total less than 100 persons 100–199 persons 200–499 persons 500–999 persons	1 405 1 545 2 709 4 993 6 411 17 062 6 162 np	4.3 4.8 8.4 15.4 19.8 52.6 19.0 np	37.9 44.2 87.8 198.9 311.9 680.7 305.1 np	2.5 3.0 5.9 13.4 21.0 45.8 20.5 np	190.6 293.4 516.5 1 349.5 2 097.4 4 447.4 2 311.0 np	1.5 2.4 4.2 10.9 16.9 35.8 18.6 np	75.1 83.6 162.9 496.6 607.4 1 425.6 642.3 np	2.2 2.5 4.9 14.8 18.1 42.5 19.1 np
1 000 or more persons	_		_	_	_	_	_	
Total 100 or more persons	15 372	47.4	805.5	54.2	7 990.4	64.2	1 929.5	57.5
Total	32 434 N	100.0 ON-MET	1 486.2 ALLIC MINERAL	100.0 PRODUCT N	12 437.7 MANUFACTUR	100.0 ING	3 355.1	100.0
0–4 persons 5–9 persons 10–19 persons 20–49 persons 50–99 persons	686 1 173 1 213 1 185 1 774	6.3 10.8 11.2 10.9 16.3	11.4 34.9 44.8 52.7 88.5	2.4 7.2 9.3 10.9 18.3	54.4 153.3 278.7 347.1 686.8	1.6 4.4 8.1 10.1 19.9	17.2 55.9 84.7 125.8 287.4	1.4 4.6 7.0 10.4 23.7
Total less than 100 persons	6 031	55.6	232.3	48.1	1 520.3	44.1	571.0	47.1
100–199 persons 200–499 persons 500–999 persons 1 000 or more persons	2 729 2 096 — —	25.1 19.3 —	136.5 114.2 —	28.3 23.6 —	1 270.4 656.4 —	36.9 19.0 —	391.5 249.2 — —	32.3 20.6 —
Total 100 or more persons	4 825	44.4	250.6	51.9	1 926.8	55.9	640.7	52.9
Total	10 856	100.0	483.0	100.0	3 447.1	100.0	1 211.7	100.0

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- nil or rounded to zero (including null cells)
- (a) See paragraph 6 of the Explanatory Notes.
- (b) Data in this table reflect the size of individual manufacturing establishments.

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joint ventures) of why caution should be used in interpreting these data, see paragraph 23 of the Explanatory Notes.

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- (e) Figures may differ slightly from those presented in other tables, because they exclude those manufacturing establishments which operated during 1999–2000 but were not operating at 30 June 2000. See paragraph 22 of the Explanatory Notes.



MANUFACTURING ESTABLISHMENTS(a), Employment Size(b)—NSW continued

	Employme	nt	Wages and				Industry va	Industry value	
	at end of J	une(c)	Salaries (d) (e	e)	Turnover(e)	added(e)		
Employment size group	no.	%	\$m	%	\$m	%	\$m	%	
• • • • • • • • • • • • • • • • • • • •	• • • • • • • •		LETAL DRODUCT A	4 A NULLE A OTL	· · · · · · · · · · · · · · · · · · ·	• • • • • • •	• • • • • • • • • • • • •	• • • • • • •	
		IVI	IETAL PRODUCT N	MANUFACIL	IRING				
0–4 persons	4 062	8.4	83.7	4.2	1 545.5	11.0	907.2	23.1	
5–9 persons	4 701	9.8	135.6	6.8	610.8	4.3	231.7	5.9	
10–19 persons	5 301	11.0	184.2	9.2	992.2	7.0	317.8	8.1	
20–49 persons	7 161	14.9	272.4	13.6	1 528.5	10.8	444.7	11.3	
50–99 persons	5 914	12.3	238.6	11.9	1 447.9	10.3	434.9	11.1	
Total less than 100 persons	27 138	56.4	914.5	45.7	6 124.9	43.4	2 336.3	59.5	
100–199 persons	5 580	11.6	246.6	12.3	1 628.6	11.6	450.3	11.5	
200-499 persons	4 689	9.7	251.8	12.6	1 813.1	12.9	356.6	9.1	
500–999 persons	np	np	np	np	np	np	np	np	
1 000 or more persons	np	np	np	np	np	np	np	np	
Total 100 or more persons	20 969	43.6	1 086.8	54.3	7 974.7	56.6	1 588.3	40.5	
Total	48 107	100.0	2 001.3	100.0	14 099.6	100.0	3 924.7	100.0	
• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •	• • • • • • •	• • • • • • • • • • • •	• • • • • • •	
		MACHIN	ERY AND EQUIPM	IENT MANU	JFACTURING	ì			
0-4 persons	3 752	6.4	86.1	3.6	415.1	3.7	144.3	3.7	
5-9 persons	4 419	7.6	117.3	4.8	530.2	4.7	200.2	5.1	
10–19 persons	3 689	6.3	111.0	4.6	493.7	4.4	202.3	5.2	
20–49 persons	8 203	14.0	270.1	11.2	1 209.4	10.8	439.4	11.2	
50–99 persons	6 538	11.2	285.1	11.8	1 350.7	12.1	459.2	11.7	
Total less than 100 persons	26 601	45.6	869.7	35.9	3 999.0	35.7	1 445.4	36.9	
100-199 persons	7 244	12.4	322.2	13.3	1 661.3	14.8	457.0	11.7	
200-499 persons	9 981	17.1	462.9	19.1	2 258.1	20.2	802.7	20.5	
500-999 persons	8 161	14.0	411.4	17.0	1 774.5	15.8	617.5	15.8	
1 000 or more persons	6 412	11.0	355.5	14.7	1 509.0	13.5	595.5	15.2	
Total 100 or more persons	31 797	54.4	1 552.0	64.1	7 203.0	64.3	2 472.7	63.1	
Total	58 399	100.0	2 421.7	100.0	11 202.0	100.0	3 918.1	100.0	
• • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • • • • • • • • •			• • • • • • •			
			OTHER MANU	FACTURING	ì				
0–4 persons	3 192	19.2	64.7	14.7	294.7	14.3	110.2	16.0	
5–9 persons	2 866	17.3	71.1	16.1	324.4	15.8	107.2	15.5	
10–19 persons	2 347	14.1	63.6	14.4	312.4	15.2	104.6	15.1	
20–49 persons	4 400	26.5	124.6	28.2	535.7	26.1	171.1	24.8	
50–99 persons	1 877	11.3	52.8	12.0	253.0	12.3	78.7	11.4	
Total less than 100 persons	14 681	88.4	376.8	85.4	1 720.2	83.7	571.9	82.8	
100-199 persons	np	np	np	np	np	np	np	np	
200-499 persons	np	np	np	np	np	np	np	np	
500-999 persons	_	_	_	_	_	_	_	_	
1 000 or more persons	_	_	_	_	_	_	_	_	
Total 100 or more persons	1 931	11.6	64.6	14.6	334.3	16.3	119.0	17.2	
Total	16 613	100.0	441.4	100.0	2 054.5	100.0	690.9	100.0	

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- nil or rounded to zero (including null cells)
- (a) See paragraph 6 of the Explanatory Notes.

joint ventures) of why caution should be used in interpreting these data, see paragraph 23 of the Explanatory Notes.

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These data do not necessarily reflect the size of the business which owns and operates the establishment. For a further example (relating to unincorporated



MANUFACTURING ESTABLISHMENTS(a), Employment Size(b)—NSW continued

	Employmer at end of ju		Wages and Salaries(d)(e)	Turnover(e)	Industry value added(e)	
Employment size group	no.	%	\$m	%	\$m	%	\$m	%
TOTAL MANUFACTURING							• • • • •	
			TOTAL MANOT	ACTORING				
0-4 persons	19 860	6.8	421.5	3.6	3 283.4	4.5	1 472.2	6.4
5–9 persons	23 943	8.2	660.2	5.7	3 072.5	4.2	1 073.8	4.7
10-19 persons	26 120	8.9	789.8	6.8	4 146.5	5.7	1 333.7	5.8
20-49 persons	43 911	15.0	1 476.1	12.7	8 627.6	11.9	3 008.2	13.1
50–99 persons	40 151	13.8	1 644.6	14.2	9 968.6	13.7	3 175.0	13.8
Total less than 100 persons	153 985	52.7	4 992.2	43.1	29 098.7	40.0	10 062.9	43.7
100-199 persons	40 094	13.7	1 791.3	15.5	11 655.9	16.0	3 474.3	15.1
200-499 persons	46 469	15.9	2 277.3	19.7	17 777.6	24.4	5 176.9	22.5
500–999 persons	27 736	9.5	1 338.1	11.6	8 670.7	11.9	2 446.5	10.6
1 000 or more persons	23 645	8.1	1 179.8	10.2	5 584.8	7.7	1 840.4	8.0
Total 100 or more persons	137 945	47.3	6 586.5	56.9	43 689.1	60.0	12 938.1	56.3
Total	291 930	100.0	11 578.7	100.0	72 787.7	100.0	23 001.0	100.0

⁽a) See paragraph 6 of the Explanatory Notes.

