

MANUFACTURING INDUSTRY

SOUTH AUSTRALIA

EMBARGO: 11:30AM (CANBERRA TIME) TUES 2 NOV 1999

CONTENTS

	page lotes 2 lain features 3
ΤA	LES
ΜA	UFACTURING ESTABLISHMENTS
	. Summary of operations—1992–93 to 1997–98
	Effect of changes to definitions
	S Summary of operations—industry class
	Summary of operations—employment size
	Exported goods produced—broad employment size 22
	Summary of operations—proportion of exports
A D	ITIONAL INFORMATION
	xplanatory notes
	echnical note
	tandard errors
	ilossary 31

■ For further information about these and related statistics, contact
John Ridley on
Sydney 02 9268 4541, or Client Services in any
ABS office as shown on the back cover of this publication.

NOTES

ANNUAL MANUFACTURING INDUSTRY COLLECTION

The 1997–98 collection was conducted as a sample survey of approximately 19,000 manufacturing establishments, 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

This issue includes estimates for 'Industry value added' (IVA) which measures the value added by an industry to the intermediate inputs used by the industry. Under new international standards, this measure replaces 'Industry gross product' (IGP) in manufacturing industry statistics as the measure of the industry's contribution to gross domestic product. Table 1 presents estimates for 1997–98 for both IGP and IVA. It should also be noted that IVA is not the same variable as 'Value added' which was published for manufacturing establishments until 1992–93.

Estimates for turnover in this publication have also been affected (but only to a minor extent) by the new international standards. Table 2 presents percentage differences between estimates for turnover calculated on the basis of the most recent international standards and corresponding estimates calculated on the basis of the standards which applied previously, and percentage differences between IVA and IGP.

See paragraphs 11–14 of the Explanatory Notes and the Glossary for details of the composition of the relevant variables described above and for explanations of the differences between the new and previous standards as they apply to estimates in this publication.

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]*, *1997–98* (Cat. nos 8221.1–8221.6). The publication for New South Wales (Cat. no. 8221.1) also contains selected data for the Australian Capital Territory.

Commodity data will be released in *Manufacturing Production, Commodities Produced, Australia, 1997–98* (Cat. no. 8365.0), to be released in December 1999.

Management unit data and a wide range of manufacturing related Australian Bureau of Statistics (ABS) data, as well as data from other sources, will be presented in the compendium publication *Manufacturing*, *Australia*, *1999* (Cat. no. 8225.0), to be released in December 1999.

I. Crettenden Regional Director **OVERVIEW**

Turnover for the year 1997–98 by manufacturing establishments operating in South Australia was \$19,664m, which resulted in an industry value added (IVA) for the year of \$6,883m. For turnover, this represents a 5.8% increase in current price terms from the \$18,585m recorded for 1996–97. These manufacturing establishments employed 86,600 persons at the end of June 1998 and paid \$2,997m in wages and salaries in 1997–98.

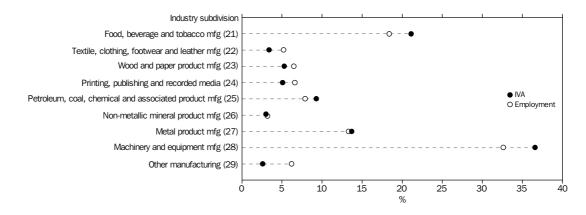
The percentage of Australian manufacturing employment in South Australia at the end of June 1998 was 9.1%, the same as that reported at the end of June 1997. The South Australian industry subdivision which made a significant contribution to national manufacturing employment at the end of June 1998 at the industry subdivision level was Machinery and equipment manufacturing (13.7%).

The percentage contribution by South Australia to total Australian manufacturing turnover and IVA in 1997–98 was 9.2% and 10.0% (respectively). For turnover, this represents an increase of 0.3 percentage points on the contribution reported in 1996–97. The South Australian industry subdivision which made a significant contribution to national manufacturing turnover and IVA in 1997–98 at the industry subdivision level was also Machinery and equipment manufacturing (17.6% and 17.7% respectively).

INDUSTRY VALUE ADDED

IVA (see the Glossary for its definition) for 1997–98 was \$6,883m.

DISTRIBUTION OF IVA AND EMPLOYMENT



The industry subdivisions with the largest contribution to total manufacturing IVA and the most notable industry classes (or groups) within those subdivisions (as a percentage of South Australia's total manufacturing IVA) were:

- Machinery and equipment manufacturing (36.6%), where the industry group Motor vehicle and part manufacturing (ANZSIC Group 281 at 23.6%) was, by far, the most substantial, with a significant contribution also by the industry class Electrical equipment manufacturing n.e.c. (ANZSIC Class 2859 at 2.4%).
- Food, beverage and tobacco manufacturing (21.1%), where the industry class Wine manufacturing (ANZSIC Class 2183 at 9.1%) was the most substantial.
- Metal product manufacturing (13.7%), where the industry class Basic iron and steel manufacturing (ANZSIC Class 2711 at 4.8%) was the most substantial.

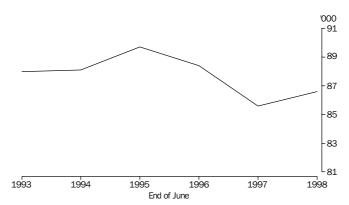
INDUSTRY VALUE ADDED continued

Industry classes (where publishable) making a notable contribution to industry value added and not included in the subdivisions listed above included Plastic injection moulded product manufacturing (ANZSIC Class 2566 at 1.9%) and Printing (ANZSIC Class 2412 at 1.6%).

EMPLOYMENT AND WAGES

The South Australian manufacturing industry employed 86,600 persons at the end of June 1998 and paid \$2,997m in wages and salaries in 1997–98. This represents an average of \$34,600 paid in annual wages and salaries per person employed at the end of June 1998, an increase of 2.8% on the \$33,700 recorded twelve months earlier.

EMPLOYMENT



South Australian manufacturing employment increased from June 1993 (88,000 persons) to June 1995 (89,700 persons), after which it decreased by 4.6% or 4,200 persons to June 1997 (85,600 persons). Employment in the South Australian manufacturing industry then increased by 1.2% or 1,000 persons between June 1997 and June 1998 (86,600 persons). Over the five years from June 1993 to June 1998, employment decreased by 1.6% or 1,400 persons.

Between June 1997 and June 1998, employment increased in five of the nine manufacturing industry subdivisions, remained stable in two and decreased in the other two. Food, beverage and tobacco manufacturing recorded the largest increase in absolute terms (700 persons), but only the third largest increase (up 4.7%) in percentage terms. The industry subdivisions with the largest percentage increases were Non-metallic mineral product manufacturing (up 6.3%) and Other manufacturing (up 4.8%). The industry subdivision with the largest percentage and absolute decrease was Textile, clothing, footwear and leather manufacturing (down 8.3% from 4,900 persons to 4,500 persons).

Average wages and salaries paid per person employed at the end of June rose in seven of the nine manufacturing industry subdivisions and fell in two between 1996–97 and 1997–98. Textile, clothing, footwear and leather manufacturing recorded the largest percentage increase (up 8.1%) in average wages and salaries paid, after recording the largest percentage fall in employment (down 8.3%). Metal product manufacturing recorded the second largest percentage increase (up 6.1%) in average wages and salaries

EMPLOYMENT AND WAGES continued

paid, with wages and salaries paid increasing by 8.0% but with employment increasing by only 1.8%.

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

- Textile, clothing, footwear and leather manufacturing (up 8.1%—\$27,500 to \$29,700), where seven (out of 15) industry classes recorded an increase, two remained unchanged and six recorded a decrease. The main influence on the subdivision result was Men's and boys' wear manufacturing (ANZSIC Class 2241) (up 45.5%—\$23,600 to \$34,300), where employment at the end of June fell 28.7% but annual wages and salaries increased by 3.7%. This ANZSIC class accounted for one-fifth of both employment and wages and salaries in the industry subdivision.
- Metal product manufacturing (up 6.1%—\$35,800 to \$38,000), where 13 (out of 19) industry classes recorded an increase. The main influences on the subdivision result were Structural steel fabricating (ANZSIC Class 2741) (up 9.3%—\$29,100 to \$31,800), Fabricated metal product manufacturing n.e.c. (ANZSIC class 2769) (up 7.7%—\$28,200 to \$30,300) and Basic iron and steel manufacturing (ANZSIC Class 2711) (up 6.6%—\$57,200 to \$61,000). Between them, these three ANZSIC classes accounted for one-half of both employment and wages and salaries in the industry subdivision.

The industry subdivision to record the largest percentage decrease between 1996–97 and 1997–98 in wages and salaries paid per person employed at the end of June was Food, beverage and tobacco manufacturing (down 2.8%—\$32,000 to \$31,100), where nine (out of 21) industry classes recorded a decrease, one remained unchanged and 11 recorded an increase. The industry classes to record the largest percentage decreases were:

- Seafood processing (ANZSIC Class 2173) (down 25.1%—\$31,500 to \$23,600);
- Biscuit manufacturing (ANZSIC Class 2163) (down 16.0%—\$34,100 to \$28,600); and
- Meat processing (ANZSIC Class 2111) (down 13.1%—\$31,400 to \$27,300).

Industry groups belonging to other industry subdivisions and which had the largest percentage increases between 1996–97 and 1997–98 in wages and salaries paid per person employed at the end of June (where publishable) were Prefabricated building manufacturing (ANZSIC Group 291) (up 30.4%—\$23,700 to \$30,900), Other chemical product manufacturing (ANZSIC Group 254) (up 14.2%—\$34,000 to \$38,800), Paper and paper product manufacturing (ANZSIC Group 233) (up 12.3%—\$45,600 to \$51,200) and Ceramic manufacturing (ANZSIC Group 262) (up 11.3%—\$28,200 to \$31,400).

TURNOVER

Note: Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. The effect on the data following the adoption of the new international standards is shown in table 2. These factors need to be taken into consideration in interpreting the following commentary.

Turnover rose, in current price terms, by \$1,079m to \$19,664m for 1997–98. This represents a 5.8% increase on the \$18,585m recorded for 1996–97.

