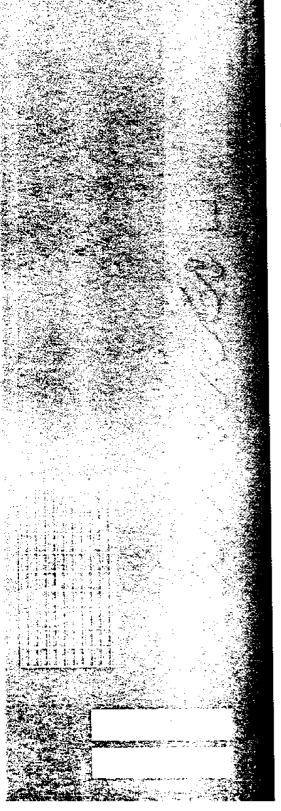


1992-93

EMBARGOED UNTIL 11:30 AM 26 JULY 1996

Manufacturing Industry

Tasmania





MANUFACTURING INDUSTRY TASMANIA 1992–93

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Government Statistician of Tasmania

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INQUIRIES	for further information about statistics in this publication and the availability of related unpublished statistics, contact John Ridley on Sydney (02) 9268 4541 or any other ABS office.
	 for information about other ABS statistics and services please refer to the back page of this publication.

INTRODUCTION

ABOUT THIS ISSUE

This publication contains detailed industry statistics compiled from a survey of manufacturing establishments (see paragraphs 8 and 9 of the Explanatory Notes) conducted in respect of 1992–93. With some comparative statistics for earlier years. It expands and updates the information for Tasmania which was published in *Manufacturing Industry*. Australia, 1992–93, Preliminary (8201.0), which was released on 25 August 1994 and Manufacturing Industry, Australia, 1992–93 (8221.0), which was released on 12 March 1996. All previous manufacturing collections were conducted on a census basis.

For the 1992–93 manufacturing collection, a sample of approximately 21,000 manufacturing businesses, nationally, was approached to provide detailed information on employment, wages and salaries paid, income, expenses, and assets and liabilities. In addition to this 'traditional' output, this publication also presents data on gross product at factor cost (average 1989–90 prices) in table 5. Conversely, no sub-State data are contained in this publication. This is a direct result of the 1992–93 collection being a sample survey and not a census. These data will be next available in respect of the 1993–94 reference year.

New industry classification

This publication introduces the new industry classification to a broad range of annual manufacturing statistics. The new classification is the Australian and New Zealand Standard Industrial Classification (ANZSIC), which replaces the Australian Standard Industrial Classification (ASIC) used prior to the 1992–93 reference year. Manufacturing collections dating back to the 1989–90 reference year have been coded using both industry classifications. All time series comparisons in this publication are made on a consistent ANZSIC basis. More information on this industry classification can be found in the introduction to table 10 in the 1991–92 issue of this publication and in the Australian and New Zealand Standard Industrial Classification, 1993 (1292.0).

New industry gross product measure

Industry gross product is a measure which closely approximates the National Accounting data item 'gross product at factor cost'. Data for gross product at factor cost (at average 1989–90 prices) by industry subdivision are contained in table 5 of this publication. The data item industry gross product is used widely in the range of economic statistics produced by the ABS. Adoption of industry gross product for manufacturing statistics will facilitate comparison of net production by the manufacturing industry with net production of other industries, as well as providing a better net production measure for the manufacturing industry.

In terms of definition, the difference between value added and industry gross product is that industry gross product takes into account more of the operating expenses which are incurred by manufacturers in the production, marketing and distribution processes. However, industry gross product for an industry should not be interpreted as profit or surplus for that industry. There are several important expense items which are not included in the calculation.

An indicator of the difference is given by total manufacturing in Tasmania for 1992–93, where establishment value added amounted to \$1.5 billion while establishment industry gross product amounted to \$1.2 billion. Estimates for 1992–93 establishment industry gross product for individual manufacturing industries are available on request.

ADJUSTED FIGURES IN FUTURE ISSUES OF THIS PUBLICATION

Recent investigations have shown that not all manufacturers falling within the scope of the 1992-93 manufacturing survey were recorded on the ABS business register at the time that the sample was selected. It has not been feasible to adjust the detailed information contained in this publication to allow for the operations of these excluded manufacturers. The shortfall for total Tasmanian manufacturing is approximately 3% for 1992-93 turnover and 6% for employment at the end of June 1993.

Adjustments to allow for the shortfall in 1992-93 data will be carried out as soon as feasible. Adjusted data for broad aggregates for the year 1992-93 will appear in the 1993-94 issue of this publication, which will also contain an explanation of the adjustment process. In the interim, further information concerning the adjustments is available from the ABS (see 'Inquiries' on page iii) or by reference to paragraphs 13 and 14 of the Explanatory Notes to the 1993-94 issue of *Manufacturing Industry*, *Australia, Preliminary* (8201.0).

UNPUBLISHED DATA

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. Further details can be obtained by contacting the NSW Office of the ABS — see page iii for contact details.

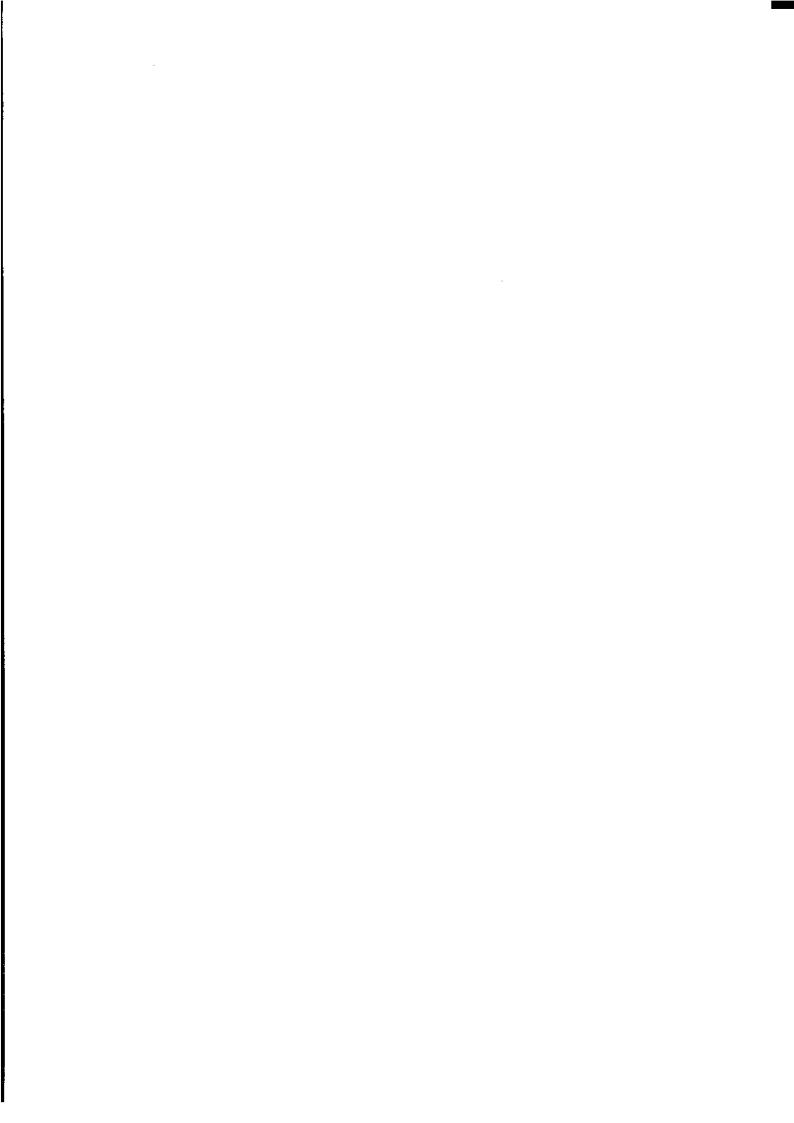


TABLE 1. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY SUBDIVISION TASMANIA, 1989-90 TO 1992-93 (b)

Industry	v subdivision		Establishments at 30 June	Employment at end of June	Wages and salaries	Turnover	Persons emploved per	Turnover per person employed
 ANZS/C code	Description		(c) (No.)	(d) ('000)	(e)(f) (Sm)	(f) (\$m)	establishment (No.)	(f)(g) (\$'000)
21	Food, beverage and							
	tobacco mfg	1992-93	118	5.8	146.8	1,215.1	49	208.9
	2	1991-92	128	6.0	153.4	1,173.0	47	194.2
		1990-91	130	6. l	149,2	1,167.0	47	192,0
		1989-90	131	6.5	147.8	1,112.3	50	171.9
22	Textile, clothing, footwear	4000 00						
	and leather mfg	1992-93	33	1.8	41.9	182.9	54	101.8
		1991-92	32	1.8	39.5	177.3	56	99.6
		1990-91 1989-90	36 29	1.8 1.9	37.9 40.7	182.2 181.4	49 64	103.1 97.3
23	Wood and paper product mfg	1992-93	150	4.4	170.8	942.0	29	215.6
4.J	wood and paper product mig	1991-92	157	5.0	206.5	965.6	32	193.3
		1990-91	173	5.5	192.3	1,111.2	32	200.4
		1989-90	182	6.1	178.1	1,123.6	33	184.7
24	Printing, publishing and							
	recorded media	1992-93	58	1.5	41.6	122.6	26	81.3
		1991-92	72	1.7	42.5	128.3	24	74,4
		1990-91	62	1.7	42.4	124.4	27	73.4
		1989-90	65	1.8	39.1	117.1	27	66.8
25	Petroleum, coal, chemical and	1002 03	41	0.8	29.0	214.5	20	260.9
	associated product mfg	1992-93 1991-92	46 46	0.8	29.0 31.5	208.3	19	240.0
		1990-91	37	0.9	43.2	231.6	24	259.7
		1989-90	45	1.2	38.6	238.5	27	197.7
26	Non-metallic mineral							
	product mfg	1992-93	43	0.8	25.4	188.7	19	232.1
		1991-92	50	0.9	26.6	159.6	t 8	182.4
		1990-91	40	0.9	25.3	151.4	21	176.6
		1989-90	45	0.9	20.8	152.2	19	178.8
27	Metal product mfg	1992-93	130	4.0	148.4	826.9	31	206.6
		1991-92	131	4.3	147.2	815.1	33	189.2
		1990-91 1989-90	140 140	4.6 4.7	153.1 152.0	894.7 903.7	33 34	196.0 191.6
28	Machinery and							
-0	equipment mfg	1992-93	120	1.9	45.9	178.5	16	95.2
	odnibinent mig	1991–92	130	1.8	47.2	201.5	14	114,3
		199091	137	2.2	54.1	196.3	16	88.8
		1989-90	133	2.2	52.0	186.6	16	86.4
29	Other manufacturing	1992-93	79	0.7	14.1	53.0	9	77.6
	_	1991-92	91	0.8	16.4	58.0	9	74.7
		199091	94	0.9	19.3	63.1	10	68.4
		1989–90	103	1.1	21.5	77.3	11	69. i
21 20	Total manufacturing	1992-93	772	21.7	663.9	3,924.2	28	180.9
21-29	Total manufacturing	1992-93	837	23.1	710.8	3,886.6	28	168.0
		1990-91	849	24.5	716.6	4,121.9	29	168.0
		1989~90	873	26.2	690.6	4,092.5	30	156.1

⁽a) See paragraph 8 of the Explanatory Notes. (b) For comparability of data over the time periods shown, see paragraph 15 of the Explanatory Notes. (c) See paragraphs 5 to 11 of the Explanatory Notes. (d) Includes working proprietors. (e) Excludes the drawings of working proprietors. (f) Value data are at current prices and, therefore, do not discount the impact of price changes. (g) Turnover divided by the number of persons employed at the end of June.