⁽b) Data in this table reflect the size of individual manufacturing establishments. These data do not necessarily reflect the size of the business which owns and operates the establishment. For a further example (relating to unincorporated joint ventures) of why caution should be used in interpreting these data, see paragraph 23 of the Explanatory Notes.

⁽c) Includes working proprietors.

⁽d) Excludes the drawings of working proprietors.

⁽e) Figures may differ slightly from those presented in other tables, because they exclude those manufacturing establishments which operated during 1999–2000 but were not operating at 30 June 2000. See paragraph 22 of the Explanatory Notes.



MANUFACTURING ESTABLISHMENTS(a), Exported Production(b)—Employment Size(c): NSW

		Sales and transfers out of goods	Amount exported by this business	Exports as a proportion of sales and transfers out
INDUSTE	RY SUBDIVISION	produced	or its agent	of goods produced
ANZSIC code	Description	\$m	\$m	%
• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • •
	0-49 PERSO	NS		
21	Food, beverage and tobacco mfg	2 240.0	221.4	9.9
22	Textile, clothing, footwear and leather mfg	1 005.2	58.3	5.8
23	Wood and paper product mfg	1 489.0	18.4	1.2
24	Printing, publishing and recorded media	1 875.0	224.9	12.0
25 26	Petroleum, coal, chemical and associated product mfg	2 237.9 784.7	130.8 7.1	5.8 0.9
20 27	Non-metallic mineral product mfg Metal product mfg	4 189.1	995.8	23.8
28	Machinery and equipment mfg	2 201.8	158.0	7.2
29	Other manufacturing	1 366.4	56.8	4.2
	G			
21–29	Total manufacturing	17 389.1	1 871.5	10.8
• • • • • •	50-99 PERSO	NS	• • • • • • • • • • •	• • • • • • • • • •
21	Food, beverage and tobacco mfg	1 612.4	172.4	10.7
22	Textile, clothing, footwear and leather mfg	748.3	np	np
23	Wood and paper product mfg	419.1	49.2	11.7
24	Printing, publishing and recorded media	1 039.7	42.0	4.0
25	Petroleum, coal, chemical and associated product mfg	2 014.2	228.9	11.4
26	Non-metallic mineral product mfg	597.4	11.7	2.0
27	Metal product mfg	1 276.8	91.9	7.2
28	Machinery and equipment mfg	1 134.8	243.6	21.5
29	Other manufacturing	236.4	np	np
21–29	Total manufacturing	9 079.0	1 026.6	11.3
• • • • • •	100 OR MORE PE	RSONS	• • • • • • • • • •	• • • • • • • • • •
21	Food, beverage and tobacco mfg	10 580.9	1 777.4	16.8
22	Textile, clothing, footwear and leather mfg	765.2	np	np
23	Wood and paper product mfg	1 987.5	78.0	3.9
24	Printing, publishing and recorded media	2 520.8	52.1	2.1
25	Petroleum, coal, chemical and associated product mfg	7 865.1	1 036.8	13.2
26	Non-metallic mineral product mfg	1 863.9	39.4	2.1
27	Metal product mfg	7 777.4	1 544.6	19.9
28	Machinery and equipment mfg	5 826.2	1 308.8	22.5
29	Other manufacturing	312.2	np	np
21–29	Total manufacturing	39 499.4	5 997.6	15.2
• • • • • •		• • • • • • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •
	TOTAL			
21	Food, beverage and tobacco mfg	14 433.3	2 171.1	15.0
22	Textile, clothing, footwear and leather mfg	2 518.8	380.0	15.1
23	Wood and paper product mfg	3 895.6	145.6	3.7
24	Printing, publishing and recorded media	5 435.5	319.1	5.9
25	Petroleum, coal, chemical and associated product mfg	12 117.2	1 396.4	11.5
26	Non-metallic mineral product mfg	3 245.9	58.1	1.8
27	Metal product mfg	13 243.4	2 632.4	19.9
28	Machinery and equipment mfg	9 162.9	1 710.4	18.7
29	Other manufacturing	1 914.9	82.5	4.3
21–29	Total manufacturing	65 967.5	8 895.6	13.5

np not available for publication but included in totals where applicable, unless otherwise indicated

further example (relating to unincorporated joint ventures) of why caution should be used in interpreting these data, see paragraph 23 of the Explanatory Notes. Also, this table excludes those manufacturing establishments which operated during 1999–2000 but were not operating at 30 June 2000. See paragraph 22 of the Explanatory Notes.

⁽a) See paragraph 6 of the Explanatory Notes.

⁽b) See paragraphs 24–26 of the Explanatory Notes.

⁽c) Data in this table reflect the size of individual manufacturing establishments. These data do not necessarily reflect the size of the business which owns and operates the establishment. For a

		Employment at end of	Wages and		Industry value
INDUST	RY SUBDIVISION	June(c)	salaries(d)	Turnover	added
ANZSIC					
code	Description	%	%	%	%
	• • • • • • • • • • • • • • • • • • • •				
	DO NOT EXPO	RT			
21	Food, beverage and tobacco mfg	51.4	44.0	37.7	34.9
22	Textile, clothing, footwear and leather mfg	57.3	46.6	43.9	48.8
23	Wood and paper product mfg	74.4	66.6	58.8	57.1
24	Printing, publishing and recorded media	75.1	74.1	69.4	69.6
25	Petroleum, coal, chemical and associated product mfg	32.9	25.9	20.3	27.4
26	Non-metallic mineral product mfg	65.9	63.6	65.5	65.6
27	Metal product mfg	54.2	45.1	35.3	36.7
28	Machinery and equipment mfg	46.4	44.7	39.1	41.1
29	Other manufacturing	79.1	75.7	72.9	73.3
21–29	Total manufacturing	56.1	49.8	41.6	44.6
		• • • • • • • • •		• • • • • • • •	• • • • • •
EXP	ORTS UP TO AND INCLUDING 50% OF SALES	S OF GOOD	S THAT TH	HEY PROD	UCED
21	Food, beverage and tobacco mfg	39.0	46.0	51.6	53.8
22	Textile, clothing, footwear and leather mfg	33.1	42.7	42.1	40.0
23	Wood and paper product mfg	25.0	32.4	40.0	41.3
24	Printing, publishing and recorded media	24.5	25.3	26.7	23.5
25	Petroleum, coal, chemical and associated product mfg	63.2	70.6	77.5	69.3
26	Non-metallic mineral product mfg	np	np	np	np
27	Metal product mfg	41.2	47.9	53.7	51.6
28	Machinery and equipment mfg	47.6	48.1	51.4	49.7
29	Other manufacturing	np	np	np	np
21–29	Total manufacturing	39.2	44.7	51.2	47.7
	• • • • • • • • • • • • • • • • • • • •				• • • • • •
	EXPORTS OF MORE THAN 50% OF SALES OF	GOODS T	HAT THEY	PRODUCE	D
21	Food, beverage and tobacco mfg	9.5	10.1	10.7	11.3
22	Textile, clothing, footwear and leather mfg	9.6	10.7	14.0	11.2
23	Wood and paper product mfg	0.6	0.9	1.2	1.7
24	Printing, publishing and recorded media	0.5	0.6	3.9	6.9
25	Petroleum, coal, chemical and associated product mfg	3.9	3.5	2.3	3.3
26	Non-metallic mineral product mfg	np	np	np	np
27	Metal product mfg	4.6	6.9	10.9	11.7
28	Machinery and equipment mfg	6.0	7.2	9.5	9.2
29	Other manufacturing	np	np	np	np
21–29	Total manufacturing	4.7	5.5	7.2	7.7

np not available for publication but included in totals where applicable, unless otherwise indicated

⁽a) See paragraph 6 of the Explanatory Notes.