TURNOVER continued

Seven of the nine manufacturing industry subdivisions recorded an increase in turnover between 1996–97 and 1997–98. Machinery and equipment manufacturing and Food, beverage and tobacco manufacturing remain the largest contributors to total South Australian manufacturing turnover. The largest increase in both dollar (\$426m) and percentage (10.6%) terms was recorded by Food, beverage and tobacco manufacturing. A large percentage increase was also recorded by Wood and paper product manufacturing (up 9.5%), reflecting that turnover (in current price terms) has now reached \$1 billion (\$1,006m) for the first time. Printing, publishing and recorded media (down 3.7%) and Textile, clothing, footwear and leather manufacturing (down 1.1%) were the industry subdivisions to record the decreases.

The industry groups (where publishable) with the largest percentage increases between 1996–97 and 1997–98 were:

- Structural metal product manufacturing (ANZSIC Group 274) (up 29.9% or \$114m), which included the industry class Structural steel fabricating (ANZSIC Class 2741) (up 55.8% or \$121m);
- Prefabricated building manufacturing (ANZSIC Group 291) (up 26.1% or \$19m); and
- Photographic and scientific equipment manufacturing (ANZSIC Group 283) (up 25.7% or \$41m), which included the industry class Medical and surgical equipment manufacturing (ANZSIC Class 2832) (up 187.1% or \$25m).

The industry groups with the largest dollar increases between 1996–97 and 1997–98 were:

- Beverage and malt manufacturing (ANZSIC Group 218) (up \$318m or 19.2%), which included the industry class Wine manufacturing (ANZSIC Class 2183) (up \$239m or 19.9%);
- Motor vehicle and part manufacturing (ANZSIC Group 281) (up \$272m or 5.8%); and
- Structural metal product manufacturing (ANZSIC Group 274) (up \$114m or 29.9%), which included the industry class Structural steel fabricating (ANZSIC Class 2741) (up \$121m or 55.8%).

The industry group with the largest percentage decrease between 1996–97 and 1997–98 was:

■ Clothing manufacturing (ANZSIC Group 224) (down 21.5% or \$40m).

The industry groups (where publishable) with the largest dollar decreases between 1996–97 and 1997–98 were:

- Clothing manufacturing (ANZSIC Group 224) (down \$40m or 21.5%); and
- Meat and meat product manufacturing (ANZSIC Group 211) (down \$35m or 5.9%), which included the industry class Meat processing (ANZSIC Class 2111) (down \$24m or 7.2%).

WINE AND BEER

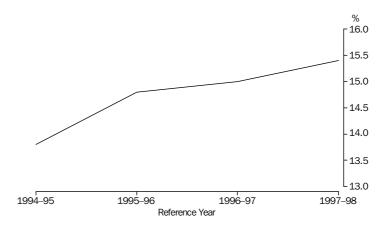
For the first time since the introduction of integrated economic statistics with the 1968–69 collection, national turnover for 1997–98 for Wine manufacturing (ANZSIC Class 2183) has exceeded that for Beer and malt manufacturing (ANZSIC Class 2182). Wine manufacturing turnover in South Australia for 1997–98 was 55.3% of the national total and accounted for 59.2% of the national increase between 1996–97 and 1997–98. (Note: At the national level, the difference between these two estimates is greater than one standard error, but less than two standard errors. Therefore, some caution needs to be used in interpreting this result.)

EXPORTS

For 1997–98, South Australian manufacturers directly exported \$2,859m of the goods that they produced. This represents a 9.3% increase on the \$2,616m recorded for 1996–97. The percentage of the total sales and transfers out of goods for sale produced that were exported has also increased (from 15.0% for 1996–97 to 15.4% for 1997–98).

Manufacturers' direct exports increased in five industry subdivisions and decreased in the other four between 1996–97 and 1997–98. Food, beverage and tobacco manufacturing's increase of \$108m (up 14.2%—from \$763m to \$871m) and Machinery and equipment manufacturing's increase of \$96m (up 12.9%—from \$744m to \$840m) were the most significant contributors to the overall increase, contributing (between them) 84% of the total increase. The industry subdivisions to record the largest percentage increases in direct exports between 1996–97 and 1997–98 were Non-metallic mineral product manufacturing (up 71.5%—from \$15m to \$26m) and Textile, clothing, footwear and leather manufacturing (up 17.8%—from \$252m to \$297m). The industry subdivision to record the largest dollar decrease was Metal product manufacturing (down \$13m or 1.9%—from \$680m to \$667m).

EXPORTS AS A PROPORTION OF GOODS PRODUCED



Commencing with the 1994–95 manufacturing collection, data on exports have been consistently collected as part of the annual manufacturing collection. Exports as a proportion of sales and transfers out of goods for sale produced has increased annually, rising from 13.8% for 1994–95 to 15.4% for 1997–98.

11101103		ı	Employment at end	Wages and	- ()	Industry	Industry value	Ratio of wages and salaries to	Turnover per person employed
	TRY SUBDIVISION		of June(c)	salaries(d)(e)	Turnover(e)	product(e)	added(e)	turnover(e)	(e)(f)
ANZSIC code	Description		'000	\$m	\$m	\$m	\$m	ratio	\$'000
21	Food, beverage and tobacco mfg	1997-98	16.0	496.7	(g)4 436.4	(h)1 417.7	(h)1 452.4	0.11	278.0
		1996–97r	15.2	488.2	4 010.7	1 255.4		0.12	263.1
		1995–96	17.2	(i)474.0	3 866.0	1 200.9		0.12	224.2
		1994–95	17.2	454.6	3 579.6			0.13	208.6
		1993-94	16.3	435.5	3 337.0			0.13	204.5
		1992–93	15.8	411.5	2 980.6	703.6		0.14	188.4
22	Textile, clothing, footwear and leather mfg	1997–98	4.5	133.3	(g)772.9	(h)223.3	(h)230.8	0.17	172.5
	, , , , , , , , , , , , , , , , , , ,	1996-97r	4.9	134.4	781.1	230.9		0.17	160.0
		1995–96	4.9	(i)122.2	824.2	229.7		0.15	167.0
		1994–95	5.3	141.9	819.9			0.17	155.0
		1993-94	5.4	136.5	788.9			0.17	147.1
		1992-93	5.8	145.0	819.5	253.9		0.18	140.6
23	Wood and paper product mfg	1997–98	5.6	198.5	(g)1 006.1	(h)353.7	(h)365.1	0.20	179.0
		1996–97r	5.7	191.3	918.8	313.7		0.21	162.1
		1995–96	5.6	(i)180.5	969.9	346.4		0.19	171.9
		1994–95	5.9	198.5	985.6			0.20	167.4
		1993–94	6.2	184.2	945.5			0.19	153.7
		1992–93	5.6	168.8	854.8	269.9		0.20	153.1
24	Printing, publishing and recorded media	1997–98	5.7	188.4	(g)774.4	(h)346.4	(h)349.0	0.24	135.4
	i intang, pasioring and recorded media	1996–97	5.7	178.8	r804.1	r348.3	(11)0-10.0	0.22	142.2
		1995–96	5.3	(i)153.7	721.2	343.0		0.21	135.3
		1994–95	5.2	154.4	668.4			0.23	129.6
		1993–94	5.8	158.1	656.6			0.24	114.0
		1992–93	5.7	160.7	663.2	291.0		0.24	116.4
25	Petroleum, coal, chemical and associated	1007.00							
	product mfg	1997–98	6.9	251.2	(g)1 552.3	(h)616.7	(h)637.9	0.16	226.0
		1996–97r	6.7	248.5	1 458.0	568.5		0.17	216.8
		1995–96	6.2	(i)215.8	1 285.1	528.4		0.17	206.1
		1994–95	6.5	218.8	1 367.8			0.16	208.9
		1993–94	6.5	208.2	1 431.1			0.15	220.8
		1992–93	7.0	218.5	1 435.8	419.9		0.15	205.3
26	Non-metallic mineral product mfg	1997–98	2.8	102.0	(g)612.8	(h)202.3	(h)209.6	0.17	221.5
		1996-97	2.6	93.7	r605.5	r189.7		0.15	232.6
		1995–96	2.6	(i)91.6	539.1	196.5		0.17	208.3
		1994–95	2.8	91.8	543.3			0.17	196.3
		1993–94	2.9	92.7	558.1			0.17	194.5
		1992–93	2.9	97.7	541.0	161.4		0.18	189.7

- (a) See paragraph 5 of the Explanatory Notes.
- (b) For factors affecting comparability of data over the time periods shown, see paragraphs 11-18 of the Explanatory Notes.
- (c) Includes working proprietors.
- (d) Excludes the drawings of working proprietors.
- (e) Value data are at current prices and, therefore, do not discount the impact of price changes.
- (f) Turnover divided by the number of persons employed at the end of June. Includes working proprietors.
- (g) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. The effect on the data following the adoption of the new international standards is shown in table 2. For more details, see paragraphs 11 and 12 of the Explanatory Notes.
- (h) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. Industry gross product is also shown for 1997–98. The effect on the data following the adoption of the new international standards is shown in table 2. For more details, see paragraphs 13 and 14 of the Explanatory Notes.
- (i) For 1995–96, excludes provision expenses for employee entitlements. See paragraph 18 of the Explanatory Notes.