TABLE 2. MANUFACTURING ESTABLISHMENTS (a): NUMBER OF ESTABLISHMENTS BY INDUSTRY CLASS TASMANIA, 30 JUNE 1993

Industr	y class	Establishments	maustr	y class	Establishment
ANZSIC code	Description	at 30 June (b) (No.)	ANZSI) code	C Description	at 30 June (b (No.
	FOOD, BEVERAGE AND TOBACCO ME			TEXTILE, CLOTHING, FOOTWEAR	
	Meat and meat product mfg—	C1		AND LEATHER MFG—continued	
2111	Meat processing	9		Clothing mfg—	
2112	Poultry processing	2 5	2241	Men's and boys' wear mfg	:
2113	Bacon, ham and smallgood mfg		2242	Women's and girls' wear mfg	_
211	Total	16	2243 2249	Sleepwear, underwear and infant clothing mfg Clothing mfg n.e.c.	
	Daily and do at mafe		224	Total	
2121	Dairy product mfg— Milk and cream processing	2	-27	1 17244	
2121 2122	lee cream mfg	3 l	225	Footwear mfg	
2129	Dairy product mfg n.c.c.	9		· · ·	
212	Total	13		Leather and leather product mfg-	
			2261	Leather taining and für dressing	
213	Fruit and vegetable processing	Ÿ	2262 226	Leather and leather substitute product mfg Total	_
714	Oil and fat mile		7	10/10	
214	Oil and fat mfg		22	Total textile, clothing, footwear and leather mfg	2 3
	Flour mill and cereal food mfg-			3.7	
2151	Flour mill product mfg	3		WOOD AND PAPER PRODUCT MFG—	
2152	Cereal food and baking mix mfg	I		Log sawmilling and timber dressing—	_
215	Total	4	2311	Log sawmilling	6
			2312 2313	Wood chipping Timber resawing and dressing	1
01/1	Bakery product mfg—	18	231	Total	8
2161	Bread mfg	17	201	7 0144	
2162 2163	Cake and pastry mfg Biscuit mfg			Other wood product mfg—	
216	Total	35	2321	Plywood and veneer mfg	
_10	7 (7.00)		2322	Fabricated wood mig	
	Other food mfg—		2323	Wooden structural component mfg	3
2171	Sugar mfg	_	2329	Wood product mfg n.e.c.	2 6
2172	Confectionery mfg	2	232	Total	(,
2173	Seafood processing	19 .4		Paper and paper product mfg—	
2174	Prepared animal and bird feed mfg	4 5	2331	Pulp, paper and paperboard mfg	
2179 217	Food mfg n.e.c. Total	$3\tilde{ heta}$	2332	Solid paperboard container mfg	_
217	mai		2333	Corrugated paperboard container mfg	
	Beverage and malt infg-		2334	Paper bag and sack mfg	
2181	Soft drink, cordial and syrup mfg	4	2339	Paper product mfg n.e.c.	
2182	Beer and malt mfg	4	233	Total	
2183	Wine mfg	3	23	Total wood and paper product mfg	15
2184	Spirit mfg		23	total word and paper product mys	
218	Total	1.		PRINTING, PUBLISHING AND	
219	Tobacco product mfg			RECORDED MEDIA—	
217	Tonacco product mgg			Printing and services to printing	
21	Total food, beverage and tobacco mfg	118	2411	Paper stationery mfg	
			2412	Printing	2
	TEXTILE, CLOTHING, FOOTWEAR		2413 241	Services to printing Total	4
	AND LEATHER MFG—		_71	10141	
2211	Textile fibre, yarn and woven fabric mfg— Wool scouring	_		Publishing	
2212	Synthetic fibre textile mfg	2	2421	Newspaper printing or publishing	
2213	Cotton textile mfg	$\bar{3}$	2422	Other periodical publishing	
2214	Wool textile mfg	3 2	2423	Book and other publishing	
2215	Textile finishing	1	242	Total	•
221	Total	8	142	Recorded media manufacturing and publishing	_
	Tarrella mandant sefe		243	ver or then ment in manufacturing and broughing	
2221	Textile product mfg— Made-up textile product mfg	10	24	Total printing, publishing and recorded media	:
2222	Textile floor covering mfg	2			
2223	Rope, cordage and twine mfg			PETROLEUM, COAL, CHEMICAL AND	
2229	Textile product mfg n.e.c.	1		ASSOCIATED PRODUCT MFG—	
222	Total	13	251	Petroleum refining	-
			252	But not on my and goal manh of wife was	
	Knitting mills—		252	Petroleum and coal product mfg n.e.c.	-
2231	Hosiery mfg	1			
2232 2239	Cardigan and pullover mfg Knitting mill product mfg n.e.c.	1			
	KATHER THE DIOMECTEMENT C.C.	L L			

TABLE 2. MANUFACTURING ESTABLISHMENTS (a): NUMBER OF ESTABLISHMENTS BY INDUSTRY CLASS TASMANIA, 30 JUNE 1993—continued

industry	eclass E	stablishments	Industr	/ Class	Establishments
ANZSIC	•	at 30 June (b) (No.)	ANZSIC code	Description	at 30 June (b) (No.)
ode	Description				1,10.
	PETROLEUM, COAL, CHEMICAL AND ASSOCIATED PRODUCT MFG—continue	ad.		METAL PRODUCT MFG—continued Non-ferrous basic metal product mfg	
	Basic chemical mfg—	u	2731	Aluminium rolling, drawing, extruding	_
531	Fertiliser mfg	l	2732	Non-ferrous metal rolling, drawing,	
532	Industrial gas mfg	2		extruding n.e.c.	_
533	Synthetic resin mfg	-	2733	Non-ferrous metal casting	2
2534	Organic industrial chemical mfg n.e.c.	l ₄	273	Total	4
2535	Inorganic industrial chemical mfg n.e.c.	4 8		Structural metal product mfg	
253	Total	13	2741	Structural steel fabricating	23
	Other chemical product mfg-		2742	Architectural aluminium product mfg	2 <u>2</u> 13
2541	Explosive mfg	1	2749	Structural metal product mfg n.e.c.	2 42
2542	Paint mfg	1	274	Total	42
2543	Medicinal and pharmaceutical product mfg	2		Sheet metal product mfg—	
2544	Pesticide mfg Soap and other detergent mfg		2751	Metal container mfg	3
2545 2546	Cosmetic and toiletry preparation mfg		2759	Sheet metal product mfg n.e.c.	2 ²
2547	Ink mfg	1	275	Total	25
2549	Chemical product mfg n.e.c.	i 3			
254	Total	10		Fabricated metal product mfg-	
			2761	Hand tool and general hardware mfg	2
	Rubber product mfg—	2	2762 2763	Spring and wire product mfg Nut, bolt, screw and rivet mfg	_
2551	Rubber tyre mfg Rubber product mfg n.e.c.	2 4	2764	Metal coating and finishing	- - -
2559 255	Total	6	2765	Non-ferrous pipe fitting mfg	2
200	1 Olar	, -	2769	Fabricated metal product mfg n.e.c.	34
	Plastic product mfg		276	Total	48
2561	Plastic blow moulded product mfg	1		model of the contract	1.3.
2562	Plastic extruded product mfg	3	27	Total metal product mfg	130
2563	Plastic bag and film mfg			MACHINERY AND EQUIPMENT MFG-	
2564	Plastic product, rigid fibre reinforced, mfg Plastic foam product mfg	2		Motor vehicle and part mfg	
2565 2566	Plastic injection moulded product mfg	10	2811	Motor vehicle mfg	
256 256	Total	17	2812	Motor vehicle body mfg	•
			2813	Automotive electrical and instrument mfg	
25	Total petroleum, coal, chemical and	4.5	2819	Automotive component mfg n.e.c.	I.
	associated product mfg	41	281	Total	4.
	NON-METALLIC MINERAL PRODUCT MI	FG—		Other transport equipment mfg—	
261	Glass and glass product mfg	5	2821	Shipbuilding	
	2000		2822	Boatbuilding	1+
	Ceramic mfg—	-	2823	Railway equipment mfg	
2621	Clay brick mfg	3 1	2824 2829	Aircraft mfg Transport equipment mfg n.e.c.	_
2622	Ceramic product mfg	1	282	Transport equipment ting meter.	I
2623	Ceramic tile and pipe mfg Ceramic product mfg n.e.c.	3	202	· Orac	
2629 262	Total	3 7		Photographic and scientific equipment mfg—	
2172	70141		2831	Photographic and optical good mfg	
	Cement, lime, plaster and concrete product mf		2832	Medical and surgical equipment mfg	1
2631	Cement and lime mfg]	2839 283	Professional and scientific equipment mfg n.e.	c . 2
2632	Plaster product mfg	1 13	283	Total	4
2633	Concrete slurry mfg	2		Electronic equipment mfg—	
2634 2635	Concrete pipe and box culvert mfg Concrete product mfg n.e.c.	7	2841	Computer and business machine mfg	
263	Total	24	2842	Telecommunication, broadcasting and	
200				transceiving equipment mfg	
264	Non-metallic mineral product mfg n.e.c.	7	2849	Electronic equipment mfg n.e.c.	1
26	Total non-metallic mineral product mfg	43	284	Total	•
	METAL PRODUCT MFG		2851	Electrical equipment and appliance mfg— Household appliance mfg	
	lron and steel mfg—		2852	Electric cable and wire mfg	_
2711	Basic iron and steel infg	8	2853	Battery mfg	_
2712	Iron and steel casting and forging	2	2854	Electric light and sign mfg	
2713	Steel pipe and tube mfg	$\frac{1}{II}$	2859	Fleetrical equipment mfg n.e.c.	-
271	Total	11	285	Total .	1
2721	Basic non-ferrous metal mfg— Alumina production	_			
2722	Aluminium smelting	1			
2723	Copper, silver, lead and zinc smelting, refin	ing I			
2729	Basic non-ferrous metal mfg n.e.c.				
272	Total	2			

TABLE 2. MANUFACTURING ESTABLISHMENTS (a): NUMBER OF ESTABLISHMENTS BY INDUSTRY CLASS TASMANIA, 30 JUNE 1993—continued

Industry	class	17:1	Industr	y class	Establishments
ANZSIC code	— -	tablishments it 30 June (b) (No.)	ANZSIO code	Description	at 30 June (b) (No.)
2861 2862 2863 2864 2865 2866 2867 2869 286	MACHINERY AND EQUIPMENT MFG—cor Industrial machinery and equipment mfg—Agricultural machinery mfg Mining and construction machinery mfg Food processing machinery mfg Machine tool and part mfg Lifting and material bandling equipment mfg Pump and compressor mfg Commercial space heating and cooling equipment mfg Industrial machinery and equipment mfg n.e. Total	6 5 2 3 10 -	2921 2922 2923 2929 292 294 2941 2942 2949 294	OTHER MANUFACTURING—continued Furniture mfg— Wooden furniture and upholstered seat mfg Sheet metal furniture mfg Mattress mfg (except rubber) Furniture mfg n.e.c. Total Miscellaneous manufacturing— Jewellery and silverware mfg Toy and sporting good mfg Manufacturing n.e.c. Total	42 2 3 47 1 1 3 17 21
28	Total machinery and equipment mfg	120	29	Total other manufacturing	79
2911 2919 291	OTHER MANUFACTURING— Prefabricated building mfg— Prefabricated metal building mfg Prefabricated building mfg n.e.c. Total	8 3 11	21-29	TOTAL MANUFACTURING	772

⁽a) See paragraph 8 of the Explanatory Notes. (b) See paragraphs 5 to 11 of the Explanatory Notes.