⁽b) See paragraphs 24–26 of the Explanatory Notes.

⁽c) Includes working proprietors.

⁽d) Excludes the drawings of working proprietors.



MANUFACTURING ESTABLISHMENTS (a) (b), Summary of Operations (c) — ACT

Deference		Wages and salaries(e)(f)	Turnover(f)	Industry gross product(f)	Industry value added(f)	Wages and salaries to turnover(f)	Turnover per person employed (f)(g)	Industry value added per person employed (f)(h)
Reference year	no.	\$m	\$m	\$m	\$m	ratio	\$'000	\$'000
		FOOD,	BEVERAGE AND	TOBACCO	MANUFACTUR	ING		
1999–2000	377	15.2	97.5		23.1	0.16	258.3	61.1
1998–99	r348	r11.8	r64.0		r17.5	r0.18	r184.1	r50.3
1997–98	430	14.2	(i)119.3	(j)29.3	(j)30.5	0.12	277.3	70.8
1996–97	327	10.9	64.8	19.2	• •	0.17	198.1	• •
1995–96	470	(k)14.3	74.0	19.7		0.19	157.5	
1994–95	560	14.9	75.9			0.20	135.4	
	TE	XTILE, CLOT	HING, FOOTWE	AR AND LE	ATHER MANUF	ACTURING		
1999-2000	114	2.1	11.2		4.4	0.19	98.1	38.4
1998–99	134	2.1	10.2		4.5	0.21	76.0	r33.5
1997-98	154	2.0	(i)11.0	(j)5.2	(j)5.3	0.18	71.5	34.4
1996-97	121	1.7	8.1	3.7		0.21	67.2	
1995-96	105	(k)1.8	9.7	4.5		0.19	92.4	
1994–95	92	1.9	6.9			0.27	74.4	
		WOOD	AND PAPER F	RODUCT M	ANUFACTURIN	G		
1999-2000	259	10.5	48.6		17.0	0.22	187.8	65.7
1998-99	269	10.0	52.5		22.9	0.19	195.5	r85.4
1997-98	263	7.4	(i)40.4	(j)12.0	(j)12.6	0.18	153.8	48.1
1996-97	254	8.8	43.7	11.6		0.20	172.2	
1995-96	300	(k)9.0	42.9	13.5		0.21	143.0	
1994–95	351	11.3	51.1			0.22	145.6	
							• • • • • • • •	
		PRINT	ING, PUBLISHI	NG AND RE	CORDED MED	IA		
1999-2000	1 587	56.8	244.2		111.2	0.23	153.8	70.1
1998-99	1 218	46.0	r199.5		r98.2	0.23	r163.9	r80.7
1997-98	1 479	49.0	(i)191.7	(j)85.0	(j)88.2	0.26	129.7	59.7
1996-97	1 514	50.4	213.8	119.4		0.24	141.2	
1995–96	1 764	(k)60.5	213.7	98.9		0.28	121.2	
1994-95	1 940	64.1	217.8			0.29	112.3	
	PETROLE	UM, COAL,	CHEMICAL AND	ASSOCIAT	ED PRODUCT	MANUFACTU	RING	
1999–2000	28	0.8	3.1		1.1	0.26	109.6	40.4
1998–99	25	0.8	2.8		1.5	0.29	109.4	r58.7
1997–98	28	0.8	(i)2.8	(j)1.2	(j)1.2	0.27	100.1	43.2
1996–97	27	0.6	2.6	1.0	()/1.2	0.25	97.9	
1995–96	30	(k)0.8	3.1	1.1	• • • • • • • • • • • • • • • • • • • •	0.25	104.9	
1994–95	*55	1.2	*6.7	1.1		*0.19	121.6	
1004 00	55	1.2	0.1	• •	• •	0.13	121.0	• •

- . . not applicable
- r revised
- estimate has a relative standard error of between 25% and 50% and should be used with caution
- (a) See paragraph 6 of the Explanatory Notes.
- (b) Commencing from 1998–99, group employer information held by the Australian Taxation Office is being used to delete those businesses which have ceased trading or are no longer employing staff. See paragraphs 12–14 of the Explanatory Notes.
- (c) For factors affecting comparability of data over the time period shown, see paragraphs 15–21 of the Explanatory Notes.
- (d) Includes working proprietors.
- (e) Excludes the drawings of working proprietors.
- (f) Value data are at current prices and therefore do not discount the impact of price changes.

- (g) Turnover divided by the number of persons employed at the end of June.
- (h) Industry value added divided by the number of persons employed at the end of June.
- (i) From the 1997–98 manufacturing collection and onwards, new international standards apply to the calculation of turnover. For more details, see paragraphs 15 and 16 of the Explanatory Notes.
- j) From the 1997–98 manufacturing collection and onwards, industry value added (IVA) replaces industry gross product (IGP) as the measure of an industry's contribution to gross domestic product. IGP has also been shown for 1997–98. For more details, see paragraphs 17 and 18 of the Explanatory Notes.
- (k) For 1995–96, excludes provision expenses for employee entitlements. See paragraph 20 of the Explanatory Notes.



$MANUFACTURING\ ESTABLISHMENTS (a) (b),\ Summary\ of\ Operations (c) -- ACT {\it continued}$

	Employment at end of June(d)	Wages and salaries(e)(f)	Tumover(f)	Industry gross product(f)	Industry value added(f)	Wages and salaries to turnover(f)	Turnover per person employed (f)(g)	Industry value added per person employed (f)(h)
Reference year	no.	\$m	\$m	\$m	\$m	ratio	\$'000	\$'000
		NON-ME	TALLIC MINER	AL PRODUCT	MANUFACTU	RING		
1999–2000	*90	4.1	49.4		10.8	0.08	*547.4	*120.1
1998–99	100	3.3	28.4		r8.9	0.12	r284.5	r89.0
1997–98	136	3.3	(i)40.6	(j)9.1	(j)9.3	0.08	299.2	68.7
1996–97	135	3.8	45.0	7.0		0.08	332.9	
1995–96	140	(k)3.9	47.9	15.4		0.08	341.5	
1994–95	166	3.9	59.1	• •	• •	0.07	356.1	• •
• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • •				• • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •
			METAL PRODU	JCI MANUFA	CIURING			
1999-2000	324	7.8	47.8		16.7	0.16	147.4	51.4
1998–99	236	6.9	32.5		11.5	0.21	137.4	r48.8
1997–98	258	7.6	(i)30.4	(j)10.4	(j)10.9	0.25	118.0	42.1
1996–97	277	8.2	32.8	10.2		0.25	118.5	
1995–96	*255	(k)7.7	40.3	*11.9		0.19	157.8	
1994–95	252	6.5	28.4			0.23	112.6	
• • • • • • • • •	• • • • • • • • • •	МАСН	INERY AND EC	QUIPMENT M	ANUFACTURIN	N G	• • • • • • • • •	• • • • • • • • •
1999–2000	761	22.4	89.7		44.6	0.25	117.9	58.6
1998–99	582	17.9	94.3		r35.1	0.19	161.9	r60.3
1997–98	739	24.4	(i)106.9	(j)41.9	(j)44.7	0.23	144.7	60.5
1996–97	587	18.4	98.7	37.7	٠,	0.19	168.2	
1995–96	464	(k)12.7	59.3	30.3		0.21	127.9	
1994–95	547	18.1	64.9			0.28	118.5	
			OTHER N	MANUFACTUR	ING			
1999–2000	375	11.7	76.1		*16.4	0.15	202.9	*43.8
1998–99	357	10.4	49.5		17.8	0.21	138.6	r49.9
1997–98	334	10.2	(i)42.8	(j)10.2	(j)10.8	0.24	128.2	32.4
1996–97	326	9.6	43.2	13.9		0.22	132.7	
1995–96	415	(k)10.5	55.7	20.8		0.19	134.1	
1994–95	370	9.8	48.9		• •	0.20	131.9	
			TOTAL N	MANUFACTUR	ING			
1999-2000	3 916	131.2	667.4		245.4	0.20	170.5	62.7
1998-99	r3 269	r109.2	r533.6		r218.0	r0.20	r163.3	r66.7
1997-98	3 820	119.0	(i)586.1	(j)204.2	(j)213.5	0.20	153.4	55.9
1996–97	3 568	112.4	552.8	223.8		0.20	155.0	
1995–96	3 942	(k)121.1	546.6	216.2		0.22	138.6	
1994–95	4 334	131.7	559.5			0.24	129.1	

- * estimate has a relative standard error of between 25% and 50% and should be used with caution
- .. not applicable
- r revised
- (a) See paragraph 6 of the Explanatory Notes.
- (b) Commencing from 1998–99, group employer information held by the Australian Taxation Office is being used to delete those businesses which have ceased trading or are no longer employing staff. See paragraphs 12–14 of the Explanatory Notes.
- (c) For factors affecting comparability of data over the time period shown, see paragraphs 15–21 of the Explanatory Notes.
- (d) Includes working proprietors.
- (e) Excludes the drawings of working proprietors.
- (f) Value data are at current prices and therefore do not discount the impact of price changes.