INDUST	TRY SUBDIVISION		Employment at end of June(c)	Wages and salaries(d)(e)	Turnover(e)	Industry gross product(e)	Industry value added(e)	Ratio of wages and salaries to turnover(e)	Turnover per person employed (e)(f)
ANZSIC			1000						*10.00
code	Description		'000	\$m	\$m	\$m	\$m	ratio	\$'000
• • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
27	Metal product mfg	1997–98	11.5	438.3	(g)2 627.3	(h)915.4	(h)944.7	0.17	227.8
		1996–97r	11.3	405.6	2 519.9	807.8		0.16	222.4
		1995–96	11.8	(i)404.2	2 549.3	740.9		0.16	215.5
		1994–95	11.3	356.5	2 565.8			0.14	227.5
		1993-94	11.8	352.9	2 342.2			0.15	198.8
		1992–93	12.6	389.9	2 408.1	628.1		0.16	191.7
28	Machinery and equipment mfg	1997–98	28.3	1 057.0	(g)7 302.6	(h)2 511.2	(h)2 517.3	0.14	258.4
20	Madrimory and equipment ring	1996–97r	28.3	1 020.0	6 922.3	2 249.1	(11)2 311.3	0.15	244.5
		1995–96	29.6	(i)1 006.3	6 949.2	2 153.3		0.14	234.6
		1994–95	30.6	1 034.1	6 899.8			0.15	225.2
		1993–94	28.5	906.1	6 373.8			0.14	223.8
		1992-93	28.0	830.6	5 145.4	1 308.7		0.16	183.8
29	Other manufacturing	1997–98	5.4	131.5	(g)579.2	(h)170.3	(h)176.4	0.23	107.4
25	Other manufacturing	1996–97	5.1	121.3	r564.6	r163.6	(11)1110.4	0.23	107.4
		1995–96	4.9	(i)115.0	500.6	185.7		0.23	101.7
		1994–95	5.0	107.5	502.7			0.21	100.2
		1993–94	4.9	101.3	455.4			0.22	93.1
		1992–93	4.7	96.8	424.5	150.1		0.23	90.2
21_20	Total manufacturing	1997–98	86.6	2 997.0	(g)19 664.1	(h)6 756.9	(h)6 883.2	0.15	227.1
21-23	Total manufacturing	1996-97r	85.6	2 881.9	18 584.9	6 127.0	. ,	0.16	217.2
		1995–96	88.4	(i)2 763.4	18 204.6	5 924.8		0.15	206.1
		1994–95	89.7	2 758.2	17 932.8			0.15	199.8
		1993-94	88.1	2 575.3	16 888.8			0.15	191.7
		1992-93	88.0	2 519.5	15 272.9	4 186.7		0.16	173.5
			22.0				• • •	5.20	

- (a) See paragraph 5 of the Explanatory Notes.
- (b) For factors affecting comparability of data over the time periods shown, see paragraphs 11–18 of the Explanatory Notes.
- (c) Includes working proprietors.
- (d) Excludes the drawings of working proprietors.
- (e) Value data are at current prices and, therefore, do not discount the impact of price changes.
- (f) Turnover divided by the number of persons employed at the end of June. Includes working proprietors.
- (g) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. The effect on the data following the adoption of the new international standards is shown in table 2. For more details, see paragraphs 11 and 12 of the Explanatory Notes.
- (h) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. Industry gross product is also shown for 1997–98. The effect on the data following the adoption of the new international standards is shown in table 2. For more details, see paragraphs 13 and 14 of the Explanatory Notes.
- (i) For 1995–96, excludes provision expenses for employee entitlements. See paragraph 18 of the Explanatory Notes.

		Effect on	Difference between IVA estimates and
INDUST	RY SUBDIVISION		IGP estimates
ANZSIC			
code	Description	%	%
• • • •		• • • • • •	• • • • • • • •
21	Food, beverage and tobacco mfg	_	2.4
22	Textile, clothing, footwear and leather mfg	_	3.4
23	Wood and paper product mfg	_	3.2
24	Printing, publishing and recorded media	_	0.8
25	Petroleum, coal, chemical and associated product mfg	0.3	3.4
26	Non-metallic mineral product mfg	_	3.6
27	Metal product mfg	_	3.2
28	Machinery and equipment mfg	0.1	0.2
29	Other manufacturing	_	3.6
21–29	Total manufacturing	0.1	1.9

- (a) This table presents percentage differences between estimates for turnover calculated on the basis of the most recent international standards and corresponding estimates calculated on the basis of the standards which applied previously, and percentage differences between IVA and IGP (the previous measure of an industry's contribution to GDP). Paragraphs 11–14 of the Explanatory Notes provide details of the changes to the international standards.
- (b) Industry group and industry class estimates have been affected similarly, with one publishable exception. IVA for Book and other publishing (ANZSIC Class 2423) is 53.4% lower than IGP for 1997–98.

	RY CLASS	Employment at end of June(b)	Wages and salaries(c)	Turnover(d)	Industry value added(e)	Turnover per person employed(f)	Industry value added per person employed(g)
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •		• • • • • • •			• • • • • • •
	FOOD, BEVERAGE AND TOBACCO MFG						
	Meat and meat product mfg						
2111	Meat processing	2 429	66.4	311.6	91.3	128.3	37.6
2112 2113	Poultry processing Bacon, ham and smallgood mfg	n.p.	n.p. n.p.	n.p. n.p.	n.p. n.p.	n.p. n.p.	n.p. n.p.
2113	Total	n.p. 3 953	107.9	552.6	144.6	139.8	36.6
	Dairy product mfg						
2121	Milk and cream processing	565	n.p.	n.p.	n.p.	n.p.	n.p.
2122 2129	Ice cream mfg Dairy product mfg n.e.c.	47 305	n.p. 13.4	n.p. 147.9	n.p. 25.0	n.p. 484.6	n.p. 82.0
2123	Total	917	38.2	419.4	85.2	457.4	92.9
		017	00.2	710.7	00.2	701.1	02.0
213	Fruit and vegetable processing	658	23.5	216.2	35.5	328.4	53.9
214	Oil and fat mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	Flour mill and cereal food mfg						
2151	Flour mill product mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2152	Cereal food and baking mix mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
215	Total	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	Bakery product mfg						
2161	Bread mfg	1 058	36.9	108.1	38.8	102.2	36.7
2162	Cake and pastry mfg	1 090	27.2	87.9	35.2	80.6	32.3
2163	Biscuit mfg	714	20.4	153.1	59.9	214.3	83.8
216	Total	2 862	84.5	349.1	133.9	122.0	46.8
	Other food mfg						
2171	Sugar mfg	_	_	_	_	_	_
2172	Confectionery mfg	362	n.p.	n.p.	n.p.	n.p.	n.p.
2173 2174	Seafood processing Prepared animal and bird feed mfg	725	17.1	240.6	37.2	331.8	51.3
2174	Food mfg n.e.c.	261 1 115	n.p. 35.5	n.p. 274.9	n.p. 113.0	n.p. 246.5	n.p. 101.4
217	Total	2 463	68.4	703.4	180.2	285.6	73.2
0101	Beverage and malt mfg						
2181 2182	Soft drink, cordial and syrup mfg Beer and malt mfg	n.p.	n.p. 16.0	n.p. 209.9	n.p.	n.p.	n.p. 214.0
2182	Wine mfg	251 3 420	16.0 107.0	1 435.4	53.7 626.9	835.9 419.7	183.3
2184	Spirit mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
218	Total	4 507	154.8	1 976.1	796.6	438.4	176.7
219	Tobacco product mfg	_	_	_	_	_	_
21	Total food, beverage and tobacco mfg	15 958	496.7	4 436.4	1 452.4	278.0	91.0

⁽a) See paragraph 5 of the Explanatory Notes.

⁽b) Includes working proprietors.

⁽c) Excludes the drawings of working proprietors.

⁽d) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.

⁽e) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory Notes.

⁽f) Turnover divided by the number of persons employed at the end of June. Includes working proprietors.

⁽g) Industry value added divided by the number of persons employed at the end of June. Includes working proprietors.

		Employment at end	Wages and		Industry value	Turnover per person	Industry value added per person
	RY CLASS	of June(b)	salaries(c)	Turnover(d)	added(e)	employed(f)	employed(g)
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
• • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • • •
	TEXTILE, CLOTHING, FOOTWEAR AND LEATHER MFG Textile fibre, yarn and woven fabric mfg						
2211	Wool scouring	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2212	Synthetic fibre textile mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2213	Cotton textile mfg	n.p.	4.9	33.4	10.4	n.p.	n.p.
2214 2215	Wool textile mfg	_	_	_	_	_	_
2213	Textile finishing Total	n.p. 930	n.p. <i>n.p.</i>	n.p. <i>n.p.</i>	n.p. <i>n.p.</i>	n.p. <i>n.p.</i>	n.p. <i>n.p.</i>
221	rotar	550	п.р.	n.p.	n.p.	т.р.	п.р.
	Textile product mfg						
2221	Made-up textile product mfg	454	9.7	51.2	15.8	112.8	34.7
2222 2223	Textile floor covering mfg Rope, cordage and twine mfg	n.p. —	n.p. —	n.p.	n.p. —	n.p.	n.p.
2229	Textile product mfg n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
222	Total	722	16.2	82.5	26.3	114.2	36.4
0004	Knitting mills						
2231 2232	Hosiery mfg Cardigan and pullover mfg	_ n n					
2232	Knitting mill product mfg n.e.c.	n.p. —	n.p. —	n.p. —	n.p. —	n.p. —	n.p.
223	Total	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
00.14	Clothing mfg						
2241 2242	Men's and boys' wear mfg Women's and girls' wear mfg	890	30.5	109.0	25.5	122.5	28.6
2242	Sleepwear, underwear and infant clothing mfg	n.p. n.p.	n.p. n.p.	n.p. n.p.	n.p. n.p.	n.p. n.p.	n.p. n.p.
2249	Clothing mfg n.e.c.	522	5.2	23.7	6.6	45.4	12.7
224	Total	1 649	39.2	146.2	37.3	88.7	22.6
225	Footwear mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	Leather and leather product mfg						
2261	Leather tanning and fur dressing	248	n.p.	n.p.	n.p.	n.p.	n.p.
2262	Leather and leather substitute product mfg	56	n.p.	n.p.	n.p.	n.p.	n.p.
226	Total	303	12.4	66.6	17.2	219.4	56.8
22	Total textile, clothing, footwear and leather mfg	4 480	133.3	772.9	230.8	172.5	51.5
	WOOD AND DARED DRODUCT MEC						
	WOOD AND PAPER PRODUCT MFG Log sawmilling and timber dressing						
2311	Log sawmilling	368	11.9	64.9	22.9	176.2	62.1
2312	Wood chipping	_	_	_	_	_	_
2313	Timber resawing and dressing	910	34.1	172.3	64.1	189.4	70.5
231	Total	1 278	46.0	237.2	87.0	185.6	68.1
	Other wood product mfg						
2321	Plywood and veneer mfg	255	n.p.	n.p.	n.p.	n.p.	n.p.
2322	Fabricated wood mfg	302	n.p.	n.p.	n.p.	n.p.	n.p.
2323	Wooden structural component mfg	1 386	33.8	133.5	49.5	96.3	35.7
2329 232	Wood product mfg n.e.c. Total	*742 2 686	*9.9 67.7	*37.2 291.2	*14.4 104.2	*50.2 108.4	19.4 38.8
232	iotai	∠ 080	07.7	291.2	104.2	108.4	30.0

- (a) See paragraph 5 of the Explanatory Notes.
- (b) Includes working proprietors.
- (c) Excludes the drawings of working proprietors.
- (d) Commencing with the 1997–98 manufacturing collection, new international $\,$ standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.
- (e) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory
- (f) Turnover divided by the number of persons employed at the end of June. Includes working proprietors.
- (g) Industry value added divided by the number of persons employed at the end of June. Includes working proprietors.