TABLE 3. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY CLASS TASMANIA, 1992-93

 Industry	class	Employment at end of			Total purchases. transfers in	
	·	June	salaries		and selected	Value
ANZSIC code	Description	(b) (No.)	(c) (\$ m)	Turnover (\$n i)	expenses (Sm)	added (3m)
	FOOD, BEVERAGE AND TOBACCO MFG— Meat and meat product mfg—					
2113 211	Bacon, ham and smallgood mfg Total (d)	179 1, 043	4.4 25.0	30.4 196.7	21.4 146.7	9.8 50.0
	Dairy product mfg					
2129 <i>212</i>	Dairy product mfg n.e.e. Total (d)	477 658	12.0 17.8	140.4 207.3	87.3 137.5	55.5 72.3
213	Fruit and vegetable processing	n.p.	n.p.	n.p.	n.p.	n.p.
214	Oil and fat mfg	_	_	_	_	_
	Flour mill and cereal food mfg					
2151 215	Flour mill product mfg Total (d)	56 n.p.	1.4 n.p.	28,9 n.p.	18.7 n.p.	10.3 n.p.
213			- riger		r	•
2161	Bakery product mfg Bread mfg	519	10.4	45.9	21.8	24.2
2162	Cake and pastry mfg	202	3.2	11.8	6.6	5.2
216	Total (d)	721	13.6	57.8	28.4	29.4
	Other food mfg—	gg.)	14.4	1212	LIE O	53.9
2173 217	Seafood processing Total (d)	771 1,750	14.4 42.4	171.3 360.8	115.0 224.8	132.6
	Beverage and malt mfg—					
2181	Soft drink, cordial and syrup mfg	145 178	n.p. n.p.	n.p. n.p.	n.p. n.p.	n,p. n,p.
2182 2183	Beer and malt mfg Wine mfg	6	n.p.	n.p.	n.p.	n.p.
218	Total (d)	329	10.3	97.8	51.9	45.2
219	Tobacco product mfg	_	_	_	_	_
21	Total food, beverage and tobacco mfg	5,817	146.8	1,215.1	774.5	441.9
	TEXTILE, CLOTHING, FOOTWEAR AND LEATHER MFG—					
	Textile fibre, yarn and woven fabric mfg-	307			n.p.	n.p.
2213 221	Cotton textile infg Total (d)	286 872	n.p. 22.2	n.p. 93.8	50.4	45.4
	Textile product mfg—	201				n n
2221 222	Made-up textile product mfg Total (d)	301 n.p.	п.р. <i>п.р</i> .	п,р. <i>п.р</i> .	п.р. <i>п.р</i> .	n.p. <i>n.p</i> .
223	Knitting mills	n.p.	n.p.	n.p.	n.p.	n.p.
224	Clothing mfg	27	n.p.	n.p.	n.p.	n.p.
225	Footwear mfg	361	n.p.	n.p.	n,p.	n.p.
226	Leather and leather product mfg	n.p.	n.p.	n.p.	п.р.	n.p.
22	Total textile, clothing, footwear and leather mfg	1,797	41.9	182.9	98.9	85.7
	WOOD AND PAPER PRODUCT MFG—					
2311	Log sawmilling and timber dressing— Log sawmilling	672	18.6	92.2	38.4	56.1
2312	Wood chipping	336	n.p.	n.p.	n.p.	n.p
2313	Timber resawing and dressing	714	n.p.	n.p. 366 f	n.p. 200.9	n.p <i>170</i> .3
231	Total	1,722	53.0	366.1	200.9	1 / tJ. 2

TABLE 3. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY CLASS TASMANIA, 1992–93—continued

Industr	y class	Employment at end of	Wages and		Total purchases, transfers in	
ANZSI	c	June (b)	salaries (c)	Turnover	and selected expenses	Value added
code	Description	(No.)	(\$m)	(\$m)	(\$m)	(\$m)
	Other wood product mfg—					
2323	Wooden structural component mfg	264	5.0	19.8	11.0	9.1
2329	Wood product mfg n.e.c.	134	2.0	7.3	3.8	3.6
232	Total (d)	n.p.	n.p.	n.p.	n.p.	n.p.
233	Paper and paper product mfg	n.p.	n.p.	n.p.	n.p.	п.р.
<i>23</i>	Total wood and paper product mfg	4.370	170.8	942.0	544.7	403.4
	PRINTING, PUBLISHING AND RECORDED MEDIA—					
2411	Printing and services to printing—	40		2.0	2.2	
2411 2412	Paper stationery mfg Printing	48 440	1.2 10.2	3.9 34.9	2.3 15.3	1.7 20.5
2413	Services to printing	72	1.5	34,9	13.3	20.5 2.5
241	Total	360	12.9	42.6	18.9	2.3 24.7
	Publishing—					
2421	Newspaper printing or publishing	911	27.9	77,0	26.0	51.5
242	Total (d)	949	28.6	80.0	27.4	53.0
243	Recorded media manufacturing and publishing		_	_	_	
24	Total printing, publishing and recorded media	1.509	41.6	122.6	46.4	77,7
251	PETROLEUM, COAL, CHEMICAL AND ASSOCIATED PRODUCT MFG Petroleum refining	_		_	* 17mm	_
252	Petroleum and coal product mfg n.e.c.		_	_	_	
253		364	15.3	131.8	97.0	45.4
233	Basic chemical mfg	304	13.3	131.6	86.0	45.4
0-40	Other chemical product mfg—	1.3				
2549 254	Chemical product mfg n.e.c.	12 170	n.p.	п.р.	n.p.	n.p.
234	Total (d)	170	7.3	43.0	20.4	23.8
255	Rubber product mfg	39	1.2	5.6	3.8	1.7
2542	Plastic product mfg—	on	1.4	10.5	0.4	
2562 256	Plastic extruded product mfg Total (d)	80 249	1.6 5.2	18.5 <i>34.1</i>	9.4 18.6	9.1 15.6
25	Total petroleum, coal, chemical and					
	associated product mfg	822	29.0	214.5	128.7	86.6
	NON-METALLIC MINERAL PRODUCT MFG—					
261	Glass and glass product mfg	n.p.	n.p.	n.p.	n.p.	n.p.
	Ceramic mfg—	42				
2621	Clay brick mfg	82	n.p.	n.p.	n.p.	n.p.
2629 262	Ceramic product mfg n.e.c. Total (d)	n.p. n.p.	0.2 n.p.	0.3 n.p.	0,1 n.p.	0.2 n.p.
	Cement, lime, plaster and concrete product mfg—	-	•	•	•	•
2633	Concrete slurry mfg	108	2,9	37.2	26.5	10.6
2635	Concrete product mfg n.e.c.	128	n.p.	п.р.	n.p.	n.p.
263	Total (d)	464	16.1	142.4	81.5	58.0
264	Non-metallic mineral product mfg n.e.c.	87	2.3	16.6	9.8	6.8
26	Total non-metallic mineral product mfg	813	25.4	188.7	104.6	81.4

TABLE 3. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY CLASS TASMANIA, 1992-93—continued

Industry	o class	Employment at end of June	Wages and salaries		Total purchases, transfers in and selected	Value
ANZSIC code	Description	(b) (No.)	(c) (\$m)	Turnover (\$m)	expenses (\$m)	a ided (\$m)
	METAL PRODUCT MFG					
2 71	Iron and steel mfg	п.р.	n.p.	n, p ,	n.p.	n.p.
272	Basic non-ferrous metal mfg	n.p.	n.p.	n.p.	n.p.	n.p.
273	Non-ferrous basic metal product mfg	n.p.	n.p.	n.p.	n.p.	n.p.
	Structural metal product mfg—					
2741	Structural steel fabricating	281	7,9	33.9	22.5	11.6
274	Total (d)	526	13.7	63.6	41.5	22.8
	Sheet metal product mfg—					
2751	Metal container mfg	112 177	n.p. n.p.	n.p. n.p.	n.p. n.p.	n.p. n.p.
2759 <i>275</i>	Sheet metal product mfg n.e.c. Toral	289	7.1	34.5	15.4	18.9
	Fabricated metal product mfg—					
2764	Metal coating and finishing	59	1.0	3.3	1.3	2.0
2769	Fabricated metal product mfg n.e.c.	268	5.4	20.4	10.4	10.0
276	Total (d)	439	10.0	33.9	15.9	18.0
27	Total metal product mfg	4,002	148.4	826.9	569.3	241.4
	MACHINERY AND EQUIPMENT MFG—					
	Motor vehicle and part mfg—	50	0.9	3,9	2.8	1.2
2812	Motor vehicle body mfg	50 63 <i>0</i>	16.4	3.9 48.6	17.7	31.4
281	Total (d)	0.50	10.4	40,17	2	21.,,
2022	Other transport equipment mfg	69	0.9	3.0	0.9	2.0
2822 282	Boatbuilding Total (d)	392	n.p.	n.p.	n.p.	n.p.
202		5. -			•	•
	Photographic and scientific equipment mfg-	30	0.6	3.2	1,7	1.5
2831 2832	Photographic and optical good mfg Medical and surgical equipment mfg	45	n.p.	n.p.	n.p.	n.p.
2839	Professional and scientific equipment mfg n.e.c.	10	0.2	0.9	0.4	0.5
283	Total	85	n.p.	n.p.	n.p.	n.p.
	Electronic equipment mfg—					
2849	Electronic equipment mfg n.e.c.	n.p.	2.2	8.0	4.1	4.3
284	Total (d)	112	n.p.	н.р.	n.p.	n.p.
	Electrical equipment and appliance mfg—	25	~~		n.p.	n.p.
2854 285	Electric light and sign mfg Total (d)	177	n.p. 4.0	n.p. 15.4	8.6	6.8
	·					
2861	Industrial machinery and equipment mfg Agricultural machinery mfg	34	0.7	3.3	2.0	1.4
2864	Machine tool and part mfg	18	0.3	1.0	0.4	0.6
2865	Lifting and material handling equipment mfg	219	6.0	22.9	9.8	13.3
2867	Commercial space heating and					и.
286	cooling equipment mfg. Total (di	11 480	n.p. 12.4	n.p. 47.3	n.p. 19,7	n.p. 28.2
				170 €	20 €	Q7 1
28	Total machinery and equipment mfg	1,876	45.9	178.5	89.5	81.9

TABLE 3. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY CLASS TASMANIA, 1992-93 -continued

Industr ANZSI		Employment at end of June (b)	Wages and salaries (c)	Turnover	Total purchases, uransfers in and setecied expenses	Value added
code	Description	(No.)	(Sm)	(\$m)	(Sm)	(Sm)
	OTHER MANUFACTURING— Prefabricated building mfg—				1111	
2911	Prefabricated metal building mfg	108	n.p.	n.p.	n.p.	п.р.
2919	Prefabricated building mfg n.e.c.	26	0.4	1.6	0.8	0.7
291	Total	134	n.p.	n.p.	n.p.	n. p.
	Furniture mfg—					
2921	Wooden furniture and upholstered seat mfg	404	7.3	24.4	12.8	11.9
292	Total (d)	462	8.7	30.5	16.8	14.0
	Miscellaneous manufacturing—					
2949	Manufacturing n.e.c.	69	1,2	3.5	1.5	1.9
294	Total (d)	87	n.p.	n.p.	n.p.	n.p.
29	Total other manufacturing	683	14.1	53.0	30,9	21.6
21-29	TOTAL MANUFACTURING	21,687	663.9	3,924,2	2,387.5	1,521.7

⁽a) See paragraph 8 of the Explanatory Notes. (b) Includes working proprietors. (c) Excludes the drawings of working proprietors. (d) The total shown is that for all ANZSIC classes within this industry group. Data for other ANZSIC classes within the industry group are either not available for publication (due to confidentiality restrictions) or there are no units classified to those ANZSIC classes.