- (g) Turnover divided by the number of persons employed at the end of June.
 - (h) Industry value added divided by the number of persons employed at the end of June.
 - (i) From the 1997–98 manufacturing collection and onwards, new international standards apply to the calculation of turnover. For more details, see paragraphs 15 and 16 of the Explanatory Notes.
 - j) From the 1997–98 manufacturing collection and onwards, industry value added (IVA) replaces industry gross product (IGP) as the measure of an industry's contribution to gross domestic product. IGP has also been shown for 1997–98. For more details, see paragraphs 17 and 18 of the Explanatory Notes.
 - (k) For 1995–96, excludes provision expenses for employee entitlements. See paragraph 20 of the Explanatory Notes.

EXPLANATORY NOTES

INTRODUCTION (1999-2000 COLLECTION)

- **1** The current series of these publications, *Manufacturing Industry*, *Australia*, 1999–2000 (Cat. no. 8221.0) and *Manufacturing Industry*, [State], 1999–2000 (Cat. nos 8221.1–8221.6), will be the last that present data for manufacturing establishments. Future manufacturing collections will no longer collect data from manufacturing establishments. Starting with the 2000–01 manufacturing collection, data will be sought from a sample of approximately 9,000 manufacturing businesses nationally. For further information, see the Appendix.
- 2 This publication presents final statistics for New South Wales and the Australian Capital Territory compiled from a survey of manufacturing establishments for 1999–2000, with some comparative statistics relating to preceding years. The emphasis of this publication is on the release of statistics for the main data items included in the survey.
- **3** Manufacturing, as specified in Division C of the Australian and New Zealand Standard Industrial Classification (ANZSIC), broadly relates to the physical or chemical transformation of materials or components into new products, whether the work is performed by power-driven machines or by hand.
- 4 The manufacturing collection is conducted on an annual basis. For the 1999–2000 collection, a sample of approximately 17,000 manufacturing establishments nationally were asked to provide data on employment, wages and salaries, turnover, purchases and whether their products were exported. Data on industry value added (IVA) are also available from this collection. In addition, a variety of sub-samples was selected to produce data on a range of other variables. The next manufacturing census will be conducted in respect of 2001–02. However, fundamental changes will be made to the annual manufacturing collection, starting with the 2000–01 survey. For further information, see the Appendix.
- 5 Estimates of IVA were compiled using data from the 17,000 sample population and a sub-sample of approximately 7,000 establishments which were asked to provide detailed structural and performance data. These 7,000 establishments were also asked to supply value of sales for commodities produced. The availability of this fine level commodity/activity data for these units has enabled better identification of inscope establishments as well as providing a basis for an objective industry code to be allocated to responding units. A sample of approximately 5,500 manufacturing management units was asked the detailed information required to derive operating profit before tax. Selected data from the annual manufacturing collection and data from other collections are included in the compendium publication *Manufacturing*, *Australia*, *2001* (Cat. no. 8225.0).

SCOPE AND COVERAGE

- 6 The business unit for which statistics are presented in this publication is the establishment. A manufacturing establishment is one predominantly engaged in manufacturing activities, but the data collected for it cover all activities of the establishment (including non-manufacturing activities). Conversely, there are some establishments predominantly engaged in non-manufacturing activities which also undertake limited manufacturing activities; these are excluded from the collection.
- **7** A small number of manufacturing establishments engage, in a significant way, in a variety of activities which are normally carried out by different industries. For example, a predominantly manufacturing establishment may also undertake significant amounts of wholesaling. Similarly, a manufacturing establishment may produce significant volumes of a variety of goods which are

SCOPE AND COVERAGE continued

normally produced in different manufacturing industries. In such cases, the original establishment is 'split' into a separate establishment for each significant activity which belongs to a separate industry. For the 1999–2000 manufacturing collection, 'significant' was defined as turnover of \$7.3m or more.

- 8 The statistics in this publication exclude some very small manufacturers. Those excluded are manufacturers not employing staff at 30 June of the reference year (such as sole proprietorships or family partnerships) which had not registered as group employers (GE) with the Australian Taxation Office (ATO). Though a substantial number, these businesses would contribute only marginally to aggregate data were they to be included. In addition, the ABS attempts to obtain data for those businesses which ceased operation during the year, but it is not possible to obtain data for all of them.
- **9** For the definition of management units and establishments, the standard business units now in use, see the Glossary. However, fundamental changes will be made to the annual manufacturing collection, starting with the 2000–01 survey. For further information, see the Appendix.

RELIABILITY OF ESTIMATES

DATA ADJUSTED

STANDARD UNITS

- **10** For information on this subject, see Technical Note 1.
- **11** The annual manufacturing industry collection, like most ABS economic collections, takes its frame from the ABS business register which is primarily based on registrations to the Australian Taxation Office's (ATO) Group Employer (GE) Scheme. Data in this issue continue to be adjusted to allow for lags in processing new businesses to the ABS business register, i.e. adjustments have been made to allow for new businesses which had commenced operations but for which details had not been processed to the ABS business register in time for inclusion in the annual manufacturing industry collection. Adjustments of this type will continue to be applied in future periods. The majority of businesses affected by these lags are small in size. The effect of these adjustments on 1999–2000 New South Wales employment is an increase of 1.0% while the effect on turnover is an increase of 0.1%. The corresponding figures for the Australian Capital Territory are 2.9% and 0.5% respectively. All industry subdivisions were affected to a similar degree.
- **12** For some time now, the ABS has been using ATO information on GE registrations to add new businesses to the ABS business register. GE information is now also used to delete from the business register those businesses which had ceased trading or were no longer employing staff.
- **13** The process of using GE information to delete businesses from the ABS business register was introduced for the 1998–99 manufacturing survey. The result was that a large number of businesses were removed from the business register and, therefore, from the population for the 1998–99 manufacturing survey. Estimates for the previous three manufacturing surveys (covering 1995–96 to 1997–98 inclusive) were slightly adjusted in such a way as to phase in the impact over this time. For periods before 1995–96, the impact is estimated to have been negligible.
- 14 The same process for removing businesses from the ABS business register has occurred for the 1999–2000 collection and will continue to occur for future manufacturing collections. The impact of the ongoing process is expected to be negligible.