		Employment at end	Wages and		Industry value	Turnover per person	Industry value added per person
INDUSTF	RY CLASS	of June(b)	salaries(c)	Turnover(d)	added(e)	employed(f)	employed(g)
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
code	Description	110.	φιιι	φιιι	φιιι	φ000	\$000
• • • • •	Paper and paper product mfg			• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • •
2331	Pulp, paper and paperboard mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2332	Solid paperboard container mfg	148	n.p.	n.p.	n.p.	n.p.	n.p.
2333	Corrugated paperboard container mfg	537	25.1	139.9	55.5	260.4	103.3
2334	Paper bag and sack mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2339	Paper product mfg n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
233	Total	1 657	84.8	477.8	174.0	288.3	105.0
23	Total wood and paper product mfg	5 621	198.5	1 006.1	365.1	179.0	65.0
	PRINTING, PUBLISHING AND RECORDED MEDIA Printing and services to printing						
2411	Paper stationery mfg	782	26.6	122.5	44.3	156.7	56.6
2412	Printing	2 263	66.9	289.5	109.3	127.9	48.3
2413	Services to printing	516	13.8	40.0	24.4	77.5	47.2
241	Total	3 562	107.4	452.1	178.0	126.9	50.0
0.404	Publishing	. =0.4					
2421 2422	Newspaper printing or publishing	1 734	n.p.	n.p.	n.p.	n.p.	n.p.
2422	Other periodical publishing Book and other publishing	136 221	3.9 4.6	15.4 29.2	4.7 5.9	113.5 132.2	34.9 26.5
242	Total	2 090	n.p.	n.p.	n.p.	n.p.	n.p.
243	Recorded media manufacturing and publishing	67	n.p.	n.p.	n.p.	n.p.	n.p.
24	Total printing, publishing and recorded media	5 719	188.4	774.4	349.0	135.4	61.0
	PETROLEUM, COAL, CHEMICAL AND ASSOCIATED PRODUCT MFG						
251	Petroleum refining	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
252	Petroleum and coal product mfg n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	Basic chemical mfg						
2531	Fertiliser mfg	264	8.3	130.9	17.9	496.3	67.8
2532	Industrial gas mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2533	Synthetic resin mfg	67	n.p.	n.p.	n.p.	n.p.	n.p.
2534 2535	Organic industrial chemical mfg n.e.c. Inorganic industrial chemical mfg n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
253	Total	374 823	18.4 33.9	162.9 33 <i>4</i> .2	64.7 103.3	436.0 406.3	173.3 125.6
200	rotar	020	33.3	004.2	100.0	700.0	120.0
	Other chemical product mfg						
2541	Explosive mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2542	Paint mfg	428	16.3	98.2	42.3	229.6	99.0
2543	Medicinal and pharmaceutical product mfg	465	20.6	144.6	63.8	310.6	137.2
2544	Pesticide mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2545 2546	Soap and other detergent mfg Cosmetic and toiletry preparation mfg	77 100	n.p.	n.p.	n.p.	n.p.	n.p.
2546 2547	Ink mfg	190	n.p. —	n.p.	n.p.	n.p.	n.p. —
2549	Chemical product mfg n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
254 254	Total	1 256	48.7	317.4	135.6	252.7	108.0
			. = . •				

- (a) See paragraph 5 of the Explanatory Notes.
- (b) Includes working proprietors.
- (c) Excludes the drawings of working proprietors.
- (d) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.
- (e) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory Notes.
- (f) Turnover divided by the number of persons employed at the end of June. Includes working proprietors.
- (g) Industry value added divided by the number of persons employed at the end of June. Includes working proprietors.

		Employment at end	Wages and		Industry value	Turnover per person	Industry value added per person
	RY CLASS	of June(b)	salaries(c)	Turnover(d)	added(e)	employed(f)	employed(g)
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
• • • • •						• • • • • • •	• • • • • • •
	Rubber product mfg						
2551	Rubber tyre mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2559 255	Rubber product mfg n.e.c. Total	152	3.6	15.6	6.6	102.8	43.5
255	Total	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	Plastic product mfg						
2561	Plastic blow moulded product mfg	176	n.p.	n.p.	n.p.	n.p.	n.p.
2562	Plastic extruded product mfg	378	10.8	83.2	37.8	220.1	99.9
2563 2564	Plastic bag and film mfg Plastic product, rigid fibre reinforced, mfg	594	17.7 9.2	118.5	38.0	199.5	64.1
2565	Plastic from product mfg	314 175	9.2 n.p.	41.0 n.p.	15.1 n.p.	130.6 n.p.	48.2 n.p.
2566	Plastic injection moulded product mfg	1 807	51.5	286.5	132.6	158.5	73.4
256	Total	3 444	98.0	588.1	244.1	170.8	70.9
25	Total petroleum, coal, chemical and associated						
	product mfg	6 870	251.2	1 552.3	637.9	226.0	92.8
	NON-METALLIC MINERAL PRODUCT MFG						
261	Glass and glass product mfg	681	23.6	123.7	44.7	181.7	65.6
	Ceramic mfg						
2621	Clay brick mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2622	Ceramic product mfg	62	n.p.	n.p.	n.p.	n.p.	n.p.
2623 2629	Ceramic tile and pipe mfg Ceramic product mfg n.e.c.	n.p. 59	n.p. 0.7	n.p.	n.p. 1.4	n.p. 50.8	n.p. 23.5
262	Total	278	8.7	3.0 51. <i>4</i>	21.2	184.8	76.1
0624	Cement, lime, plaster and concrete product mfg						
2631 2632	Cement and lime mfg Plaster product mfg	n.p. 232	n.p. *7.7	n.p. *37.9	n.p. *14.3	n.p. **163.4	n.p. 61.6
2633	Concrete slurry mfg	281	10.7	117.3	14.3	418.0	50.4
2634	Concrete pipe and box culvert mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2635	Concrete product mfg n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
263	Total	1 382	55.8	385.7	118.5	279.1	85.8
264	Non-metallic mineral product mfg n.e.c.	425	13.8	52.0	25.3	122.3	59.5
26	Total non-metallic mineral product mfg	2 766	102.0	612.8	209.6	221.5	75.8
	METAL PRODUCT MFG Iron and steel mfg						
2711	Basic iron and steel mfg	2 215	135.1	874.5	330.5	394.9	149.2
2712	Iron and steel casting and forging	513	n.p.	n.p.	n.p.	n.p.	n.p.
2713	Steel pipe and tube mfg	222	n.p.	n.p.	n.p.	n.p.	n.p.
271	Total	2 950	160.8	1 006.6	387.6	341.3	131.4
	Basic non-ferrous metal mfg						
2721	Alumina production	_	_	_	_	_	_
2722 2723	Aluminium smelting Copper, silver, lead and zinc	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	smelting, refining	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2729	Basic non-ferrous metal mfg n.e.c.	13	0.4	1.9	0.5	142.3	40.6
272	Total	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
				• • • • • • •			

⁽a) See paragraph 5 of the Explanatory Notes.

⁽b) Includes working proprietors.

⁽c) Excludes the drawings of working proprietors.

⁽d) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.

⁽e) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the

⁽f) Turnover divided by the number of persons employed at the end of June. Includes working proprietors.

⁽g) Industry value added divided by the number of persons employed at the end of June. Includes working proprietors.