TABLE 4. MANUFACTURING ESTABLISHMENTS (9): SELECTED OPERATING RATIOS BY INDUSTRY CLASS, TASMANIA, 1989-90 AND 1992-93

		5		F				2	-		•		
Induse	Industry class	ren enplo establis	Persons employed per establishment (b) (No.)	fur per couploy (\$	furnover per person employed (c)(d) (\$'000)	nito Pert (S)	Value added per perxon employed (c)(d) (\$1000)	wag salar conplo) (S)	rages and salarics per employee (d)(e) (\$'000)	Value 10 tu	Value added 10 tumover	Wages and salaries to value added	and s to itded
ANZSIC code	IC Description	06 6861	199293	1989-90	1992-93	06-6861	1992–93	1989–90	1992-93	1989: 981	1992-93	1989-90	1992–93
2111 2113 2113	FOOD, BEVERAGE AND TOBACCO MFG— Meat and meat product mfg Meat processing Bacon, ham and smallgood infg Total (f)		п. 36 65	208.2 n.p. 789.6	n.p. 155.1 191.7	64.3 n.p. 61.4	n.p. 50.1 48.7	24.9 n.p. 23.1	n.p. 22.6 24.5	0.31 n.p. 0.32	nt 03 62	0.39 n.p. 0.37	ութ. 0.45 0.50
2129 212	Dairy product mfg— Dairy product mfg n.e.c. Fotal (t)	50	53 51	271.8 283.4	282.5 306.7	179.5 159.6	111.7 106.9	23.5	24.2 26.4	0.56 0.56	0.40 0.35	0.13 0.15	0.22
213	Fruit and vegetable processing	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
214	Oil and fat mfg	n.p.		n.p.	1	n.p.	I	ū.ū.		n.p.		d. a	
2151 215	Flour mill and exteal food mfg Flour mill product mfg $Total(\emptyset)$.q.n .q.n	19 19.	и.р. и.р.	506.8 n.p.	п.р. <i>п.р</i> .	181.2 n.p.	п.р. <i>п.р</i> .	25.3 n.p.	0.p. n.p.	0.36 n.p.	в.р. н.р.	0.14 n.p.
2161 2162 216	Bakery product mfg— Bread mfg Cake and pastry mfg Total (f)	34 14 22	29 12 21	81.2 53.1 70.7	87.0 58.5 79.1	47.5 25.2 39.2	45.8 25.7 40.2	19.9 15.7 18.4	23.1 17.6 21.5	0.59 0.47 0.55	0.53 0.44 0.51	0,41 0.59 0.46	0.43 0.62 0.46
2173 2174 2179 2179	Other food mfg Scafood processing Prepared animal and bird feed mfg Food mfg n.e.c. Total (f)	n.p. 9 4 4	41 n.p. n.p.	n.p. 558.8 55.5 196.4	217.7 u.p. n.p. 206.5	лр. 101.2 23.0 73.0	68.5 n.p. n.p. 75.9	n.p. 28.1 20.3 24.8	18.4 n.p. 24.4	n.p. 0.18 0.41 0.37	0.31 n.p. n.p. 0.37	n.p. 0.26 0.81 0.34	0.27 n.p. n.p. 0.32
2181 2182 2183 218	Beverage and malt mfg————————————————————————————————————	n.p. 6.9. 34	36 45 2 30	11.p. 11.p. 11.p. 245.7	n.p. n.p. n.p. 276.1	n.p. n.p. n.p. 104.8	n.p. n.p. n.p. 127.8	n.p. n.p. n.p. 27.1	n.p. n.p. n.p. 29.5	n.p. n.p. n.p. 0.49	ութ. դ.թ. դ.թ. 0.46	n.p. n.p. n.p. 0.26	4 C C C C C C C C C C C C C C C C C C C
519	Tobacco product mfg		1				!	ļ	1		l	:	
23	Total food, beverage and tobacco mfg	20	49	178.1	208.4	76.6	75.8	23.8	25.7	0.43	0.36	0.31	0.33

TABLE 4. MANUFACTURING ESTABLISHMENTS (a): SELECTED OPERATING RATIOS BY INDUSTRY CLASS, TASMANIA, 1989-90 AND 1992-93-continued

AACSSOC Conditional part Interpretation of the properties of t			, A.O.	5 8 8 8 8	£	#ello	Volum	ultud	H	, ac		Ratio of	- fo	
Parameter Para	Industr	ey claws	employ establish (N	eed per ment (b) o.)	n na per p employe (\$'6)	erson ed (c)(d) ed (o)(d)	per p employe (S'(acaesa erson d (c)(d) d0)	salar salar emplo) (\$1	ies per ee (d)(e) 100)	Value 10 tur	added	Wages salarie	and s to ided
TEXTILE CLOTHING, POOTWEAR	ANZSI		06-6861	1992–93	06-6861	1992-93	1989-90	1992-93	1989–90	1992-93	1989-90	1992-93	1989–90	1992–93
Packing product migg— Made-up textile product migg— Final (1) 10 30 60.7 np. 24.8 np. 19.0 np.	2213 2214 221	TEXTILE, CLOTHING, POOTWEAR AND LEATHER MFG— Textile fibre, yarn and woven fabric mfg— Cotton textile mfg Wool textile mfg Total (f)	n.p. 184 173	95 n.p. 109	n.p. n.p. 108.2	n.p. n.p. 107.0	n.p.	n.p. n.p. 51.9	n.p. n.p. 22.6	n.p. n.p. 25.5.5	n.p. 0.54	n.p. 0.48	n.p. 8.p. 0.39	n.p.
Coching milks 1,2 2,4	2221 222	Textile product mfg— Made-up textile product mfg Total (f)	10 10.9.	30 n.p.	60.7 n.p.	n.p. n.p.	24.8 n.p.	n.p. n.p.	0.61 0.94	n.p. a.p.	0.41 n.p.	п.р. <i>п.р.</i>	0.77 14.p.	n.p. n.p.
Cooking milg Fig.	223	Knitting mills	n.p.	n.p.	n.p.	n.p.	n.p.	ď.u	n.p.	n.p.	n.p.	n.p.	n.p.	п.р.
Protection of the product of the protection of the product of th	224	Clothing mfg	[-~	7	39,6	n.p.	18.6	n.p.	15.3	n.p.	0.47	n.p.	0.72	ı,
Leather and leather product might be detailed clothing footnear and leather nife of thing footnear and leather nife of things and dressing— VOCID AND PAPER PRODUCT MFG. Log sawmilling and dressing— Log sawmilling and nipper ressing— Log sawmilling and dressing— Log sawmilling and nipper product migned— Noode chipping Timber resawing and dressing Log samming and dressing and dressing Log samming and dressing and samming and	225	Footwear mfg	120	06	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	ب تا.	n.p.
Total textile, clashing, footwear and leather nifg 64 54 94.0 103.7 49.3 48.6 21.2 24.0 6.5 24.7 6.47 6	226	Leather and leather product mfg	∞	n.p.	n.p.	n.p.	ų.	n.p.	n.p.	a.p.	n.p.	ıl.p.		n.p.
WOOD AND PAPER PRODUCT MEG 4 11 84.5 130.8 47.8 79.6 21.1 29.0 0.57 0.61 0.41 Log sawmiling and timber dessing———————————————————————————————————	22	Total textile, clothing, footwear and leather nife	79	54	0.76	103.7	49.3	48.6	21.2	24.0	0.52	0.47	0.43	0.49
Other wood product might. 7 7 74.5 78.7 34.6 35.9 20.8 24.3 0.46 0.46 0.54 Wooden structural component might.e.c. 6 7 61.7 65.5 27.5 32.8 16.3 23.3 0.45 0.50 0.53 Wood product might.e.c. 10 a.p.	2311 2312 2313 2313	WOOD AND PAPER PRODUCT MFG Log sawmilling and timber dressing— Log sawmilling Wood chipping Timber resawing and dressing	14 85 50 24	11 48 48 7,7	84.5 n.p. 0.p. 168.5	130.8 n.p. 706.5	47.8 n.p. n.p.	79.6 n.p. n.p.	21.1 mp. mp. 23.7	29.0 n.p. n.p.	0.57 - n.p. n.p. 0.42	0.61 n.p. n.p.	0.41 mp mp mp mp	뛰 를 를 짓
Paper and paper product mfg 330 n.p. n.p. n.p. n.p. n.p. n.p. n.p. Total wood and paper product mfg 33 29 179.5 208.3 67.3 89.2 29.1 38.9 0.43 0.42	2323 2329 232	Other wood product mig Wooden structural component mig Wood product mig n.e.c. Total (f)	7 6 10	10 to 10	74.5 61.7 n.p.	78.7 65.5 n.p.	34.6 27.5 n.p.	35.9 32.8 n.p.	20.8 16.3 n.p.	24.3 23.3 n.p.	0.46 0.45	0.46 0.50 0.48	0.54 0.53 n.p	.56 .56 .44.
Total wood and paper product mfg 33 29 179.5 208.3 67.3 89.2 29.1 38.9 0.37 0.43 0.42	233	Paper and paper product mfg	330	n.p.	n.p.	ï.j.	i. G	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	11.p.
	23	Total wood and paper product mfg	33	29	179.5	208.3	67.3	89.2	29.1	38.9	0.37	0.43	0.42	0.42

TABLE 4. MANUFACTURING ESTABLISHMENTS (a): SELECTED OPERATING RATIOS BY INDUSTRY CLASS, TASMANIA, 1989-90 AND 1992-93-continued

		Ξ		: &		100	1,1,1	2	,		Ratio of	<i>∳</i>	
Inchestr	Industry class	establist establist	Formus emplayed per establishment (b) Aso 1	rur per p employ	turnover per person employed (c)(d)	enploy Perty Soldina	r anic nanca per person employed (c)(d) (\$'000)	naga salar employ	vages and salaries per employee (d)(e) (\$'000)	Value	Value added	Wages and salaries to value added	nd to tred
ANZSIC	rc Description	06-6861	1992-93	06-6861	1992–93	06-6861	1992–93	06-6861	1992-93	06-6861	1992 93	06 6861	1992 93
2411	PRINTING, PUBLISHING AND PRICORDED MEDIA— Printing and services to printing Paper stationery mfg Printing Printing		 	п.р. 73.7	. 74.0 80.9 7.67	n.p. 39.7	32.8 47.5 47.1	n.p. 22.8	24.4	0.54	0.44 0.59 0.59	n.p. 0.54 n n	0.72 0.50 0.81
241	Total	14	14	72.2	4.77	39.6	44.9	23.1	25.1	0.55	0.58	0.56	0.52
2421 242	Publishing— Newspaper printing or publishing Total (f)	94 74	83 56	0.p. 67.4	84.4	1.94. 19.1	56.4 55.8	n.p. 24.0	30.7 30.5	n.p. 0.73	0.67 0.66	n.p. 94.0	0.54 0.54
243	Recorded media manufacturing and publishing		I	:		:	i	!	İ				
24	Total printing, publishing and recorded media	27	26	4.69	81.6	45.2	51.8	23.6	28.6	0.65	0.63	0.51	14.53
251	PETROLEUM, COAL, CHEMICAL AND ASSOCIATED PRODUCT MFGPetroleum refining	n.p.		n.p.	į	n.p.	i	n.p.	!	ďú		n.p.	
252	Petrofeum and coal product mfg n.e.c.	i	ļ	;	;	i			i	İ	I	1	
2535 253	Basic chemical mf g. Inorganic industrial chemical mfg n.e.c. <i>Total (f)</i>	129	n.p. 46	n.p. 270,6	n.p. 352.3	п.р. 112.1	n.p. 121.5	а.р. 38.3	n.p. 40.8	0.p.	#879 9734	n.p. 0.34	n.p. 0.34
2549 254	Other chemical product mfg Chemical product mfg n.e.c. <i>Total (f)</i>	n.p. 15	4	n.p. 127.3	n.p. 250.1	0.p. 58.7	n.p. 7.88.5	n.p. 26.0	n.p. 42.5	n.p. (1,46	n.p. 0.53	0.p.	n.p. 0.31
2551 255	Rubber product mfg Rubber tyre mfg Total (f)	13 n.p.	n.p.	131.8 n.p.	n.p. 136.9	78.2 n.p.	n.p. 41.9	23.5 n.p.	n.p. 30.5	0.59 n.p.	n.p. 0.31	0.29 n.p.	n.p. 0.77
2562 256	Plastic product infg— Plastic extruded product infg Total (f)	40	27	137.2	214.7 734.7	50.3 45.1	105.9 61.8	26.0 23.0	18.5	0.37	0.49 0.46	0.52	0,18 0,33
25	Total petroleum, coal, chemical and associated product mfg	27	20	192.4	255.3	81.8	103.1	31.3	35.1	(4.43	0.40	4.38	0.34