COMPARABILITY WITH PREVIOUS STATISTICS

15 Commencing with estimates for 1997–98, the definition of turnover has changed in line with new international standards for measuring economic variables. The composition of turnover estimates under the current standards is as follows:

Turnover (as previously defined)

plus Income from intellectual property royalties

equals Turnover (new standards)

- **16** Conceptually, some further differences exist between turnover on the old and current bases (particularly in relation to own account production of computer software, own account mineral exploration, and own account production of literary, entertainment or artistic originals). However, as these activities are relatively unimportant for manufacturing industries, no attempt has been made to measure them.
- **17** Commencing with estimates for 1997–98, under current international standards, contribution to gross domestic product (GDP) by manufacturing industries is being measured by the variable 'Industry value added' (IVA). Estimates for IVA measure the value added by an industry to the intermediate inputs used by that industry. Previously, the corresponding contribution to GDP was measured by the variable 'Industry gross product' (IGP). It should also be noted that IVA is not the same variable as 'Value added' which was published for manufacturing establishments until 1992–93.
- **18** Composition of IVA estimates and their relationship to IGP estimates are:

Turnover (new standards)

less Intermediate input expenses (see the operating expenses

entry in the Glossary)

equals IVA

IVA

plus Intellectual property royalty expenses less Intellectual property royalty income

less Computer software expenses not capitalised by the businessless Selected indirect taxes (for manufacturing industries, the

main types are fringe benefits tax, payroll tax, land rates and

land taxes)

equals IGP

- 19 Commencing with the 1994–95 manufacturing collection, multi-establishment management units have been 'collapsed' for reporting purposes into single establishment management units, unless they had significant activity in more than one industry and/or State or Territory. The effect of this process is that most manufacturing businesses which previously reported for more than one establishment were asked to combine operations by those establishments into a single reporting unit. The effect of this on manufacturing statistics as contained in this publication has been minimal.
- **20** For the 1995–96 collection only, provision expenses for employee entitlements were excluded from wages and salaries. For all other years, these provision expenses are included in wages and salaries.
- **21** Periodic collections of the Retail and Wholesale Divisions of ANZSIC, conducted for the 1998–99 reference year, identified a number of businesses which were predominately manufacturers. A small number of these cases were

COMPARABILITY WITH
PREVIOUS STATISTICS continued

determined to be significant in some manufacturing industries and were therefore added into the manufacturing collection for 1998–99. The effect of these additional units in published aggregates for 1998–99 have been calculated as adding 0.9% to employment and 0.8% to turnover for New South Wales but had no effect on total turnover or employment for the Australian Capital Territory. These businesses were included in the 1999–2000 manufacturing collection if they remained classified as manufacturers on the ABS business register.

EMPLOYMENT SIZE DATA

- 22 Summary of operations data at the industry subdivision level classified by the employment size of individual manufacturing establishments (see the Glossary for its definition) are presented in table 3. Similarly, exports of goods produced data at the industry subdivision level classified by the broad employment size of individual manufacturing establishments are presented in table 4. The statistics in these two tables relate only to those manufacturing establishments operating at 30 June 2000. As such, the figures presented represent a slightly different population from those presented in the other tables from the manufacturing collection. These other tables include data for those manufacturing establishments which operated at any time during 1999–2000.
- 23 The treatment of unincorporated joint ventures under the ABS's standard units definitions has an effect on the data when classified by employment size. This is because joint venture participants report details of turnover, but often have few or no employees or operating expenses. The labour for such operations is usually employed and paid for by the joint venture operator. Similarly, the operating expenses are usually reported by the joint venture operator. On the other hand, the operator does not report any details of turnover (unless it also happens to be a participant). If each of these joint venture operations were to be treated as a single business unit in the statistics, it is highly probable that the METAL PRODUCT MANUFACTURING industry (for New South Wales) would reflect a similar dominance pattern to the other manufacturing industries. In other words, in the statistics in tables 3 and 4, the participants in unincorporated joint ventures are recorded in the 0-4 persons employment size category, whereas the operators of the unincorporated joint ventures are recorded in larger employment size categories. This treatment affects the relative contribution of the various employment size categories for this industry.

EXPORTS BY
MANUFACTURERS

- **24** All establishments included in the manufacturing collection were asked whether they exported and, if so, what percentage of their sales of goods produced plus transfers out of goods produced by the establishment for sale were exported by their business or an agent on their behalf. The data presented in table 4 are derived by applying the percentage of exports reported for each exporting unit and then aggregating that figure. The data in table 4 exclude those manufacturing establishments which operated during 1999–2000 but were not operating at 30 June 2000.
- 25 The statistics presented in table 4 for the value of exports by manufacturers or their agents are not intended to be directly comparable with the value of exports classified by manufacturing industry of origin as published by the ABS in international trade statistics. These latter statistics are intended to measure total exports regardless of which business or organisation does the exporting (and to identify the probable industry from which the goods originated), whereas the statistics in tables 4 and 5 only include exports directly undertaken by the manufacturer or by its agent.

EXPORTS BY
MANUFACTURERS continued

26 The data in table 4 showing exports by manufacturers or their agents can be expected to show a much lower value than the exports data from the international trade series. The main reason is that for many exports of goods manufactured in Australia, the actual exporting activity is undertaken by a business other than the manufacturer. Also, the value of goods produced on a commission or fee basis for non-manufacturing businesses and which are then exported is not included in the data in tables 4 and 5. Examples of relevant commission work are the 'slaughtering fee' charged by an abattoir for processing livestock owned by a meat exporter and the 'tolling fee' charged by an aluminium smelter to process ores owned by other (e.g. mining) businesses. Also excluded from tables 4 and 5 are any exports by manufacturers of goods which were not produced by that manufacturer. These and other goods exported (e.g. re-exports) are included in the international trade data. Finally, differences in valuation of exports arise because the value of exports in the international trade series would include the value to the manufacturer plus profit margins for the exporter and for any intermediaries between the manufacturer and the exporter.

REGIONAL DATA

27 Investigations carried out by the ABS have shown that it is possible to produce some regional or sub-State estimates in survey collection years. Limited Statistical Division data are currently available from the 1997–98 and 1998–99 manufacturing surveys, on request, for a charge. Similar sub-State data from the 1999–2000 manufacturing survey, will be available later this year, after the release of the *Manufacturing Industry*, [State], 1999–2000 publication series. Regional or sub-State estimates will not be available from the 2000–01 manufacturing survey, for further information see the Appendix. For further details about the availability of sub-State data, please contact John Ridley on Sydney 02 9268 4541.

ACKNOWLEDGEMENT

28 ABS publications draw extensively on information provided freely by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated: without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the *Census and Statistics Act 1905*.

INFORMATION PAPER

29 The *Information Paper: Availability of Statistics Related to Manufacturing* (Cat. no. 8205.0) outlines the vast amount of data that are published or available on request from the annual manufacturing industry collection, as well as data from other ABS collections.

RELATED PUBLICATIONS

- **30** A series of publications *Manufacturing Industry, [State], 1999–2000* (Cat. nos 8221.1–8221.6) will be produced for each State. These publications are being released progressively.
- **31** Users may also wish to refer to the following publications:
 - Australian National Accounts: State Accounts, 1999–2000 (Cat. no. 5220.0), released on 23 November 2000 Annual publication
 - Business Operations and Industry Performance, Australia, 1999–2000
 (Cat. no. 8140.0), released on 25 October 2001 Annual publication
- Business Operations and Industry Performance, Australia, Preliminary,
 1999–2000 (Cat. no. 8142.0), released on 10 May 2001 Annual publication
- Environment Protection Expenditure, Australia, 1995–96 and 1996–97 (Cat. no. 4603.0), released on 2 July 1999 Biennial publication
- Information Paper: Availability of Statistics Related to Manufacturing,
 1996 (Cat. no. 8205.0), released on 21 March 1996 Irregular publication

RELATED PUBLICATIONS continued

- Information Paper: Availability of Statistics Related to Manufacturing, 1997 (Cat. no. 8205.0), released on 16 January 1998 — Irregular publication
- Information Paper: Improvements to ABS Economic Statistics, 1997 (Cat. no. 1357.0), released on 22 August 1997 Irregular publication
- Inventories and Sales, Selected Industries, Australia
 (Cat. no. 5629.0) Quarterly publication
- Labour Force, Australia (Cat. no. 6203.0) Monthly publication
- Manufacturing, Australia, 2001 (Cat. no. 8225.0), to be released in December 2001 — Annual publication
- Manufacturing Industry, Australia, Preliminary, 2000–01 (Cat. no. 8201.0), to be released in March 2002 — Annual publication

BACK SERIES AND ADDITIONAL DATA

32 A considerable volume of data is available from the annual manufacturing collection. Firstly, a range of manufacturing industry statistics publications is available for previous years. In addition, more detailed information to satisfy individual user requirements may be available on request and for a charge. In general, this consists of finer industry dissections of data than that presented in the manufacturing series of publications. The information paper (Cat. no. 8205.0) referred to in paragraphs 29 and 31 provides more details.