INDUSTF	RY CLASS	Employment at end of June(b)	Wages and salaries(c)	Turnover(d)	Industry value added(e)	Turnover per person employed(f)	Industry value added per person employed(g)
					,	. , .,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ANZSIC code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
	Non-ferrous basic metal product mfg						
2731	Aluminium rolling, drawing, extruding	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2732 2733	Non-ferrous metal rolling, drawing, extruding n.e.c. Non-ferrous metal casting	— 147	4.3	 17.8	— 7.5	— 121.1	 50.9
273	Total	n.p.	4.3 n.p.	n.p.	n.p.	n.p.	n.p.
		,	•	,	,	•	,
2741	Structural metal product mfg	1 071	E0 E	227.0	104.0	100.0	66.7
2741	Structural steel fabricating Architectural aluminium product mfg	1 871 858	59.5 22.4	337.2 118.0	124.8 38.4	180.2 137.5	66.7 44.8
2749	Structural metal product mfg n.e.c.	367	*10.0	38.1	14.3	103.6	38.9
274	Total	3 096	91.9	493.2	177.5	159.3	57.3
	Sheet metal product mfg						
2751	Metal container mfg	70	1.8	11.1	3.0	157.8	42.6
2759	Sheet metal product mfg n.e.c.	855	24.2	98.0	45.3	114.6	52.9
275	Total	925	26.0	109.1	48.3	117.9	52.2
	Fabricated metal product mfg						
2761	Hand tool and general hardware mfg	144	3.9	15.8	9.4	109.6	65.0
2762	Spring and wire product mfg	424	9.5	29.8	14.6	70.2	34.5
2763	Nut, bolt, screw and rivet mfg	145	5.3	23.9	12.3	164.8	84.5
2764	Metal coating and finishing	714	21.1	60.9	31.2	85.4	43.8
2765 2769	Non-ferrous pipe fitting mfg Fabricated metal product mfg n.e.c.	89 1 610	1.8 48.8	8.3 269.6	3.5 92.3	93.0 167.5	39.3 57.3
276	Total	3 127	90.4	408.4	163.3	130.6	52.2
27	Total metal product mfg	11 535	438.3	2 627.3	944.7	227.8	81.9
	MACHINERY AND EQUIPMENT MFG Motor vehicle and part mfg						
2811	Motor vehicle mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2812	Motor vehicle body mfg	763	23.9	67.8	28.3	88.9	37.0
2813 2819	Automotive electrical and instrument mfg	186	5.9	97.3	19.4	524.2	104.4
2819	Automotive component mfg n.e.c. Total	n.p. 13 247	n.p. 546.9	n.p. 4 926.7	n.p. 1 622.8	n.p. 371.9	n.p. 122.5
2021	Other transport equipment mfg	040	E 4 7	400.0	101.2	0.45.0	404.5
2821 2822	Shipbuilding Boatbuilding	813 269	54.7 5.2	199.2 18.1	101.3 7.2	245.0 67.4	124.5 26.7
2823	Railway equipment mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2824	Aircraft mfg	247	10.2	39.1	20.9	158.5	84.7
2829	Transport equipment mfg n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
282	Total	1 378	72.1	266.1	131.1	193.0	95.1
	Photographic and scientific equipment mfg						
2831	Photographic and optical good mfg	907	29.1	92.0	45.7	101.4	50.4
2832	Medical and surgical equipment mfg	409	10.9	38.3	8.5	93.7	20.8
2839	Professional and scientific equipment mfg n.e.c.	596	18.3	68.0	25.3	114.3	42.4
283	Total	1 912	58.3	198.4	79.5	103.8	41.6

⁽a) See paragraph 5 of the Explanatory Notes.

⁽b) Includes working proprietors.

⁽c) Excludes the drawings of working proprietors.

⁽d) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.

⁽e) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory Notes.

⁽f) Turnover divided by the number of persons employed at the end of June. Includes working proprietors.

⁽g) Industry value added divided by the number of persons employed at the end of June. Includes working proprietors.

INDUSTF ANZSIC	RY CLASS	Employment at end of June(b)	Wages and salaries(c)	Tumover(d)	Industry value added(e)	Turnover per person employed(f)	Industry value added per person employed(g)
code	Description	no.	\$m	\$m	\$m	\$'000	\$'000
• • • • •	Electronic equipment mfg						
2841	Computer and business machine mfg	179	5.0	54.6	9.9	305.2	55.2
2842	Telecommunication, broadcasting and transceiving equipment mfg	356	n.p.	n.p.	n.p.	n.p.	n.p.
2849	Electronic equipment mfg n.e.c.	902	n.p.	n.p.	n.p.	n.p.	n.p.
284	Total	1 437	51.2	231.0	65.5	160.8	45.6
	Electrical equipment and appliance mfg						
2851	Household appliance mfg	1 893	60.4	373.3	113.4	197.2	59.9
2852	Electric cable and wire mfg		- 00.4	-			33.5
2853	Battery mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2854	Electric light and sign mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2859	Electrical equipment mfg n.e.c.	2 739	83.8	490.0	164.4	178.9	60.0
285	Total	5 243	164.5	995.5	333.9	189.9	63.7
	Industrial machinery and equipment mfg						
2861	Agricultural machinery mfg	973	20.2	97.8	40.2	100.4	41.3
2862	Mining and construction machinery mfg	1 004	n.p.	n.p.	n.p.	n.p.	n.p.
2863	Food processing machinery mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2864	Machine tool and part mfg	846	30.3	80.9	44.9	95.6	53.0
2865	Lifting and material handling equipment mfg	452	17.4	67.2	28.5	148.4	62.9
2866	Pump and compressor mfg	179	6.0	39.0	9.5	217.5	52.7
2867	Commercial space heating and cooling equipment mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2869	Industrial machinery and equipment mfg n.e.c.	1 388	42.8	169.6	92.1	122.2	66.3
286	Total	5 040	164.1	685.0	284.4	135.9	56.4
28	Total machinery and equipment mfg	28 257	1 057.0	7 302.6	2 517.3	258.4	89.1
	OTHER MANUEACTURING						
	OTHER MANUFACTURING Prefabricated building mfg						
2911	Prefabricated building mfg Prefabricated metal building mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2919	Prefabricated building mfg n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
291	Total	406	12.6	92.1	21.2	226.9	52.3
0004	Furniture mfg						
2921	Wooden furniture and upholstered seat mfg	3 113	68.8	286.9	84.5	92.2	27.1
2922	Sheet metal furniture mfg	42	1.1	4.9	1.9	116.2	44.7
2923 2929	Mattress mfg (except rubber) Furniture mfg n.e.c.	110 422	2.7 13.1	13.2 50.8	4.7 19.0	120.3 120.6	42.6 45.2
292	Total	3 686	85.7	355.8	110.1	96.5	29.9
202	rotar	3 000	00.1	000.0	110.1	30.5	23.3
	Miscellaneous manufacturing						
2941	Jewellery and silverware mfg	162	4.0	20.5	7.1	127.0	44.1
2942	Toy and sporting good mfg	283	7.5	32.7	11.1	115.7	39.4
2949	Manufacturing n.e.c.	858	21.8	78.0	26.8	90.9	31.2
294	Total	1 303	33.3	131.3	45.1	100.8	34.6
29	Total other manufacturing	5 395	131.5	579.2	176.4	107.4	32.7
21–29	TOTAL MANUFACTURING	86 602	2 997.0	19 664.1	6 883.2	227.1	79.5

- (a) See paragraph 5 of the Explanatory Notes.
- (b) Includes working proprietors.
- (c) Excludes the drawings of working proprietors.
- (d) Commencing with the 1997–98 manufacturing collection, new international $\,$ standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.
- (e) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory
- (f) Turnover divided by the number of persons employed at the end of June. Includes working proprietors.
- (g) Industry value added divided by the number of persons employed at the end of June. Includes working proprietors.



	Employmer end of June		Wages and salaries(d)(e)		Tumover(e)(f)		Industry value added(e)(g)	
Employment size group	no.	%	\$m	%	\$m	%	\$m	%
• • • • • • • • • • • • • • • • • •			ERAGE AND TOB			• • • • • •	• • • • • • • • • •	• • • •
0-4 persons	416	2.6	7.2	1.5	64.0	1.4	19.4	1.3
5–9 persons	581	3.6	12.5	2.5	115.9	2.6	27.9	1.9
10–19 persons	818	5.1	17.7	3.6	140.5	3.2	41.8	2.9
20–49 persons	1 841	11.5	54.4	11.0	506.7	11.5	151.8	10.5
50–99 persons	2 169	13.6	65.6	13.3	572.9	13.0	161.1	11.1
Total less than 100 persons	5 826	36.5	157.4	31.9	1 399.9	31.7	402.0	27.7
100-199 persons	3 187	20.0	100.9	20.5	889.2	20.1	275.6	19.0
200–499 persons	5 167	32.4	183.4	37.2	1 855.2	42.0	668.6	46.1
500-999 persons	1 778	11.1	51.6	10.5	271.6	6.2	103.4	7.1
1 000 or more persons	_	_	_	_	_	_	_	_
Total 100 or more persons	10 132	63.5	335.9	68.1	3 016.1	68.3	1 047.5	72.3
Total	15 958	100.0	493.3	100.0	4 416.0	100.0	1 449.6	100.0
• • • • • • • • • • • • • • • • • • • •								
	TEXTILE,	CLOTHIN	G, FOOTWEAR AI	ND LEATH	ER MANUFACTU	JRING		
0–4 persons	429	9.6	4.7	3.6	25.3	3.3	7.9	3.4
5–9 persons	399	8.9	6.4	5.0	23.4	3.1	8.6	3.7
10–19 persons	334	7.5	6.5	5.0	29.4	3.9	9.0	3.9
20–49 persons	614	13.7	15.0	11.6	76.7	10.1	25.2	10.9
50–99 persons	362	8.1	9.5	7.3	44.8	5.9	15.0	6.5
Total less than 100 persons	2 137	47.7	42.1	32.6	199.6	26.3	65.8	28.4
100-199 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
200-499 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
500-999 persons	_	_	_	_	_	_	_	_
1 000 or more persons	_	_	_	_	_	_	_	_
Total 100 or more persons	2 343	52.3	86.8	67.4	559.9	73.7	166.2	71.6
Total	4 480	100.0	128.8	100.0	759.5	100.0	232.0	100.0
• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • • • • • •	• • • •
		WOOD AN	ID PAPER PRODI	JCT MANI	UFACTURING			
0–4 persons	387	6.9	6.0	3.0	31.6	3.1	8.2	2.3
5–9 persons	365	6.5	7.6	3.8	32.3	3.2	11.4	3.1
10–19 persons	665	11.8	18.5	9.3	74.7	7.4	29.3	8.0
20–49 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
50–99 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
Total less than 100 persons	2 452	43.6	60.3	30.4	282.1	28.0	89.9	24.6
100-199 persons	1 102	19.6	39.3	19.8	183.2	18.2	81.8	22.4
200-499 persons	2 068	36.8	98.9	49.8	540.6	53.7	193.4	53.0
500–999 persons	_	_	_	_	_	_	_	_
1 000 or more persons	_	_	_	_	_	_	_	_
Total 100 or more persons	3 170	56.4	138.2	69.6	723.9	72.0	275.2	75.4
Total	5 621	100.0	198.4	100.0	1 006.0	100.0	365.1	100.0

⁽a) See paragraph 5 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.

⁽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 1997–98 but were not operating at 30 June 1998. See paragraph 19 of the Explanatory Notes.

⁽f) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.

⁽g) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory Notes.