TABLE 4. MANUFACTURING ESTABLISHMENTS (a): SELECTED OPERATING RATIOS BY INDUSTRY CLASS, TASMANIA, 1989-90 AND 1992-93-continued

Particle Particle									į			Ratio of—	→ ¢o	
Committed Comm	lndusv	y cluss	Per employ extablish	sons ved per iment (b)	Twr pery emplos	nover person led (c)(d)	Value per , employ	e added person ved (c)(d)	Wag salar employ	es and ies per ee (d)(e)	Value	. added	Wages a	
NNN-METALALC MINERAL PRODUCT MFG	ANZSI		 1989–90	1992–93	06-6861	64	06-6861	1992–93	06-6861	1992–93	1989-90	1992–93		1992-93
Committee mile Committee mile Committee mile Committee mile Committee mile Committee mile Committee mile Committee mile mile Committee mile mile mile mile mile mile mile mi	261	NON-METALLIC MINERAL PRODUCT MFG— Glass and glass product mfg	21	ď.n		<u>d</u>	n.p.		n.p.	n.p.	<u>'</u>	d'u	.d.n	'd-'u
Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Convecte sharty ring. Non-loring intent product mig. ring. Non-loring intent product mig. ring. Non-loring intent product mig. ring. Non-loring intent	2621 2629 262	Ceramic mfg— Clay brick mfg Ceramic product mfg n.e.c Total (f)	n.p. 3	27 n.p. n.p.	n.p. n.p. n.p.	n.p. n.p. n.p.	n.p. n.p.	դ.ը. գ.ո. <i>գ.հ.</i>	n.p. n.p. n.p.	n.p. n.p. n.p.	n.p. n.p. n.p.	n.p. 0.77 n.p.	น.ก .ศ.ก .ศ.ก	n.p. 0.60
Non-terrotalite mineral product mig. np. 12 np. 13.4 23.7 86.7 106.4 24.9 23.4 np. 0.41 Total non-metalite mineral product mig. np.	2633 2635 263		6 u.p.	∞ ⊼ 6/	362.3 n.p. 206.2	347.2 n.p. 301.1	124.4 n.p. 93.1	99.4 n.p. 122.7	28.2 n.p. 24.3	27.5 n.p. 84.7	0.34 n.p.	0.29 n.p. 0.41	0.21 n.p. 0.26	0.27 n.p. 0.28
Total mon-metallic mineral product milg 19 19 178.4 232.7 86.7 1409.4 24.9 32.4 6.49 6.43 1.40	264	Non-metallic mineral product infg n.e.c.	n.p.	12	n.p.	0.501	n.p.	79.5	a.p.	28.1	n.p.	0.41	n.p.	0.35
National Product might National Product mi	92	Total non-metallic mineral product mfg	19	6/	178.4	232.7	86.7	100.4	24.9	32,4	0.19	0.43	0.28	0.31
Basic non-ferrous metal might n.p.	1/7	METAL PRODUCT MFG— Iron and steel mfg	ž.	n.p.	n.p.	u,p.	n.p.	'd'u	ä	n.p.	n.p.	11.p.	n.p.	u.p.
Non-ferrous basic metal graduet mig. S2 Rap.	272	Basic non-ferrous metal mfg	11.P.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	d'a
Structural netal product mfg	2733 273	Non-ferrous basic metal product mig. Non-ferrous metal casing Total (!)	52	n.p. n.p.	n.p.	n.p. a.p.	п.р. п.р.	п.р. п.р.	n.p. n.p.	п.р. Дл	n p.	n.p. n.p.	n.p. n.p.	n.p. n.p.
Sheet metal product mfg n.p. n.	2741 2742 274	Structural metal product mfg— Structural steel fabricating Architectural aluminium product mfg Total (t)	.q.n 9 13	12 n.p. 13	n.p. 110.0 98.2	110.5 n.p. 115.2	n.p. 31.8 41.3		n.p. 20.7 21.9	26.7 n.p. 25.8	n.p. 0.29 0.42	0.34 n.p. 0.36	n.p. 0.62 0.52	0.68 n.p. 0.60
Fabricated metal product migranding and finishing Abelia coating and finishing Table coating and finishing Fabricated metal product mign.c.c. Total (i) Total metal product mign.e.c. 2751 2759 275	Sheet metal product infg— Metal container infg Sheet metal product infg n.e.c. Total	.क. .क.	37 8 51	n.p. 1/5.8	n.p. n.p. 116.0	n.p. n.p. 47.1	n.p. n.p. 63.5	n.p. n.p. 20.0	н.р. в.р. 24.9	urb Oru TFO	n.p. n.p. 0.55	n.p. n.p. 0.40	n-p. n.p. 0.3%	
Total metal product mfg 34 31 193.1 201.9 76.0 58.9 33.0 36.8 0.39 0.29	2764 2769 276	Fabricated metal product infg- Metal coating and finishing Fabricated metal product infg n.c.c. Total (i)	7 mp. 10	≎¢ ఇం ⊘	55.8 n.p. 71.2	60.7 78.0 74.3	32.4 0.p. 29.2	36.7 38.2 39.3	20.0 n.p. 21.5	21.4 22.8 23.3	0.58 n.p. 0.41	0.49 0.53	0.54 n.p. 0.69	0.53 0.55 0.55
	27	Total metal product mfg	34	31	193.1	201.9	76.0	58.9	33.0	36.8	6.39	6.29	0.43	0.61

TABLE 4, MANUFACTURING ESTABLISHMENTS (a): SELECTED OPERATING RATIOS BY INDUSTRY CLASS, TASMANIA, 1989-90 AND 1992-93-continued

İ			:	,							Ratio of		:
Industr	Industry class	Per emplo establis	Persons employed per establishment (b) (No.)	Tur per 1 emplo) (\$'	Turnover per person employed (c)(d) (\$'000)	Value per p employ (\$Y	Value added per person employed (c)(d) (\$YO(!))	Wage salari employ	Wages and salaries per employee (d)(e) (\$5000)	Value to tw	Value added to turnover	Wages and salaries to value added	nd to to
ANZSIC	C Description	06-6861	1992-93	06-6861	1992 93	1989- 90	1992-93	1989-90 1992-93	1992-93	1989 90	1992-93	1 06-6861	1992-93
2812 281	MACHINERY AND EQUIPMENT MEG— Motor vehicle and part mfg. Motor vehicle body mfg. Total (f)	n.p.	L (3)	n.p. 79.3	83.1	n.p.	26.0 49.8	n.p.	22.0	n.p.	0.31 0.65	e d'en d	52
2822 282	Other transport equipment nafg— Boarbuilding Torat (f)	п.р. 23	7 82	п.р. п.р.	51.2 n.p.	n.p. n.p.	34.7 n.p.	л.р. <i>п.р.</i>	19.4 n.p.	n.p. n.p.	.d-u 89'n	n.p. n.p.	0,44 n.p.
2831 2832 2839 283	Photographic and scientific equipment mfg Photographic and optical good mfg Medical and surgical equipment mfg Professional and scientific equipment mfg n.e.c. Total	8. 1. p. 4.	\$ 6	53.1 n.p. n.p.	104.3 n.p. 73.3 n.p.	28.8 n.p. n.p.	48.6 n.p. 42.9 n.p.	21.0 n.p. n.p.	20.4 n.p. 27.6 n.p.	0.54 n.p. 0.50 n.p.	0.47 n.p. 0.59 n.p.	0.73 n.p. 0.54 n.p.	0.42 n.p. 0.37 n.p.
2841 2849 284	Electronic equipment mfg— Computer and business machine mfg Glectronic equipment mfg n.e.c. Total (f)	d d [®]	n.p. 9.	n.p. n.p. 70.1	п.р. п.р. а.р.	n.p. n.p. 37.4	п.р. п.р. п.р.	n.p. n.p. 19.7	п.р. п.р. и.р.	0.45 n.p. 0.53	n.p. 0.54 n.p.	0.30 n.p.	0.51 0.51 n.p.
2851 2854 285	Electrical equipment and appliance mfg. Household appliance mfg Electric light and sign mfg Total (t)	15 13 13	n.p. 8 15	71.3 n.p. 77.3	n.p. n.p. 83.3	38.1 n.p. 38.7	n.p. n.p. 36.5	18.9 n.p. 20.2	n.p. n.p. 21.8	0.53 n.p. 0.50	n.p. n.p. 0.44	0.49 n.p 0.50	n.p. n.p. 0.59
2861 2864 2865 2867 2867	Industrial machinery and equipment mfg— Agricultural machinery mfg Machine tool and part mfg Lifting and material landling equipment mfg Commercial space heating and cooling equipment mfg Total (!)	5 20 20 13	6 22 4 11	79.5 n.p. 102.7 	100.9 56.7 105.5 n.p.	39.5 n.p. 44.4 39.2	42.0 33.5 61.3 n.p.	18.0 n.p. 25.8 23.2	21.9 26.2 27.9 n.p.	0.50 n.p. 0.43 	0.42 0.59 0.58 0.60	0.41 n.p. 0.58 0.58	0.47 0.57 0.45 0.45 0.45
28	Total machinery and equipment mfg	16	16	93.2	96.5	56.5	44.3	26.8	25.7	0.61	0.46	0.46	0.56

TABLE 4. MANUFACTURING ESTABLISHMENTS (a): SELECTED OPERATING RATIOS BY INDUSTRY CLASS, TASMANIA, 1989-90 AND 1992-93-continued

Industry class ANZSIC code Descr	dace	Persons	SHOP	Turnount		I.C. Lee	Value addod	Hann	Han soon	:			
5		employed per establishment (b. (No.)	employed per stablishment (b) (No.)	per person per person (3'000)	over erson d (c)(d)	raine uaaca per person employed (c)(d) (\$400)	манса тяон d (c)(d) ЭО)	raks salari employy (87)	salaries per employee (d)(e) (\$100)	Value adder 10 nunover	Value added to nanover	Wages and salaries to value added	and s to tded
•	Description	06-6861	1992–93	1989-90 1992-93	1992–93	06-6861	1992–93	06-6861	1992-93	1989-90	1992–93	06-6861	1992 93
2911 2919 291	OFFIER MANUFACTURING— Prefabricated building mfg— Prefabricated notal building mfg— Prefabricated building mfg—c.c.	n.p. n.p.	9 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	n.p. n.p. 112.6	n.p. 64.7 a.p.	n.p. n.p. 46.6	n.p. 30.3 <i>n.p.</i>	n.p. n.p. 27.5	n.p. 17.4 n.p.	n.p. n.p. 0.41	n.p. 0.47 n.p.	n.p. n.p. 0.56	ուր. 0.55 «.թ.
2921 292	Furniture rufg Wooden furniture and upholstered seat mfg Total (f)	n.p. 73	<i>01</i> 01	n.p. 63.5	62.6 68.6	n.p. 32.2	30.6 31.4	n.p. 19,2	21.7	n.p. 0.51	0,49 0,46	n.p. 0.56	1970 1973
2942 2949 294	Miscellaneous manufacturing— Toy and sporting good rufg (g) Manufacturing n.e.c. (g) Total (f)	·	n.p.	} 47.4 47.3	n.p. 51.3 8.p.	23.4 23.3	n.p. 28.6 a.p.	} 17.2 17.2	n.p. 20.6 n.p.	9.49	n.р. 0.56 п.р.	9.68	n.p. 0.60 8.p.
59	Total other manufacturing	H	6	67.0	78.3	32.6	31.9	19.9	23.6	6.49	0.41	0.57	0.65
21-29	TOTAL MANUFACTURING	30	28	157.1	179.3	67.3	6.9.5	27.0	31.1	0.43	0.39	6.39	÷.