ROUNDING

- **33** Where figures have been rounded, discrepancies may occur between totals and the sums of the component items. Due to data being adjusted for lags in processing new businesses to the ABS business register (see paragraph 11), this 'rounding rule' also applies to employment counts.
- **34** Proportions, ratios and other calculated figures shown in this publication have been calculated using unrounded estimates and may be different from, but are more accurate than, calculations based on the rounded estimates.

ABBREVIATIONS

- ABS Australian Bureau of Statistics
- ANZSIC Australian and New Zealand Standard Industrial Classification
 - ATO Australian Taxation Office
 - f.o.b. free on board
 - GDP gross domestic product
 - GE group employer
 - IGP industry gross product
 - IVA industry value added
 - mfg manufacturing
 - n.e.c. not elsewhere classified
 - PAYE pay as you earn

FUNDAMENTAL CHANGES TO FUTURE MANUFACTURING COLLECTIONS

MANUFACTURING
MANAGEMENT UNIT
COLLECTION

- **1** The current series of these publications, *Manufacturing Industry*, *Australia*, *1999–2000* (Cat. no. 8221.0) and *Manufacturing Industry*, *[State]*, *1999–2000* (Cat. nos 8221.1–8221.6), will be the last that present data for manufacturing establishments. Future manufacturing collections will no longer collect data from manufacturing establishments. Starting with the 2000–01 manufacturing collection, data will be sought from a sample of approximately 9,000 manufacturing businesses nationally.
- **2** This represents a fundamental shift in the statistical unit from which data are primarily being sought and published. It is intended to publish for Australia most, if not all, current tables on a management unit basis. However, this will represent a break in series from data previously published for manufacturing establishments.
- **3** Although the annual manufacturing collection has primarily collected data from manufacturing establishments, it has also collected data from a relatively small sample of manufacturing management units. This annual sample of approximately 5,000 manufacturing businesses nationally have provided data on employment, wages and salaries, turnover, purchases, inventories, capital expenditure and detailed information required to derive operating profit before tax. Information from this sample of manufacturing management units has generally been available at the Australian level for industry groups and selected industry classes on request.
- **4** From the 2000–01 collection, the number of businesses nationally requested to provide this information will increase to approximately 9,000. This will provide a sample large enough to support manufacturing management unit based data at the industry class level for Australia.
- The 2000–01 issue of *Manufacturing Industry*, *Australia* (Cat. no. 8221.0) will draw on summary of operations data collected previously from manufacturing management units to provide a time series, at the industry subdivision level, from 1995–96. This publication will also contain a table for 1999–2000 showing both manufacturing establishment data and manufacturing management unit data for employment, wages and salaries, turnover and IVA. This table will be designed to provide a bridge between the existing establishment based series and the new manufacturing management unit based series.

COLLECTION CYCLE

6 The ABS conducts one annual manufacturing collection in five as a manufacturing census, with the other four collections conducted as a survey. It is proposed to retain this cycle with the shift to manufacturing management unit based collections. The next manufacturing census will be conducted in respect of 2001–02.

STATE AND TERRITORY DATA

7 For the 2000–01 collection, large businesses that have operations in more than one State or Territory have been requested to provide additional details on employment, wages and salaries and sales of goods and services for each State and/or Territory in which they operate. This information will be used to synthesise on a pro-rata basis all other data reported for the whole business to each State and/or Territory in which they operate. This will enable the production of State/Territory data for employment, wages and salaries, turnover

APPENDIX 2000-01 SURVEY CHANGES continued

STATE AND TERRITORY DATA continued

and IVA at the industry subdivision level. However, it will not be possible to produce data by employment size or data relating to exported production.

8 State publications, *Manufacturing Industry, [State]*, (Cat. nos 8221.1–8221.6), will not be produced for 2000–01. However, it is intended that they next be produced for 2001–02, that is, for the next census year. The publication *Manufacturing Industry, Australia, 2000–01* (Cat. no. 8221.0) will continue to publish in all years State and Territory data for employment, wages and salaries, turnover and IVA at the industry subdivision level.

REGIONAL DATA

9 Regional or sub-State data will not be available from the 2000–01 manufacturing survey. This is a direct result of moving to a manufacturing management unit based collection for 2000–01, see paragraphs 1 and 2. However, it is proposed to make available sub-State data from information collected from the 2001–02 manufacturing census. Further investigations will be undertaken to decide if it is possible to produce some sub-State estimates in survey collection years from 2002–03.

TECHNICAL NOTE 1 DATA RELIABILITY

SAMPLE ERROR

- **1** The 1999–2000 manufacturing survey was designed primarily to deliver industry class estimates for Australia and States for the data items employment, wages and salaries, turnover and IVA. For the two Territories, the sample was designed to deliver industry subdivision data only.
- 2 All 1999–2000 (and 1994–95, 1995–96, 1997–98 and 1998-99) data contained in this publication have been obtained from samples of manufacturers. As such, these data are subject to sampling variability; that is, they may differ from the figures that would have been produced if the data had been obtained from all manufacturers in the population. The measure of the likely difference as used by the ABS is given by the standard error, which indicates the extent to which an estimate might have varied by chance because the data were obtained from only a sample of units. There are about 2 chances in 3 that a sample estimate will differ by less than one standard error from the figure that would have been obtained if the data had been obtained from all units, and about 19 chances in 20 that the difference will be less than two standard errors.
- **3** The standard error can also be expressed as a percentage of the estimate, and this is known as the relative standard error. The relative standard errors for the 1999–2000 employment, wages and salaries, turnover and IVA data for New South Wales presented in this publication are nearly all 3% or less for industry subdivisions (see Technical Note 2) and most are 4.5% or less for industry classes. The relative standard errors for the industry subdivision estimates for the Australian Capital Territory are mainly 6% or less, with the main exceptions being Non-metallic mineral product manufacturing and Other manufacturing (see Technical Note 2).
- **4** Relative standard errors at the industry subdivision level for New South Wales and the Australian Capital Territory for selected data items representing the full range of data contained in this publication are shown in Technical Note 2. Detailed relative standard errors can be made available on request.
- 5 The imprecision due to sampling variability, which is measured by the standard error, should not be confused with inaccuracies that may occur because of inadequacies in available sources from which the population frame was compiled, imperfections in reporting by providers, errors made in collection such as in recording and coding data, and errors made in processing data. Inaccuracies of this kind are referred to collectively as non-sampling error and they may occur in any enumeration, whether it be a full census or a sample.
- While it is not possible to quantify non-sampling error, every effort is made to reduce it to a minimum. Collection forms are designed to be easy to complete and assist businesses to report accurately. Efficient and effective operating procedures and systems are used to compile the statistics.

NON SAMPLE ERROR

TECHNICAL NOTE 2 RELATIVE STANDARD ERRORS

SELECTED DATA ITEMS

NEW SOUTH WALES

	RY SUBDIVISION	Employ- ment at end of June (a)	Wages and salaries (b)	Turnover	Industry value added	Amount exported by this business or its agent	
ANZSIC code	Description	%	%	%	%	%	
• • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	
21	Food, beverage and tobacco mfg	1.3	0.7	0.7	0.5	2.6	
22	Textile, clothing, footwear and leather mfg	2.5	1.8	2.1	2.1	7.8	
23	Wood and paper product mfg	3.2	2.8	2.7	2.6	4.7	
24	Printing, publishing and recorded media	3.6	2.8	2.4	2.8	3.5	
25	Petroleum, coal, chemical and associated						
	product mfg	1.6	1.0	0.7	0.9	2.8	
26	Non-metallic mineral product mfg	3.6	2.4	1.5	1.6	1.8	
27	Metal product mfg	2.6	1.8	1.4	1.6	0.3	
28	Machinery and equipment mfg	1.8	1.3	1.3	1.5	1.5	
29	Other manufacturing	3.9	3.2	3.0	3.3	17.2	
21–29	Total manufacturing	0.8	0.6	0.5	0.6	0.9	
• • • • • •							

AUSTRALIAN CAPITAL TERRITORY

INDUSTF	RY SUBDIVISION	Employ- ment at end of June (a)	Wages and salaries (b)	Turnover	Industry value added
ANZSIC code	Description	%	%	%	%
• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •
21	Food, beverage and tobacco mfg	3.2	1.7	0.8	1.0
22	Textile, clothing, footwear and leather mfg	6.6	6.8	8.3	9.5
23	Wood and paper product mfg	4.3	10.5	3.4	1.0
24	Printing, publishing and recorded media	3.8	5.1	3.6	5.8
25	Petroleum, coal, chemical and associated				
	product mfg	_	_	_	
26	Non-metallic mineral product mfg	25.6	16.7	7.9	19.0
27	Metal product mfg	5.7	4.5	3.1	4.7
28	Machinery and equipment mfg	5.5	4.2	3.8	4.2
29	Other manufacturing	23.3	19.6	19.5	41.8
21–29	Total manufacturing	3.1	3.1	2.7	4.1

nil or rounded to zero (including null cells)

⁽a) Includes working proprietors.