	Employmer end of June		Wages and salaries(d)(e).		Turnover(e)(f)		Industry value added(e)(g)	
Employment size group	no.	%	\$m	%	\$m	%	\$m	%
• • • • • • • • • • • • • • • •								• • • •
	I	PRINTING,	PUBLISHING A	ND RECO	RDED MEDIA			
0–4 persons	547	9.6	9.3	4.9	37.7	4.9	17.2	4.9
5–9 persons	598	10.5	15.4	8.2	54.1	7.0	25.5	7.3
10–19 persons	660	11.5	18.1	9.6	79.2	10.2	29.0	8.3
20–49 persons	925	16.2	26.3	14.0	94.5	12.2	38.3	11.0
50–99 persons	796	13.9	26.3	14.0	86.6	11.2	41.3	11.8
Total less than 100 persons	3 526	61.7	95.5	50.7	352.1	45.5	151.3	43.3
100-199 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
200-499 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
500–999 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
1 000 or more persons	_	_	_	_	_	_	_	_
Total 100 or more persons	2 193	38.3	93.0	49.3	422.3	54.5	197.7	56.7
Total	5 719	100.0	188.4	100.0	774.4	100.0	349.0	100.0
• • • • • • • • • • • • • • • • • • • •	• • • • • • •		• • • • • • • • • •		• • • • • • • • • • • •	• • • • • • •	• • • • • • • • • •	• • • •
PETRO	DLEUM, C	OAL, CHEN	MICAL AND ASS	OCIATED	PRODUCT MANU	JFACTURIN	IG	
0–4 persons	158	2.3	3.2	1.3	18.1	1.2	5.5	0.9
5–9 persons	421	6.1	8.5	3.4	51.5	3.3	20.1	3.2
10–19 persons	566	8.2	16.2	6.4	106.5	6.9	38.7	6.1
20–49 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
50–99 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
Total less than 100 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
100-199 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
200–499 persons	1 358	19.8	57.7	23.0	336.4	21.7	156.0	24.5
500–999 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
1 000 or more persons	_	_	_	_	_	_	_	_
Total 100 or more persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
Total	6 870	100.0	250.9	100.0	1 551.8	100.0	637.7	100.0
• • • • • • • • • • • • • • • • • • • •	NO.	N_METALI	IC MINIEDAL DD		1ANUFACTURING	• • • • • • •	• • • • • • • • • •	• • • •
0.4								
0–4 persons 5–9 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
10–19 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
20–49 persons	269 734	9.7	8.4	8.3	46.0 176.8	7.5	13.4	6.4
50–99 persons	134 n.p.	26.5	25.1 n.p.	24.7	n.p.	28.9	43.4	20.7 n.p.
Total less than 100 persons		n.p.		n.p.		n.p.	n.p.	
•	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
100–199 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
200–499 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
500–999 persons	_	_	_	_	_	_	_	_
1 000 or more persons Total 100 or more persons	 п.р.	— п.р.	— п.р.	т.р.	n.p.	т.р.	— п.р.	n.p.
	,,,,,			p.		p.	,,,,,	
Total	2 766	100.0	101.3	100.0	611.7	100.0	209.3	100.0

- (a) See paragraph 5 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.
- (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 1997–98 but were not operating at 30 June 1998. See paragraph 19 of the Explanatory Notes.
- (f) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.
- (g) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory Notes.



	Employment end of June		Wages and salaries(d)(e)		Turnover(e)(f)	Turnover(e)(f)		Industry value added(e)(g)	
Employment size group	no.	%	\$m	%	\$m	%	\$m	%	
• • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • •	• • • • • •	• • • • • • • • • •	• • • • • • •		• • • •	
		MET	AL PRODUCT M	ANUFACT	URING				
0–4 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
5–9 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
10–19 persons	1 103	9.6	33.2	7.6	164.5	6.3	57.9	6.1	
20–49 persons	2 104	18.2	66.9	15.3	304.8	11.6	118.8	12.6	
50–99 persons	2 001	17.3	69.0	15.8	330.0	12.6	120.3	12.7	
Total less than 100 persons	7 117	61.7	210.8	48.3	1 031.1	39.3	384.9	40.8	
100-199 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
200–499 persons	1 180	10.2	44.9	10.3	397.6	15.2	73.9	7.8	
500-999 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
1 000 or more persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
Total 100 or more persons	4 418	38.3	225.5	51.7	1 591.1	60.7	558.5	59.2	
Total	11 535	100.0	436.2	100.0	2 622.2	100.0	943.4	100.0	
• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • •	• • • • • •	• • • • • • • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • •	
		MACHINER	Y AND EQUIPM	ENT MAN	UFACTURING				
0–4 persons	1 016	3.6	20.2	1.9	75.9	1.0	33.0	1.3	
5–9 persons	1 346	4.8	31.5	3.0	108.1	1.5	43.7	1.7	
10–19 persons	1 702	6.0	49.4	4.7	180.0	2.5	80.4	3.2	
20–49 persons	2 794	9.9	84.1	8.0	341.9	4.7	133.5	5.3	
50–99 persons	2 149	7.6	79.8	7.6	440.3	6.0	121.1	4.8	
Total less than 100 persons	9 006	31.9	265.0	25.1	1 146.2	15.7	411.8	16.4	
100-199 persons	2 533	9.0	88.1	8.4	559.6	7.7	173.0	6.9	
200-499 persons	4 654	16.5	184.6	17.5	828.5	11.4	324.8	12.9	
500–999 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
1 000 or more persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
Total 100 or more persons	19 250	68.1	789.8	74.9	6 151.7	84.3	2 107.0	83.6	
Total	28 257	100.0	1 054.8	100.0	7 297.8	100.0	2 518.9	100.0	
• • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • •	OTHER MANUF	ACTUDIN	C	• • • • • •	• • • • • • • • • • • •	• • • •	
			OTTIER MANOI	ACTORIN	u				
0–4 persons	826	15.3	10.2	7.8	51.4	8.9	17.4	9.9	
5–9 persons	668	12.4	14.8	11.3	57.5	10.0	21.6	12.3	
10–19 persons	889	16.5	20.2	15.5	80.9	14.0	28.4	16.2	
20–49 persons	1 152	21.4	31.0	23.8	110.6	19.2	37.1	21.1	
50–99 persons	868	16.1	25.3	19.4	114.2	19.8	37.9	21.5	
Total less than 100 persons	4 403	81.6	101.6	77.9	414.5	71.9	142.4	81.0	
100-199 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
200–499 persons	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
500–999 persons	_	_	_	_	_	_	_	_	
1 000 or more persons	_	_	_	_	_	_	_	_	
Total 100 or more persons	992	18.4	28.9	22.1	162.0	28.1	33.4	19.0	
Total	5 395	100.0	130.5	100.0	576.6	100.0	175.8	100.0	

⁽a) See paragraph 5 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.

⁽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 1997–98 but were not operating at 30 June 1998. See paragraph 19 of the Explanatory Notes.

⁽f) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.

⁽g) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory Notes.

	Employmer end of June		Wages and salaries(d)(e).		Tumover(e)(f)		Industry value added(e)(g)	
Employment size group	no.	%	\$m	%	\$m	%	\$m	%
• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • •	• • • • • • • • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • •
			TOTAL MANUF	ACTURIN	NG			
0–4 persons	4 733	5.5	78.9	2.6	410.4	2.1	145.7	2.1
5–9 persons	5 746	6.6	126.9	4.3	597.9	3.0	219.0	3.2
10–19 persons	7 006	8.1	188.2	6.3	901.7	4.6	328.0	4.8
20–49 persons	11 493	13.3	346.6	11.6	1 865.3	9.5	640.0	9.3
50–99 persons	10 907	12.6	354.4	11.9	2 096.7	10.7	662.7	9.6
Total less than 100 persons	39 884	46.1	1 094.9	36.7	5 872.1	29.9	1 995.4	29.0
100-199 persons	11 248	13.0	387.0	13.0	2 645.0	13.5	895.7	13.0
200-499 persons	17 641	20.4	693.2	23.2	4 795.2	24.4	1 666.1	24.2
500–999 persons	7 186	8.3	312.9	10.5	1 482.3	7.6	681.6	9.9
1 000 or more persons	10 643	12.3	494.6	16.6	4 821.4	24.6	1 641.9	23.9
Total 100 or more persons	46 717	53.9	1 887.8	63.3	13 743.8	70.1	4 885.3	71.0
Total	86 602	100.0	2 982.7	100.0	19 615.9	100.0	6 880.7	100.0

- (a) See paragraph 5 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.
- (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 1997–98 but were not operating at 30 June 1998. See paragraph 19 of the Explanatory Notes.
- (f) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.
- (g) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory Notes.