(a) See paragraph 8 of the Explanatory Notes. (b) Number of persons employment the end of June (including working proprietors) divided by the number of establishments in operation at 30 June. (c) Paine data are at current process and, therefore, do not discount the impact of price changes. (e) Based on average number of employees over the whole year. Excludes working proprietors and their drawings. (f) The total shown is that for all ANZSIC classes within this industry group. Data for wher ANZSIC classes within this industry group. Data for where ANZSIC classes. (g) Data for 1989-90 for ANZSIC classes 2942 and 2949 have been combined.

TABLE 5. MANUFACTURING ESTABLISHMENTS (a): PERCENTAGE CHANGE IN GROSS PRODUCT AT FACTOR COST (AVERAGE 1989-90 PRICES) (b)

BY INDUSTRY SUBDIVISION, TASMANIA, 1989-90 TO 1992-93

(%)

					n 06-6861	1989-90 to 1992-93
Industry ANZSIC code	Industry subdivision ANZSIC code Description	16-0661 06-6861	76-1661 16-0661	1991–92 1992–93	Percentage movement	Change in gross product per person employed (c)
22 5 5 5 5 5 5 6 5 6 5 6 5 6 6 6 6 6 6 6	Food, beverage and tobacco mfg Textile, clothing, footwear and leather mfg Wood and paper product mfg Printing, publishing and recorded media Petroleum, coal, chemical and associated product mfg Non-metallic mineral product mfg Metal product mfg Machinery and equipment mfg Other manufacturing	1.5 2.7 6.8 -1.7 5.0 7.8 2.9 1.4 -2.5.0	1.7 2.3 12.1 3.9 11.6 3.2 4.7 10.4	. 2.2 0.1 0.2 -7.5 2.4 14.6 - 6.2 21.8	-2.4 4.8 18.2 12.6 13.9 9.1 -1.1 -12.5 38.6	4 4 2 - 5 4 7 7 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7
21 29	21 29 Total manusacturing	7.1-	-2.1	4.6-	0.7-	10.6

(a) See paragraph 8 of the Explanatory Notes. (b) See paragraphs 17 to 19 of the Explanatory Notes. (c) Based on average empkyment over the whole year. Includes working proprietors.

TABLE 6. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY EMPLOYMENT SIZE AND INDUSTRY SUBDIVISION, TASMANIA, 1992-93

	Tree Minister Const.		Langlon	***************************************	H	, 1			17.0		2.10	Africa mountains?	Value added	Ratio	Ratio of (e)—
	at 30 June (b)	ments e (b)	at end of June (c)	une (c)	salari.	rages ana salaries (d)(e)	Tuno	Furnover (e)	ra adde	ranc added (e)	cxpend	expenditure (e)	employed	Entersochted	Wager and
Employment size group	(No.)	(%)	(No.)	(%)	(Sm)	(%)	(Snv)	(%)	(Sm)	8	(Sm)	(%)	(000.8)	to lumover	value added
					FOX	FOOD, BEVERAGE	RAGE AND	D TOBACCO	CO MFG			İ	:		
0–3 persons	12	10.2	27	0.5	90	4.0	5.7	0.5	2.3	0.5		. !	39.3	0.41	0,27
4–9 persons	43	36.4	273	4.7	5.0	3,4	53.3	4	1.4	3.2	1.0	<u>e.</u>	46.7	0.26	0.36
10 19 persons	12	10.2	n.p.	u b	n.p.	ď.n	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
20-49 persons	& :	15.3	n.p.	ď.	n.p.	n.p.	п.р.	п.р.	n.p.	n.p.	n.p.	n.p	n.p.	n.p.	n.p.
50-99 persons	18	15.3	1,274	21.9	31.5	21.6	529.9	21.4	108.0	24.5	3.4	4 4	88.4	0,42	0.29
Total less than 100 persons	103	87.3	R.P.	n.p.	n.p.	n.p.	u.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
100 199 persons	6	7.6	1.236	21.2	28.1	19.2	237.6	9.61	73.5	9.91	3.4	4 2	61.5	0.31	0.38
200-499 persons	47)	4 5	1,326	22.8	37.3	25.5	274.4	22.6	105.1	23.8	46.0	8.09	76.2	0.38	0.36
500-999 persons		8.0	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	u.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
1000 or more persons			·ļ	.	.	.	· į			
Total 100 or more persons	15	12.7	n.p.	п.р.	n.p.	п.р.	п.р.	n.p.	R.D.	n.p.	n.p.	n.p.	n.p.	н.р.	H_{μ}
Fotal	118	100.0	5,817	100.0	146.3	100.0	1,212.4	100.0	441.4	100.0	75.6	0.001	76.0	96.0	0.33
					TEXTILE, C	CLOTHING,		FOOTWEAR AND	LEATHER	R MFG	:				
0–3 persons	œ	24.2	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	da	l.p.	n.p.				: 'd'tt
4-9 persons	01	30.3	64	3.6	1.5	8. S.	7.7	4.5	3.1	3.7	.	1.9	45,3	0.40	0,47
10-19 persons	د	1.6	n.p.	n.p.	ď.	n.p.	т. С	л.р	n.p.	n.p.	n.p.	п.р.	n.p.	d'u	n.p.
20-49 persons	4	12.1	n.p.	n.p.	ď.	n.p.	n.p.	n.p.	n.p.	11.p.	n.p.	d'u	n.p.	n.p.	n.p.
50-99 persons	7 5	9.7	n.p.	n.p.	n.p.	n.p.	<u>ر</u> :	л.р. Т.р.	n.p.	п.р.	ďu	du.	n.p.	л.р. 3. с	n.p.
Total less than 100 persons	07	/ 6 .0	403	¥.2.4	9.6	21.3	F. 55.7	1.17	17.0	6767	6.5	13.3	41.3	17,44	6,25
100-199 persons		12.1	'n.	n.p.	n.p.	n.p.	ď.	n.p.	n.p	n.p.	n.p.	n.p.	.q.n	n.p.	d.n
200.:499 persons	€1	6.]	u.	n.p.	цп	n.p.	n.p.	n.p.	п.р.	n.p.	n.p.	п.р.	n.p.	n.p.	n.p.
500-999 persons														İ	
1000 or more persons					!		ļ	: 1							i
Total 100 or more persons	7	21.2	1,394	77.6	32.9	78.5	144.4	78.9	68.7	80.1	67	86.7	50,6	0,48	0.48
Total	33	100.0	1,797	100.0	41.9	100.0	182.9	100.0	85.7	100.0	2.2	100.0	48.6	0.47	0,49
		Ì	: :	:	!				:	:					

TABLE 6. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY EMPLOYMENT SIZE AND INDUSTRY SUBDIVISION, TASMANIA, 1992 93--cominmed

					!		: : : : : : : : : : : : : : : : : : : :				-	:			
	Fetablichmente	afassa	montantum	10-rat	Water	Wages and			150	Value	Nor	Net capital	Value added	Ratio c	Ratio of (v)
	at 30 June (b)	e (b)	at end of June (c)	men me (c)	salarie	salaries (d)(e)	Тино	Turnover (e)	ackde	added (c)	expend	expenditure (e)	employed control	7.77	Wages and
Employment size group	(No.)	%	(No.)	(%)	(Sn)	(%)	(wg)	(%)	(sm)	(%)	(Sm)	(%)	(000,S)	ғанке аааса 10 шемек	value added
			:		> 	WOOD AND PAPER	D PAPER	PRODUCT MFG	r MFG			:	! ! ! !		
0-3 persons	1 74	31 3	· <u>~</u>	2.7	4	. 80	5.6	9.0	2.9				24 K	() 52	0.48
4-9 persons	9	9	326	7.5	5.9	3.5	22.8	7.4	5	0.5	0.1	0.3	÷ €	10.51	0.52
10- 19 persons	<u>-20</u>	12.0	222	5.1	8.1	0.7	58.6	6.3	33.3	×	2.8	: 6	1393	0.57	0.24
20–49 persons	9	6.7	362	er. 80	9.8	5.1	46.8	5.0	6.71	7	0.1	. sc.	56.4	0.38	0.48
50-99 persons	9	4.0	528	13.1	36. 80.	11.2	<u> </u>	5.5	80.0	6.61	3.8	12.6	141.5	0.55	0.24
Total less than 100 persons	1+1	0.40	1,555	35.6	42.8	25.6	278.1	99.9	1.45.6	1.98	7.7	25.7	93.8	0.52	650
100-199 persons	r	4.7	n.p.	n.p.	n,p.	n.p.	п.р.	n.p.	n.p.	n.p.	d'u	n.p.	II,D.	JI.p.	0.0
200-499 persons		İ	. !			. ļ			,		-	-	• ¦		į
500 999 persons	-	0.7	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p,	'n,p	п.р.	n.p.	II.p.
1000 or more persons	_	0.7	. d.c	n.p.	ď	n.p.	G.E.	<u>1</u> 0-0	n. D.	n.p.	n.p.	n.p.	. ď.п	n.p.	- G'U
Total 100 or more persons	2⁄	0.0	2.815	64.4	124.7	74.4	652.1	70.1	257.2	63.9	22.3	74.3	88.5	05.0	87.0
Total	150	106.0	4,370	0.001	167.5	100.0	930.2	100.0	402.9	0.001	30.0	100.0	90.4	6,43	0.42
					PRINTIN	G, PURLE	SHING AN	RINTING, PURLISHING AND RECORDED MEDIA	EDED ME	VIC					!
0 3 persons	13	22.4	30	2.0	0.4	1.0	<u>×</u> :	4	0,1	[]		1.5	31.6	0.56	14.0
4 9 persons	20	34.5	128	8.5	1 .7	5.8	7.2	5.8	4.6	5.9	0.2	%. %	37.2	0,64	0.53
IO-19 persons	14	24.1	180	6	3.8	9.2	13.0	9.01	7.7	6.6	0.4	13.0	42.6	05.0	0.50
2049 persons	W)	8,6	n.p.	n.p.	d'a	n.p.	: h	<u>с</u> .п	n.p.	n.p.	n,p	11. p.	n.p.	'd'u	ď.u
50 99 persons	53	5.2	n.p.	ď.u	n.p.	n.p.	d u	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	d'ii
Total less than 100 persons	55	8.46	199	43.8	14.8	35.5	48.2	39.4	27.8	35.7	1.9	1'09	42.5	0.58	62.53
100-199 persons	;				!		i			!	İ	:	i	!	
200 499 persons	ν.	5.2	×4×	56.2	26.8	64.5	₹ **/.	97()()	50.0	Ţ	1.2	39.0	58.8	0.67	0.54
500-999 persons	Ī	ļ.		:	į		•	ļ			!	į	•		i
1000 or more persons	ļ	I			!	į		1	İ	:		i		!	
Total 100 or more persons	۳.	5,2	8:48	56.2	26.8	64.5	74.4	60.6	80.0	64.3	1.2	6.08	58.8	2970	0.54
Total	%	100.0	1,509	100.0	41.6	100.0	122.6	100.0	7.77	100.0	3.1	0.001	51.8	0,63	0.53
For footnotes see end of table.										!	 	: : !	:	:	