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⁽a) Includes working proprietors.

⁽b) Excludes the drawings of working proprietors.

GLOSSARY

ABS Australian Bureau of Statistics

Amount exported by this business or its agent

This represents the sales value of goods produced by an establishment (or for it on commission), including the value of manufactured goods transferred to other establishments of the business unit for sale, that are exported (or are intended for export) outside Australia by the business unit or by its agent.

ANZSIC

Australian and New Zealand Standard Industrial Classification

Capitalised work done by own employees for own use or for rental or lease

Work done by the employees or proprietors of an establishment for use by the business or for rental or lease to other businesses that is capitalised. The main types of work included are the manufacturing, constructing, installing or repairing of assets and the in-house development of computer software. This work is valued at the capitalised costs of the materials and the wages and salaries involved.

Conceptually, under the current international standards, this item should also include own account mineral exploration and own account production of literary, entertainment or artistic originals. However, these activities are relatively unimportant for manufacturers and have not been measured for manufacturing industries.

Closing inventories

The value of all inventories of finished goods, work-in-progress, raw materials, fuels, containers and packaging at the end of the reporting period.

Commission manufacturing

Significant amounts of manufacturing are undertaken on a commission basis by one manufacturer on behalf of another or on behalf of a non-manufacturer for a fee. Typically, commission manufacturing involves a client commissioning the production of goods utilising materials provided by the client. Ownership of these materials remains with the client. Similarly, the goods made using these materials are owned by the client.

For the purposes of the estimates in this publication, the producing establishment reports the commission fee as service income and the wages and salaries and any other expenses incurred.

If the client is a manufacturing establishment, then in addition to data for their own manufacturing operations, the client reports the sales and inventories of the commissioned goods, the cost of the materials provided to the producing establishment, the commission fee paid and the value of any other intermediate inputs related to the commission transaction. If the client is not a manufacturing establishment, no data are reported by the client as they are excluded from the manufacturing collection.

Employment at end of June

The number of working proprietors and working partners, plus all employees for whom pay as you earn (PAYE) tax is deducted (including permanent, part-time, temporary and casual employees, and managerial and executive employees) during the last pay period ending in June each year. Non-salaried directors, self-employed persons such as consultants and contractors for whom PAYE tax is not deducted and volunteers are excluded.

Enterprise group

A unit covering all the operations in Australia of one or more legal entities under common ownership and/or control. It covers all the operations in Australia of legal entities which are related in terms of the current Corporations Law. These may be legal entities such as trusts and partnerships as well as companies. Majority ownership is not required for control to be exercised.

Establishment

The establishment is the smallest accounting unit of a business, within a State or Territory, controlling its productive activities and maintaining a specified range of detailed data i.e. the data needed to compile turnover, opening and closing inventories, purchases and transfers in, motor vehicle running expenses, freight and cartage expenses, commission expenses, rent, leasing and hiring expenses,

Establishment continued

and repair and maintenance expenses. In general, an establishment covers all operations at a physical location, but may consist of groups of locations provided they are within the same State or Territory. The majority of establishments operate at one location only.

Establishments that do not export

Establishments that reported no exports (either by their business or for them by an agent) of goods that they produced.

Establishments with exports of more than 50% of sales

Establishments that reported exports (either by their business or for them by an agent) of more than 50% of sales and transfers out of goods for sale that they produced.

Establishments with exports up to and including 50% of sales

Establishments that reported exports (either by their business or for them by an agent) of up to and including 50% of sales and transfers out of goods for sale that they produced.

Exports as a proportion of sales and transfers out of goods produced (table 4)

For an individual establishment, this represents the percentage of the total sales and transfers out of goods for sale produced by the establishment (or for it on commission) which are exported (or are intended for export) outside Australia by the business or by its agent. In table 4, the ratio is calculated by dividing the total value of goods exported by the total value of sales and transfers out of goods produced by all establishments not just the aggregated value for those units which exported. (The data in table 4 exclude those manufacturing establishments which operated during 1999–2000 but were not operating at 30 June 2000.)

Funding by Federal, State or Local Governments for operational costs Funding by Federal, State or Local Governments for operational costs (e.g. wages and salaries, rent). Included are bounties, subsidies, export grants, and apprenticeship and traineeship schemes.

Industry class

Within ANZSIC, there is a structure comprising four levels ranging from industry division (broadest level) to the industry class (finest level). At the industry class level, the activities are narrowly defined and recognised by a four-digit code, e.g. Industry Class 2331 for Pulp, paper and paperboard manufacturing. Usually, an activity is primarily confined to one class. However, some activities may be primary to more than one class.

Industry division

Within ANZSIC, there is a structure comprising four levels ranging from industry division (broadest level) to the industry class (finest level). The main purpose of the industry division level is to provide a limited number of categories which give a broad overall picture of the economy. There are 17 divisions within ANZSIC, each identified by an alphabetical letter, that is, 'A' for Agriculture, forestry and fishing, 'B' for Mining, 'C' for Manufacturing, etc.

Industry gross product (IGP)

For periods prior to 1997–98, estimates of IGP represented the measure of the contribution by manufacturing industries to gross domestic product (GDP). However, commencing with estimates for 1997–98 following the introduction of new international standards for measuring economic variables, IGP has been replaced by the variable industry value added (IVA) for the purpose of measuring industry contribution to GDP.

The relationship between IVA estimates and IGP estimates is:

IVA

plus Intellectual property royalty expenses less Intellectual property royalty income

less Computer software expenses not capitalised by the business
 less Selected indirect taxes (for manufacturing industries, the main types are fringe benefits tax, payroll tax, land rates and

land taxes)

equals IGP

Industry group

This is the intermediate level within the manufacturing industry division of ANZSIC and is recognised by a three-digit code, e.g. Industry Group 233 for PAPER AND PAPER PRODUCT MANUFACTURING. It gives more detail than the industry subdivision and is created in a way that groups like industry classes together.

Industry subdivision

This is the broadest level category within the manufacturing industry division of ANZSIC and is recognised by a two-digit code, e.g. Industry Subdivision 23 for Wood and paper product manufacturing. Industry subdivisions are built up from industry groups which, in turn, are built up from industry classes. The following list gives the manufacturing industry subdivision codes and their descriptions:

- 21 Food, beverage and tobacco mfg
- 22 Textile, clothing, footwear and leather mfg
- 23 Wood and paper product mfg
- 24 Printing, publishing and recorded media
- 25 Petroleum, coal, chemical and associated product mfg
- 26 Non-metallic mineral product mfg
- 27 Metal product mfg
- 28 Machinery and equipment mfg
- 29 Other manufacturing

Industry value added (IVA)

IVA represents the value added by an industry to the intermediate inputs used by the industry. Commencing with estimates for 1997–98, IVA has replaced industry gross product (IGP) as the measure of the contribution by manufacturing industries to gross domestic product. See the entry for industry gross product for an explanation of the differences between IVA and IGP.

The derivation of IVA is as follows:

Turnover (new standards)

plus Closing inventories less Opening inventories

less Intermediate input expenses (See the entry for operating

expenses for further detail)

equals IVA

However, it should be noted that IVA is not a measure of operating profit before tax. Wages, salaries and most other labour costs are not taken into account in its calculation and nor are most insurance premiums, interest expenses or depreciation and a number of lesser expenses (see the entry for operating expenses for further detail).

Industry value added (IVA) per

person employed

IVA of manufacturing establishments which operated during the year ended 30 June divided by employment at the end of June in the same year.