		Calan and transform		Exports as a proportion
		Sales and transfers	Amount experted	of sales and transfers
		out of goods for sale produced by	Amount exported by this business unit	out of goods for sale produced by this
INDLIS	TRY SUBDIVISION	this establishment	or by its agent	establishment
IIVDOS	THE SUBDIVISION	tilis establishment	or by its agent	establishinent
ANZSIC				
code	Description	\$m	\$m	%
• • • •	0.40.05		• • • • • • • • • • • • •	
	0-49 PEF	RSONS		
21	Food, beverage and tobacco mfg	002.0	110.0	477
22		803.8	142.6	17.7
23	Textile, clothing, footwear and leather mfg	n.p. 210.3	n.p.	n.p.
23 24	Wood and paper product mfg Printing, publishing and recorded media	239.2	0.5 7.1	0.3 2.9
25	Petroleum, coal, chemical and associated product mfg	334.8	24.5	7.3
26	Non-metallic mineral product mfg	242.9	9.3	3.8
27	Metal product mfg	623.8	4.3	0.7
28	Machinery and equipment mfg	591.0	29.6	5.0
20 29	Other manufacturing			
23	Other manufacturing	n.p.	n.p.	n.p.
21_2	9 Total manufacturing	3 473.6	229.5	6.6
21-2.	9 Total Mandiactuming	3 47 3.0	229.5	0.0
• • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • •
	50-99 PE	RSONS		
21	Food, beverage and tobacco mfg	543.3	54.8	10.1
22	Textile, clothing, footwear and leather mfg	n.p.	n.p.	n.p.
23	Wood and paper product mfg	57.7	_	_
24	Printing, publishing and recorded media	69.9	3.3	4.7
25	Petroleum, coal, chemical and associated product mfg	308.4	17.0	5.5
26	Non-metallic mineral product mfg	n.p.	n.p.	n.p.
27	Metal product mfg	304.1	17.7	5.8
28	Machinery and equipment mfg	390.5	65.0	16.6
29	Other manufacturing	110.2	3.6	3.2
04 0	D. Tatalana a Carl dag		470.4	
21-2	9 Total manufacturing	1 916.4	173.4	9.0
• • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • •
	100 OR MORE	PERSONS		
21	Food, beverage and tobacco mfg	2 934.0	674.0	23.0
22	Textile, clothing, footwear and leather mfg	542.2	282.3	52.1
23	Wood and paper product mfg	712.7	6.3	0.9
24	Printing, publishing and recorded media	253.7	14.8	5.8
25	Petroleum, coal, chemical and associated product mfg	776.6	78.4	10.1
26	Non-metallic mineral product mfg	n.p.	n.p.	n.p.
27	Metal product mfg	1 564.1	644.8	41.2
28	Machinery and equipment mfg	6 022.6	745.4	12.4
29	Other manufacturing	n.p.	n.p.	n.p.
21–29	9 Total manufacturing	13 180.3	2 456.6	18.6
	TOTA			
	1017	\L		
21	Food, beverage and tobacco mfg	4 281.1	871.4	20.4
22	Textile, clothing, footwear and leather mfg	727.2	296.7	40.8
23	Wood and paper product mfg	980.8	6.8	0.7
24	Printing, publishing and recorded media	562.8	25.2	4.5
25	Petroleum, coal, chemical and associated product mfg	1 419.8	119.9	8.4
26	Non-metallic mineral product mfg	569.0	26.3	4.6
27	Metal product mfg	2 492.0	666.8	26.8
28	Machinery and equipment mfg	7 004.1	840.0	12.0
29	Other manufacturing	533.7	6.4	1.2
-	3	555.1	5.1	2.2
21-29	9 Total manufacturing	18 570.3	2 859.5	15.4

⁽b) See paragraphs 20–22 of the Explanatory Notes.

⁽a) See paragraph 5 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. Also, this table excludes those manufacturing establishments which operated during 1997–98 but were not operating at 30 June 1998. See paragraph 19 of the Explanatory Notes.



INDUS	TRY SUBDIVISION	Employment at end of June(c)	Wages and salaries(d)	Turnover(e)	Industry value added(f)
ANZSIC					
code	Description	%	%	%	%
				• • • • • • •	
	ESTABLISHMENTS THAT	DO NOT EXPOR	RT		
21	Food, beverage and tobacco mfg	41.6	38.6	29.5	29.9
22	Textile, clothing, footwear and leather mfg	53.2	38.9	25.9	26.8
23	Wood and paper product mfg	82.1	81.1	80.1	80.8
24	Printing, publishing and recorded media	75.6	75.2	69.4	77.7
25	Petroleum, coal, chemical and associated product mfg	49.6	43.0	47.3	43.6
26	Non-metallic mineral product mfg	69.4	63.6	63.8	54.5
27	Metal product mfg	58.6	45.3	43.7	40.7
28	Machinery and equipment mfg	31.5	27.1	16.8	20.0
29	Other manufacturing	81.2	78.0	77.6	74.6
21-29	9 Total manufacturing	50.0	43.6	34.6	35.9
	• • • • • • • • • • • • • • • • • • • •				
ESTA	BLISHMENTS WITH EXPORTS UP TO AND INCLUDING	50% OF SALES	OF GOODS	THAT THEY	PRODUCED
21	Food, beverage and tobacco mfg	45.9	49.9	59.9	63.4
22	Textile, clothing, footwear and leather mfg	31.1	35.2	34.5	36.7
23	Wood and paper product mfg	17.9	18.9	19.9	19.2
24	Printing, publishing and recorded media	n.p.	n.p.	n.p.	n.p.
25	Petroleum, coal, chemical and associated product mfg	n.p.	n.p.	n.p.	n.p.
26	Non-metallic mineral product mfg	n.p.	n.p.	n.p.	n.p.
27	Metal product mfg	32.0	41.2	36.0	43.8
28	Machinery and equipment mfg	62.0	65.8	77.7	75.9
29	Other manufacturing	18.8	22.0	22.4	25.3
21–29	9 Total manufacturing	43.3	48.7	56.5	57.7
	• • • • • • • • • • • • • • • • • • • •				
Е	STABLISHMENTS WITH EXPORTS OF MORE THAN 50	% OF SALES OF	GOODS THA	T THEY PRO	DUCED
21	Food, beverage and tobacco mfg	12.5	11.5	10.6	6.6
22	Textile, clothing, footwear and leather mfg	15.6	25.9	39.6	36.5
23	Wood and paper product mfg	_	_	_	_
24	Printing, publishing and recorded media	n.p.	n.p.	n.p.	n.p.
25	Petroleum, coal, chemical and associated product mfg	n.p.	n.p.	n.p.	n.p.
26	Non-metallic mineral product mfg	n.p.	n.p.	n.p.	n.p.
27	Metal product mfg	9.4	13.5	20.2	15.5
28	Machinery and equipment mfg	6.5	7.1	5.5	4.1
29	Other manufacturing	0.1	_	_	_
21-29	9 Total manufacturing	6.7	7.7	8.9	6.4

⁽a) See paragraph 5 of the Explanatory Notes.

⁽b) See paragraphs 20–22 of the Explanatory Notes.

⁽c) Includes working proprietors.

⁽d) Excludes the drawings of working proprietors.

⁽e) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.

⁽f) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory Notes.

INTRODUCTION

- **1** This publication presents final statistics for South Australia compiled from a survey of manufacturing establishments for 1997–98, 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.
- **2** 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.
- **3** The manufacturing collection is conducted on an annual basis. For the 1997–98 collection, a sample of approximately 19,000 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 samples was selected to produce data on a range of other variables. The next manufacturing census will be conducted in respect of 2001–02, with sample surveys conducted for the next three years.
- **4** Estimates of IVA were compiled using data from the 19,000 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. (These commodity data will be published in the publication *Manufacturing Production, Commodities Produced, Australia, 1997–98* (Cat. no. 8365.0).) A sample of approximately 5,200 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, 1999* (Cat. no. 8225.0).

SCOPE AND COVERAGE

- **5** 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.
- **6** 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 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 1997–98 manufacturing collection, 'significant' was defined as turnover of \$7.3 million or more.

SCOPE AND COVERAGE continued

7 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 with the Australian Taxation Office. Though a substantial number, these businesses would contribute only marginally to aggregate data were they to be included. In addition, the Australian Bureau of Statistics (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.

STANDARD UNITS

8 For the definition of the standard business units now in use, see the Glossary.

RELIABILITY OF ESTIMATES

9 For information on this subject, see the Technical Note.

DATA ADJUSTED

10 Data in this issue have been 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 1997–98 turnover for South Australia is an increase of 0.2% while the effect on employment is an increase of 0.8%. All industry subdivisions were affected to a similar degree.

COMPARABILITY WITH PREVIOUS STATISTICS

11 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 new standards is as follows:

Turnover (as previously defined)

plus Income from intellectual property royalties

equals Turnover (new standards)

- **12** Conceptually, some further differences exist between turnover on the old and new 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.
- **13** Commencing with estimates for 1997–98, under new international standards, contribution to gross domestic product (GDP) by manufacturing industries will be 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.

COMPARABILITY WITH PREVIOUS STATISTICS continued

14 Composition of IVA estimates and their relationship to IGP estimates are:

Turnover (new standards)

plus Closing inventories less Opening inventories

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 business

less Selected indirect taxes (For manufacturing industries, the main types are fringe benefits tax, payroll tax, land rates and land taxes.)

equals IGP

- **15** Commencing with the 1993–94 manufacturing collection, manufacturers not employing staff at 30 June of the reference year (such as sole proprietorships or family partnerships) which had registered as group employers with the Australian Taxation Office have been included in the manufacturing collection. Data in respect of these 'non-employers' were excluded from the scope of the manufacturing collection for the 1988–89 to 1992–93 (inclusive) reference years. However, the inclusion of these types of businesses has only had a marginal affect on statistical aggregates.
- **16** Commencing with the 1994–95 manufacturing collection, multiestablishment 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.
- 27 As explained above, about 7,000 establishments included in the 1997–98 collection were asked to supply value of sales for commodities produced. A similar sampling procedure has been followed since the 1993–94 collection. The availability of this fine level commodity/activity data for these units has enabled ABS survey processing staff to better identify those establishments which were actually in the scope of the manufacturing collection and those which should not be included in the manufacturing collection, because (for example) they were actually wholesalers or retailers. These fine level commodity/activity data have also enabled an objective industry code to be determined for the responding units in the samples, compared to the more subjective industry coding which occurred for all units in the 1992–93 manufacturing collection. The industry code for the units not responding or not included in any of these commodity samples has continued to be a subjectively determined code.
- **18** 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.

EMPLOYMENT SIZE DATA

19 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 4. 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 5. The statistics in these two tables relate only to those manufacturing establishments operating at 30 June 1998. 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 1997–98.

EXPORTS BY MANUFACTURERS

- **20** 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 5 are derived by applying the percentage of exports reported for each exporting unit and then aggregating that figure. The data in table 5 exclude those manufacturing establishments which operated during 1997–98 but were not operating at 30 June 1998.
- **21** The statistics presented in table 5 for the value of exports by manufacturers or their agents are not intended to be the same as 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 5 and 6 only include exports directly undertaken by the manufacturer or by its agent.
- 22 The data in table 5 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 5 and 6. 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 5 and 6 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

23 The ABS conducts a manufacturing census one year in five, from which detailed regional data are available (with the last census being conducted in respect of 1996–97). In other years, an annual manufacturing survey is conducted. Due to sampling constraints, regional data have not been available from annual manufacturing surveys. However, investigations currently underway indicate that it may be possible to produce reliable estimates in sample survey years for Adelaide Statistical Division and Balance of South Australia. Estimates for these areas for 1997–98 are expected to be available early next year, on request, for a charge.