TABLE 6. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY EMPLOYMENT SIZE AND INDUSTRY SUBDIVISION, TASMANIA. 1992-93-continued

	Foundishmonts	3710016	Limitormond	nout.	Waa	Poor sond			2	Value	Nert	Net coming) dine daded	ranco of 1c)	915
	at 30 June (b)	(q) as	at end of June (c)	une (c)	salarie	rages una salaries (d)(e)	Turno	Turnover (e)	ada	added (e)	ехрена	expenditure (e)	pakophina	Pappa antaA	Wages and
Employment size group	(No.)	(%)	(No.)	(0,0)	(Sm)	(%)	(Sm)	(%)	(Sm)	(%)	(8m)	(%)	(0,000,5)	to turnover	value added
				PETROL	EUM, CO,	AL, CHEN	PETROLEUM, COAL, CHEMICAL AND ASSOCIATED PRODUCT	D ASSOC	чатер Р		MFG		:		:
03 persons		31.7	: d'I	 	a:	[] o.	i i	i did		. : : : : : : : : : : : : : : : : : : :	a	d.n	n.p.	n.p.	1.1
4-9 persons	5	22.0	-3	- N - N	, .	6.3	12.7	5.0	6,4	7.3	0.3	- 27	100,6	0.50	0.29
10- 19 persons	∞	19.5	л.р.	ď.	n.p.	n.p	n.p	ďď	ď	ď.n	n.p.	d:0	n.p.	п. р.	<u>-</u> u
20-49 persons	∞	19.5	ii.p	n. G	n.p.	u.	л. П.П.	n.p.	d U	n.p.	n.p.	n.p.	n.p.	r.p.	Ē
50-99 persons	2	4.9	n.p.	n.p.	n.p	η.p.	n.p.	n.p.	<u>d</u> .	n.p.	n.p.	d'u	d'u	id:	ā
Total less than 100 persons	40	97.6	п.р.	n, p.	п.р.	n.p.	H.D.	11.p.	$u_{i}p_{i}$	n.p.	a.p.	11.17.	n.p.	do	H.P.
100-199 persons		2.4	n.p.	q.c	n.p.	n.p.	n.p.	n.p.	п. П.	ďu	n.p.	ď L	п.р.	.q.n	<u>.</u>
200-499 persons		į		-		-	į	İ		İ			:		
500-999 persons		I		I	1	I	-	:			-	:	1		1
1000 or more persons				٠						i				1	1
Total 100 or more persons		2.4	n.p.	'd'11	u.p.	u.p.	h.p.	a.p.	п. јз.	n.p.	n.p.	н.р.	4.19.	a.p.	n.p.
Total	4	100.0	X 22	100.0	28.9	0.001	214.3	100.0	86.5	100.0	24.0	100.0	103.7	0.40	0.33
		: 			NON	NON-METALLIC		MINERAL PRODUCT	OCT MFG	 		:			
0–3 persons 4–9 persons	17	39.5	-d-u -20	n.p. 6.9	n.p.	n.p. 5.3	11.p. 9.8	n.p. 5.2	n.p.	n.p. 4.5	n.p. 0.9	1.p.	n.p. 64.4	n.p. 0.38	n.p. 0.37
10 19 persons	6	20.9	n.p.	n.p.	n.p.	n.p.	તા	n.p.	n.p.	n.p.	.d.n	n.p.	ď.n	.d.n	ü
20-49 persons	9	14.0	061	23.4	5.7	22.5	45.4	24.0	22.0	27.0	<u>1.4</u>	6.1	1.4.1	0.49	भू क
50-99 persons	-	2.3	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	.d.n	.d D	
Total less than 100 persons	11	95.3	a.p.	n.p.	n.p.	n.p.	n.p.	п.р.	н.р.	n.p.	n.p.	п.р.	n.p.	11.19.	H.P.
100-199 persons	2	4.7	п.р.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	d n	n.p.	d'il
200-499 persons	1				l			I				ļ			
500-999 persons				1		i	-	1	!	i		Ì			
1000 or more persons		i						İ		:					
Total 100 or more persons	ć 7	4.7	n.p.	n.p.	u.p.	n.p.	n.p.	n.p.	$\pi.p.$	п.р.	n.p.	n.p.	n.p.	n.p.	d'u
Total	£	100.0	813	100.0	25.4	0.001	188.7	1001	36 4.1	100.0	76.1	100.0	100.4	0.43	E.9

TABLE 6. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY EMPLOYMENT SIZE AND INDUSTRY SUBDIVISION, TASMANIA, 1992-93—continued

	Dodoblishmanta		Frankonaroar	1	:	Hans and		!	: 2		Niat o	Marcanital	Falue added	Ratio of (e)	
	at 30 June (b)	ne (b)	at end of June (c)	nerns Inne (c)	-	rages and salaries (d)(e)	Turne	Turnover (e)	adet	added (v)	puədsə	expenditure (c)	pasiophia pasiophia	Value added	Wages and
Employment size group	(No.)	(%)	(No.)	(%)	(\$111)	(%)	(Snt)	(%)	(Sm)	(%)	(Sm)	(%)	(000,5)	to turnover	value added
				: :		MET	AL PROD	METAL PRODUCT MFG							
0-3 persons	32	24.6		- 8 0.	7.	8.0	6.7	. 0.8	2.8	1.2	0.5	0.7	36.1	0.41	0.42
4–9 persons	49	37.7	288	Ŀ. Ci	6.2	4.2	30.0	3.7	12.5	5.2	0.7	1.7	43.2	0.42	05.0
10 19 persons	26	20.0	355	6.8	8,2	5.6	38.5	4.7	13.5	5.6	Þ.O.	1.0	39.9	0.35	1911
2049 persons	15	11.5	379	9.5	6,4	6.4	42.6	5.2	20.8	8.7	0.3	0.7	48.9	61.49	54.0
50-99 persons	S	3.8	344	8.6	8.6	6.7	42.4	5.2	18.2	7.6	=	2.4	48.8	6.4.3	750
Total less than 100 persons	126	6'96	1.436	35.9	34.7	23.6	160.2	19.5	67.8	28.3	3.0	6.8	46.6	0.40	0.51
100-199 persons	1	1	:					-		i					:
200-499 persons	7	Y	2	2	5	£	=	<u>_</u>	ני	2	0 0	5	5		5 0
500–999 persons	· —	. o	i di	- d	i d'il	i d	i d	i d	d:n			. d	: d	11.D.	d d
1000 or more nersons	_	8	- 6	- d-1	. d	d d	. 6	. d	d d	- d	- G	. 6.6	. d	, die	. 0.0
Total 100 or more persons	- 73	3.1	2,566	64.1	112.4	76.4	1.199	80.5	171.9	71.7	41.1	2756	63.9	0.26	0.65
Total	130	100.0	4,002	100.0	147.1	100.0	821.4	100.0	239.7	100.0	44.1	100.0	965	0.29	0.61
					Σ	MACHINERY		AND EQUIPMENT MFG	T MFG		:				
0 3 persons	47	39,2	 <u>8</u> 	5.3	2.0	4	6'9	3.9	4. 8.	5.5		: ×:	42.0	0.65	0.45
4-9 persons	42	35.0	250	13.3	4.9	10.7	18.2	10.2	10.4	12.8	0.5	29.7	41.8	0.58	0.47
10 i9 persons	18	15.0	256	13.6	6.5	14.2	22.7	12.3	11.6	14.2	0.5	30.3	45.0	0.51	0.56
20-49 persons	đ.	7.5	310	16.5	7.1	15.4	31.2	17.5	16.5	20.1	0.4	22.3	55.7	0.53	0.43
50-99 persons	2	1.7	u.p.	n.p.	n.p.	п.р.	n.p.	n.p.	n.p.	п.р.	n.p.	л. С	u.p.	n.p.	n.p.
Total less than 100 persons	118	98.3	n.p.	n.p.	п.р.	n.p.	н.р.	н.р.	n.p.	n.p.	n.p.	n.p.	и.р.	п.р.	п.р.
100 199 persons	İ	!	İ				İ								:
200499 persons	2	1.7	n.p.	n.p.	n,p	n.p.	n.p.	n.p.	11. p.	ű.p.	n.p.	л.р.	n.p.	n.p.	n.p.
500-999 persons					•							!	:		
1000 or more persons		I	l	ļ				i		:		!	l	1	1
Total 100 or more persons	7	1.7	n.p.	n.p.	п.р.	n.p.	n.p.	n.p.	н.р.	n.p.	п.р.	n.p.	a.p.	и.р.	n.p.
Total	120	100.0	1,876	0.001	45.9	100.0	178.5	100.0	81.9	100.0	1.6	106.0	44.3	0.46	0.56
For footnotes see end of table.	! 														