Intermediate inputs

Intermediate inputs consist of materials and certain services which are used up in the production process. Definitions of relevant component items are also included in this Glossary. It is calculated as:

Intermediate input expenses (See the entry for operating expenses for further detail)

plus Opening inventories less Closing inventories

Management unit

The management unit is the highest-level unit within a business, having regard to industry homogeneity, for which accounts are maintained; in nearly all cases, it coincides with the legal entity owning the business (that is, company,

Management unit continued

partnership, trust, sole operator, etc.). In the case of large diversified businesses, however, there may be more than one management unit, each coinciding with a 'division' or 'line of business'. A division or line of business is recognised where separate and comprehensive accounts are compiled for it.

Manufacturing establishment

An establishment predominantly engaged in manufacturing activities. The data collected for such establishments cover all activities of the establishment (including non-manufacturing activities).

Manufacturing management unit

A management unit predominantly engaged in manufacturing activities. The data collected for such management units cover all activities of the management unit (including non-manufacturing activities).

Opening inventories

The value of all inventories of finished goods, work-in-progress, raw materials, fuels, containers and packaging at the beginning of the reporting period.

Operating expenses

For the purposes of calculating economic and accounting variables for manufacturing industries, operating expenses incurred by businesses are divided into several categories. However, some expenses are excluded entirely from all such calculations. These expenses are extraordinary expenses, capitalised expenses, income tax and other direct taxes, sales taxes and excise payable to Governments, capital repayments or losses on asset sales, dividends, donations or foreign exchange losses.

Remaining expenses are categorised as follows:

Intermediate input expenses

Intermediate input expenses cover the major expenses incurred by manufacturers in producing and distributing goods and services (except labour costs), namely:

- purchases and transfers in of materials, components, containers and packaging materials, electricity, fuels and water, and purchases of goods for resale
- motor vehicle running expenses, freight and cartage expenses, repair and maintenance expenses
- rent, leasing and hiring expenses (except for finance lease payments)
- contract, subcontract and commission expenses

Also included in the calculation of intermediate inputs are advertising expenses, audit and other accounting expenses, bank fees and charges (except interest), cleaning expenses, environmental protection expenses, intellectual property royalty expenses, legal fees, management fees, paper, printing and stationery expenses, postal and telecommunication expenses, staff training expenses, and travelling, accommodation and entertainment expenses.

Excluded from this category are selected labour costs and other operating expenses as defined below:

Selected labour costs

Wages and salaries including provisions for employee entitlements

Employer contributions into superannuation including salary sacrifice

Workers' compensation premiums/costs

Payroll tax and Fringe benefits tax

Other operating expenses

This group of expenses is not included in the calculation of the above economic variables but is included in the calculation of the accounting variable operating profit before tax. Included in this group of expenses are bad and doubtful debts, computer software expenses not capitalised by businesses, depreciation and amortisation, insurance premiums (except workers' compensation and compulsory third party motor vehicle insurance premiums), interest expenses,

Operating expenses continued

land rates and taxes, mineral/petroleum exploration expenses not capitalised by businesses, and natural resource royalties expenses.

Other intermediate input expenses

Intermediate input expenses less purchases and transfers in.

Own account capital work

Capitalised work done by the employees or proprietors of an establishment for use by the business or for rental or lease to other businesses. The main types of work included are the manufacturing, constructing, installing or repairing of assets and the in-house development of computer software. This work is valued at the capitalised costs of the materials and the wages and salaries involved.

Conceptually, under the current international standards, this item should also include own account mineral exploration and own account production of literary, entertainment or artistic originals. However, these activities are relatively unimportant for manufacturers and have not been measured for manufacturing industries.

Purchases

Purchases of materials, components, containers and packaging materials, electricity, fuels and water, and of goods for resale. The purchase of parts and fuel for motor vehicles run by businesses is excluded.

Purchases and transfers in

Purchases of materials, components, containers and packaging materials, electricity, fuels and water, and of goods for resale, plus transfers in of goods from other establishments of the same business for further processing, assembly, installation or for sale or resale. Transfers in are valued, for statistical purposes, at prices commensurate with the prices which would have been paid if the establishments concerned had been under separate ownership, i.e. at commercial selling price. The purchase of parts and fuel for motor vehicles run by businesses is excluded.

Reference period

Businesses are asked to report data for the financial year ended 30 June. However, if a business has a different financial year, it is asked to report for the 12–month period which ends between 1 October of the previous year and 30 September of the current year. This period is then used as a substitute for the financial year ended 30 June. For example, for the 1999–2000 collection, a business may have reported data for the year ended 31 December 1999.

Sales and transfers out of goods

Includes sales of goods whether or not produced by the establishment and sales of goods produced for the establishment on a commission basis (see the entry for commission manufacturing). Also includes transfers of goods to other establishments of the same business and installation and delivery charges not separately invoiced to customers. Progress payments relating to long term contracts are included if they are billed in the period. Sales are valued net of discounts given and exclusive of excise, sales tax and duties receivable on behalf of the Government. Exports are valued f.o.b. (i.e. export freight charges are excluded). Transfers to other establishments of the same business are valued, for statistical purposes, at commercial value (i.e. the value which would have applied had the establishments concerned been under separate ownership).

Sales and transfers out of goods produced (table 4)

Sales of goods produced plus transfers out of goods produced by this establishment. Transfers to other establishments of the same business are valued, for statistical purposes, at commercial value (i.e. the value which would have applied had the establishments concerned been under separate ownership).

Service income

Income received from service activities. Included are income from work done or sales made on a commission basis, income from repair, maintenance or servicing, installation and delivery charges separately invoiced to customers, advertising income and management fees/charges received from related or unrelated businesses. Service income is valued net of discounts given. For periods commencing with 1997–98, under new international standards, income from

Service income continued

intellectual property royalties and rent, leasing and hiring income (except from finance leases) have also been classified as service income. Rent, leasing and hiring income is income derived from the ownership of land, buildings, vehicles, machinery or equipment, excluding any income from finance leases.

For further explanation on the treatment of commission manufacturing activities, see the entry for commission manufacturing.

Statistical division

A general purpose spatial unit and is the largest and most stable spatial unit within each State and Territory in the Main Structure of the Australian Standard Geographical Classification.

Turnover

Turnover comprises sales (exclusive of excise and sales tax) of goods whether or not produced by the establishment and transfers of goods to other establishments of the same business, plus service income, funding by Federal, State or Local Governments for operational costs, and own account capital work. Definitions of the various component items appear in this Glossary.

Excluded from turnover are interest income, income from natural resource royalties, funding by Federal, State or Local Governments for specific capital items, dividends, and receipts from the sale of fixed tangible assets.

There are some conceptual differences between turnover as calculated in this publication and turnover as defined by the current international standards. These differences are explained as part of the definition of the component item own account capital work. Full compliance with these standards would make very little difference to estimates of turnover.

Note (a): The above definition of turnover is used in calculating the variable industry value added. A slightly different definition of turnover was used prior to 1997–98 to calculate the now superseded variable industry gross product. This earlier definition excluded income from intellectual property royalties and the value of computer software developed in-house for use by the business or for rental or lease to other businesses.

Note (b): Transfers to other establishments of the same business referred to in the definition of turnover are valued, for statistical purposes, at commercial value (i.e. the value which would have applied had the establishments concerned been under separate ownership).

Note (c): A significant proportion of the commodities manufactured by some industries is manufactured on commission for non-manufacturing businesses from materials owned and supplied by those businesses. As a consequence, the turnover figures do not reflect the gross value of those commodities but only the commission earned relating to them.

Turnover per person employed

Turnover of manufacturing establishments which operated during the year ended 30 June divided by employment at the end of June in the same year.

Wages and salaries

The gross wages and salaries (including capitalised wages and salaries) of all employees of the establishment. The item includes severance, termination, and redundancy payments, salaries and fees of directors and executives, retainers and commissions of persons who received a retainer, bonuses, and, recreation and other types of leave. Provision expenses for employee entitlements (e.g. provisions for annual leave and leave bonus, long service leave, sick leave, and severance, termination and redundancy payments) are also included. Payments for salary sacrifice and payments to self employed persons such as consultants, contractors and persons paid solely by commission without a retainer, are excluded. The drawings of working proprietors and partners are also excluded.

Wages and salaries to turnover

The wages and salaries paid by manufacturing establishments which operated during the year ended 30 June as a proportion of the turnover of manufacturing establishments which operated during the same year.

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