ACKNOWLEDGMENT

24 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

25 The *Information Paper: Availability of Statistics Related to Manufacturing* (Cat. no. 8205.0) outlines the vast amount of published and unpublished data available from the annual manufacturing industry collection, as well as data from other ABS collections.

RELATED PUBLICATIONS

- **26** A series of publications *Manufacturing Industry, [State], 1997–98* (Cat. nos 8221.1–8221.6) will be produced for each State. The publication for New South Wales (Cat. no. 8221.1) also contains selected data for the Australian Capital Territory. These publications are being released progressively.
- **27** Users may also wish to refer to the following publications:
- Business Operations and Industry Performance, Australia, 1997–98
 (Cat. no. 8140.0), to be released in December 1999—Annual publication
- Business Operations and Industry Performance, Australia, Preliminary, 1997–98 (Cat. no. 8142.0), released on 27 May 1999—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
- 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, 1999 (Cat. no. 8225.0), to be released in December 1999—Annual publication
- *Manufacturing Industry, Australia, Preliminary, 1998–99* (Cat. no. 8201.0), to be released in March 2000—Annual publication
- Manufacturing Production, Commodities Produced, Australia, 1997–98
 (Cat. no. 8365.0), to be released in December 1999—Annual publication

BACK DATA AND UNPUBLISHED STATISTICS

28 A range of manufacturing industry statistics publications is available for previous years. As well, a considerable amount of data from the annual manufacturing collection exists in unpublished form. More detailed information to satisfy individual user requirements may be available on request. In general, unpublished data consist of finer industry dissections of the published data. Other more detailed data may also be available. A charge is made for providing unpublished information. The information paper (Cat. no. 8205.0) referred to in paragraphs 25 and 27 also provides more details.

ROUNDING

29 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 10), this 'rounding rule' also applies to employment counts.

30 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.

SYMBOLS AND OTHER USAGES

ABS	Australian Bureau of Statistics
ANZSIC	Australian and New Zealand Standard Industrial Classification
GDP	Gross Domestic Product
IGP	Industry Gross Product
IVA	Industry Value Added
mfg	manufacturing
n.e.c.	not elsewhere classified
n.p.	not available for publication but included in totals where applicable
r	figure or series revised since previous issue
*	data subject to standard errors greater than or equal to 25% of the estimate, but less than 50% of the estimate
**	data subject to standard errors greater than or equal to 50% of the estimate, but less than 100% of the estimate $$
	not applicable
_	nil or rounded to zero

TECHNICAL NOTE DATA RELIABILITY

SAMPLE ERROR

- **1** The 1997–98 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 1997–98 (and 1992–93, 1994–95 and 1995–96) 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 two chances in three 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 1997–98 employment, wages and salaries, turnover and IVA data presented in this publication are nearly all 3% or less for industry subdivisions (see page 30) and most are 1.5% or less for industry classes.
- **4** Relative standard errors at the industry subdivision level for South Australia for selected data items representing the full range of data contained in this publication are shown in the section Standard Errors. Detailed relative standard errors can be made available on request.

NON-SAMPLE ERROR

- **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.
- **6** 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.

STANDARD ERRORS SELECTED DATA ITEMS

INDUSTF	RY SUBDIVISION	Employment at end of June(a)	Wages and salaries(b)	Turnover(c)	Industry value added(d)	Amount exported by this business unit or by its agent
ANZSIC						
code	Description	%	%	%	%	%
		• • • • • • •			• • • • • •	
21	Food, beverage and tobacco mfg	1.4	1.3	1.1	1.1	2.3
22	Textile, clothing, footwear and leather mfg	3.1	1.1	0.8	0.9	1.7
23	Wood and paper product mfg	5.7	1.9	1.6	2.1	4.0
24	Printing, publishing and recorded media	2.9	2.0	1.4	1.7	6.4
25	Petroleum, coal, chemical and associated product mfg	1.2	0.6	0.6	0.8	0.3
26	Non-metallic mineral product mfg	2.6	2.3	2.4	2.3	19.9
27	Metal product mfg	2.2	1.6	1.7	2.0	0.2
28	Machinery and equipment mfg	1.0	0.6	0.3	0.4	0.2
29	Other manufacturing	3.9	3.1	2.4	3.4	10.5
21–29	Total manufacturing	0.7	0.4	0.4	0.4	0.8

⁽a) Includes working proprietors.

⁽b) Excludes the drawings of working proprietors.

⁽c) Commencing with the 1997–98 manufacturing collection, new international standards apply to the calculation of turnover. For more details, see paragraphs 11 and 12 of the Explanatory Notes.

⁽d) Commencing with the 1997–98 manufacturing collection, industry value added replaces industry gross product as the measure of an industry's contribution to gross domestic product. For more details, see paragraphs 13 and 14 of the Explanatory Notes.

ABS Australian Bureau of Statistics

Amount exported by this business unit or by 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 for own use

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

Conceptually, 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.

Change in inventories

The value of total closing inventories minus total opening inventories.

Closing inventories

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

Commission manufacturing

Significant amounts of manufacturing are undertaken on a commission basis by one manufacturer on behalf of another manufacturer or by a manufacturer on behalf of a non-manufacturer. Typically, a commission manufacturing transaction will involve a client commissioning the production of goods by a producing establishment from materials provided by the client. Ownership of those materials remains with the client. Similarly, the goods made from those 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 along with 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 stocks 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.

Employment at end of June

The number of working proprietors, working partners, permanent, part-time, temporary and casual employees, and managerial and executive employees working for an establishment during the last pay period ending in June each year. Employees absent on paid or prepaid leave are included, as are employees on workers' compensation who continue to be paid through the payroll system. Non-salaried directors, self-employed persons such as consultants, contractors and persons paid solely by commission without a retainer, and volunteer workers 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 (as amended by the *Corporations Legislation Amendment Act 1991*). 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, 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 unit 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 unit 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

(Table 5)

Establishments that reported exports (either by their business unit 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 for sale produced by this establishment 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 unit or by its agent. In table 5, the ratio is calculated by dividing the total value of goods exported by the total value of sales and transfers out of goods for sale produced by all establishments, not just the aggregated value for those units which exported.

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, Jobstart and apprenticeship 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 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 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.

Industry gross product (IGP) continued

The relationship between IVA estimates and IGP estimates is:

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

IVA

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

operating expenses)

equals IVA

However, it should be noted that IVA is not a measure of operating profits 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 (for details, see the entry for operating expenses)

plus Opening inventories less Closing inventories

Location

A location is a physical unit of the establishment. It consists usually of an unbroken physical area or site, occupied by an establishment, at which, or from which, the establishment engages in productive activity on a relatively permanent basis. An establishment can consist of one or more locations. In specified circumstances, non-contiguous sites occupied by the same establishment can be combined to form a location.

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, 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). Conversely, there are some establishments predominantly engaged in non-manufacturing activities which also undertake limited manufacturing activities and which are excluded.

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 in respect of non-manufacturing activities). Conversely, there are some management units predominantly engaged in non-manufacturing activities which have establishments engaged in manufacturing activities and which are excluded.

Opening inventories

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

Operating expenses continued

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 produced (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 provision expenses for employee entitlements Employer contributions to superannuation funds

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

Own account capital work

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

Conceptually, 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 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 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 1997–98 collection, a business may have reported data for the year ended 31 December 1997.

Sales and transfers out of goods

Includes sales of goods whether or not produced by the business and sales of goods produced for the business on a commission basis (see the entry for commission manufacturing). Also includes transfers of goods to other establishments of the same business or to related businesses and installation and delivery charges not separately invoiced to customers. 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. (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 for sale produced by this establishment (Table 5) Sales as defined in sales and transfers out of goods, plus transfers out of goods produced by this establishment for sale. 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 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* (Cat. no. 1216.0).

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 estimated in this publication and turnover as defined by the new international standards. These differences are explained as part of the definition of the component item own account capital work. Full compliance with the new 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 prices commensurate with the prices which would have been received if the establishments concerned had been under separate ownership, i.e. at commercial selling price. 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, but excludes reimbursements or allowances to employees for travel, entertainment, etc. For the 1995–96 collection only, 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 excluded. The drawings of working proprietors are also excluded.

Wages and salaries to turnover ratio

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.

SELF-HELP ACCESS TO STATISTICS

CPI INFOLINE For current and historical Consumer Price Index data,

call 1902 981 074 (call cost 75c per minute).

DIAL-A-STATISTIC For the latest figures for National Accounts, Balance of

Payments, Labour Force, Average Weekly Earnings, Estimated Resident Population and the Consumer Price Index call 1900 986 400 (call cost 75c per minute).

INTERNET www.abs.gov.au

LIBRARY A range of ABS publications is available from public and

tertiary libraries Australia-wide. Contact your nearest library to determine whether it has the ABS statistics

you require.

WHY NOT SUBSCRIBE?

PHONE +61 1300 366 323

FAX +61 3 9615 7848

CONSULTANCY SERVICES

ABS offers consultancy services on a user pays basis to help you access published and unpublished data. Data that is already published and can be provided within 5 minutes is free of charge. Statistical methodological services are also available. Please contact:

INQUIRIES	City	By phone	By fax
	Canberra	02 6252 6627	02 6207 0282
	Sydney	02 9268 4611	02 9268 4668
	Melbourne	03 9615 7755	03 9615 7798
	Brisbane	07 3222 6351	07 3222 6283
	Perth	08 9360 5140	08 9360 5955
	Adelaide	08 8237 7400	08 8237 7566
	Hobart	03 6222 5800	03 6222 5995
	Darwin	08 8943 2111	08 8981 1218

POST Client Services, ABS, PO Box 10, Belconnen ACT 2616

EMAIL client.services@abs.gov.au



RRP \$17.50

[©] Commonwealth of Australia 1999