TABLE 6. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY EMPLOYMENT SIZE AND INDUSTRY SUBDIVISION, TASMANIA, 1992-93—continued

	Fetablichmonte	o no no no no no no no no no no no no no	Fundomotas	2000	Water	Wages and			24	dro	Net C	Net conital	Value added	Ratio of (e)-	· (e)
	at 30 June (b)	ne (b)	at end of June (c)	mene (c)	salarie	salaries (d)(e)	Turno	Turnover (e)	udde	(a) pappa	expend	expenditure (e)	parojdina parojdina	Volum orbited	Wages and
Employment size group	(No.)	(%)	(Na.)	(%)	(sm)	(%)	(8m)	(%)	(Sm)	(%)	(Sm)	(%)	(0,000,5)	to turnover	value added
				:		ОТНЕ	OTHER MANUFACTURING	ACTURIN	G		i		 		
0-3 persons	33	41.8	. Z	9.4	6.0	6.5	3.7	6.9		7.9	0.1	11.6	25.7	0.47	0.53
4–9 persons	25	31.6	162	23.7	2.7	19.2	12.6	23.8	5.3	24.4	0.3	47.7	33.1	0.42	0.51
10-19 persons	01	12.7	130	0.61	2.6	18.5	∞	15.8	4.2	9.61	0.1	10.0	35.2	0.51	0.62
2049 persons	=	13.9	n.p.	n,p	n.p	n.p	n.p.	<u>c</u> .c	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
50-99 persons	_	1.3	u.p.	, מ <u>ל</u>	n.p	. d.	- d-	n.p	n. G	ı dı	п.р.	י ק.נו	n.p.	n.p.	n.p.
Total less than 100 persons	79	100.0	683	100'0	14.1	100.0	53.0	100.0	21.6	100.0	0.6	100.0	31.9	0.41	0.65
100-199 persons					ļ	!	:	l		ł		j		į	
200-499 persons	}									l	ì		1		ļ
500-999 persons	:					!			•				:		
1000 or more persons		1				1	ļ	1	1	1	1	j	:		:
Total 100 or more persons	!		1	1		1		;			ļ				
Total	79	100.0	683	1001	<u>4</u>	100.0	53.0	100.0	21.6	100.0	9.0	100.0	31.9	0.41	0.65
						TOTA	TOTAL MANUFACTURING	ACTURIN	(T)						
0-3 persons	220	28.5	477	2.2	1.88	1.2	42.7	=	18.0	12	 	0.4	33.8	0.42	0.45
4-9 persons	266	34.5	1,610	7.4	31.8	8.4	174.1	4.5	71.5	4.7	4,0	9:1	4	17:0	0.45
10 19 persons	117	15.2	1,609	4,7	40.3	6.1	247.5	6.3	1.07.1	. 7.1	6.9	2.7	67.1	0.43	0.38
20-49 persons	9% 86	1.1	2,632	12.1	62.6	5.6	448.7	11.5	175.7	11.6	27.8	10.8	68.4	0.39	0.36
50-99 persons	40	5.2	2,971	13.7	85.8	13.0	556.2	14.2	262.7	17.3	<u>v: </u>	4.5	87.8	0.47	0.33
Total less than 100 persons	729	94.4	0,299	42.9	228.7	34.7	1,469.3	37.6	635.0	41.8	51.3	20.0	68.3	0.43	0,36
100-199 persons	23	3.0	3,260	15.0	90.5	13.7	616.4	15.8	218.7	4.4	81.3	31.6	69.4	0.35	0.41
200-499 persons	15	6.1	n.p.	n.p.	n.p.	J.p.	n.p	ď.	П.р.	n.p.	n,p	11.p	n.p.	n.p.	n.p.
500-999 persons	æ	0,4	n.p.	n, p	.d.n	п.р.	n.p.	n.p.	п.р.	n.p.	d'ii	11.F	n.p.	ď.п	d:u
1000 or more persons	2	0.3	n.p.	п.	n.p.	d'u	ďi	u.p.	ď.u	n.p.	ďď	ŋ.p	n.p.	n.p.	n.p.
Total 100 or more persons	43	5.6	12,388	1728	430.0	65.3	2,434.6	47.4	883.9	58.2	205.8	80.0	70.9	0.36	650
Total	772	100.0	21,687	0.001	658.7	100.0	3,903.9	100.0	1,518.9	100.0	2.7.2	1001	8.69	0.39	0,43
			!	:		:									

(a) See paragraphs 8.16 and 20 of the Explanatory Notes. (b) See paragraphs 5 to 11 of the Explanatory Notes. (c) Includes working proprietors. (d) Excludes the drawings of working proprietors. (e) Figures manufacturing establishments which operated during 1992–93 but were not operating at 30 June 1993. See paragraph 20 of the Explanatory Notes. (f) Based on average employment over the whole year.

TABLE 7. MANUFACTURING ESTABLISHMENTS (a): EXPENDITURE ON ENVIRONMENTAL PROTECTION (b) BY INDUSTRY CLASS. TASMANIA, 1992–93

			penditure on tul protection		l expenditure to te pollution
Industr <u>.</u> ANZSI0	y class		Proportion of total turnover		Proportion of total capital expenditure
code	Description	(\$'000)	(%)	(\$'000)	(%)
211	FOOD, BEVERAGE AND TOBACCO MFG— Meat and meat product mfg	587	0.3	n.p.	n.p.
	Dairy product mfg—				
2129 212	Dairy product mfg n.e.c. Total (c)	76 158	0.1 <i>0.1</i>	_	_
213	Fruit and vegetable processing	n.p.	n.p.	n.p.	n.p.
214	Oil and fat mfg		_	_	
215	Flour mill and cereal food mfg	n.p.	n.p.	n.p.	п.р.
216	Bakery product mfg	17	_	_	_
	Other food mtg -	250	0.0		
21 <i>73</i> 217	Seafood processing Total (c)	259 426	0.2 0.1	n.p. 523	n.p. 2.3
218	Beverage and malt mfg	89	0.1	_	
219	Tobacco product mfg	_	_	_	
21	Total food, beverage and tobacco mfg	2,597	0.2	n.p.	n.p.
	TEXTILE, CLOTHING, FOOTWEAR AND LEATHER MFG-				
221	Textile fibre, yarn and woven fabric mfg	49	0.1	_	_
2221	Textile product mfg— Made-up textile product mfg	40	ուր.	_	
2221	Total (c)	n.p.	n.p.	_	_
223	Knitting mills	n.p.	n.p.	_	
224	Clothing mfg		_	_	
225	Footwear mfg	n.p.	n.p.	_	
226	Leather and leather product mfg		_	_	
2 2	Total textile, clothing, footwear and leather mfg	120	0.1	-	
	WOOD AND PAPER PRODUCT MFG—				
2311	Log sawmilling and timber dressing— Log sawmilling	190	0.2	n.p.	п.р
231	Total (c)	69 <i>1</i>	0.2	66 7	4.9
2323	Other wood product mfg— Wooden structural component mfg	15	0.1	n.p.	n.p
2323	Total (c)	n.p.	n.p.	n.p.	n.p.
233	Paper and paper product mfg	n.p.	п.р.	n.p.	n.p
23	Total wood and paper product mfg	4,175	0.4	2,316	7.6

TABLE 7. MANUFACTURING ESTABLISHMENTS (a): EXPENDITURE ON ENVIRONMENTAL PROTECTION (b) BY INDUSTRY CLASS, TASMANIA, 1992–93—continued

la decesta	ry class		xpenditure on ntal protection		l expenditure to tte pollution
	C	ictoon.	Proportion of total turnover		Proportion of total capital expenditure
code	Description	(\$'000)	(%)	(\$'000) 	(%)
2412 241	PRINTING, PUBLISHING AND RECORDED MEDIA— Printing and services to printing— Printing Total (c)	3 3			=
242	Publishing	39		_	_
243	Recorded media manufacturing and publishing	_		_	
24	Total printing, publishing and recorded media	42	_	_	_
251	PETROLEUM, COAL, CHEMICAL AND ASSOCIATED PRODUCT MFG Petroleum refining		_	_	April N
252	Petroleum and coal product mfg n.e.c.	_	_	_	-
253	Basic chemical mfg	8,047	6.1	n.p.	n.p.
254	Other chemical product mfg	n.p.	n.p.	n.p.	n.p.
255	Rubber product mfg	n.p.	n.p.	_	_
256	Plastic product mfg	23	0.1	_	_
25	Total petroleum, coal, chemical and associated product mfg	8,268	3.9	760	3.1
261	NON-METALLIC MINERAL PRODUCT MFG—Glass and glass product mfg	n.p.	ń.p.	-	_
262	Ceramic mfg	п.р.	п.р.	_	_
2633 263	Cement, lime, plaster and concrete product mfg— Concrete slurry mfg Total (c)	15 n.p.	n.p.	n.p. 4,187	n.p. 6.0
264	Non-metallic mineral product mfg n.e.c.	n.p.	n.p.	_	_
26	Total non-metallic mineral product mfg	55	_	4,187	5.5
271	METAL PRODUCT MFG— Iron and steel mfg	n.p.	n.p.	n.p.	ը. թ.
272	Basic non-fetrous metal mfg	n.p.	n.p.	n.p.	n.p.
273	Non-ferrous basic metal product mfg	_	_	_	_
274	Structural metal product mfg	72	0.1	_	_
275	Sheet metal product mfg	33	0.1	_	_
276	Fabricated metal product mfg	15	_	n.p.	n.p.
27	Total metal product mfg	3,055	0.4	22,013	49.3

TABLE 7. MANUFACTURING ESTABLISHMENTS (a): EXPENDITURE ON ENVIRONMENTAL PROTECTION (b) BY INDUSTRY CLASS, TASMANIA, 1992-93—continued

			spenditure on ital protection		l expenditure 10 ite pollution
industi ANZSI code	y class C Description	/\$'000)	Proportion of total turnover (%)	(\$'000)	Proportion of total capital expenditure (%)
	·	(3 1000)	1709	(\$000)	(>#
281	MACHINERY AND EQUIPMENT MFG— Motor vehicle and part mfg	n.p.	n.p.	_	_
282	Other transport equipment mfg	_	_		_
283	Photographic and scientific equipment mfg	14	n.p.	_	_
284	Electronic equipment mfg	n.p.	n.p.		_
285	Electrical equipment and appliance mfg	49	0.3	_	_
286	Industrial machinery and equipment mfg	17	_	-	_
28	Total machinery and equipment mfg	99	0.1	_	_
2 91	OTHER MANUFACTURING— Prefabricated building mfg	л.р.	n.p.	_	· —
2921	Furniture mfg—. Wooden furniture and upholstered seat mfg	20	0.1	_	_
292	Total (c)	n.p.	n.p.	n.p.	n.p.
294	Miscellaneous manufacturing	n.p.	n.p.	<u> </u>	_
29	Total other manufacturing	24	_	n.p.	n.p.
21-29	TOTAL MANUFACTURING	18,435	0.5	30,199	11.0

⁽a) See paragraph 8 of the Explanatory Notes. (b) See paragraph 21 of the Explanatory Notes. Establishments which did not respond to the questions are treated as having nil expenditure. (c) The total shown is that for all ANZSIC classes within this industry group. Data for other ANZSIC classes within the industry group are either not available for publication (due to confidentiality restrictions) or there are no units classified to those ANZSIC classes.

TABLE 8. MANUFACTURING ESTABLISHMENTS (a): EXPORTS OF GOODS PRODUCED BY BROAD EMPLOYMENT SIZE (b) BY INDUSTRY SUBDIVISION TASMANIA, 1992–93 (c)

					Епрюте	Employment size group			
		0-46 p	0-49 persons	\$0-99	50–99 persons	но от тоге регот	suos.ad.	Total	
Industr	Industry subdivision	Amount exported by this	Exports as a proportion of	Amount exported by this	Exports as a proportion of	Amount exported by this	Exports as a proportion of	Amount exported by this	Exports as a proportion of
ANZSIC	ANZSIC code Description	or its agen! (5m)	saies of goods produced (%)	or its agent (Sn)	sates of goods produced (%)	or its agent Sm)	sates of goods produced (%)	nasmess or its agent (Sm)	sales of goods produced (%)
21	Food, beverage and tobacco mfg	n.p.	rd-u	n.p.	n.p.	94.8	14.5	n.p.	:
22	Textile, clothing, footwear and leather mfg	n.p.	d'u	n.p.	n.p.	13.5	9.6	13.9	
23	Wood and paper product mfg	n.p.	n.p.	п.р.	n.p.	83.4	13.0	218.6	24.0
77	Printing, publishing and recorded media	n.p.	.d.u	.d.n	n.p.		-	n.p.	
25	Petroleum, coal, chemical and associated product mfg	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	35.3	17.8
76	Non-metallic mineral product mfg	n.p.	n.p.		J	:		ďu	n.p.
27	Metal product m/g	n.p.	п.р.		1	n.p.	u.p.	417,3	823
28	Machinery and equipment rnfg	n.p.	n.p.	urb.	n.p.	ر ج 11	u.p.	46.4	30.5
50	Other manufacturing	0.3	0.7	!			.	0.3	9.0
21-29	21-29 Total manufacturing	113.1	13,4	цъ	n.p.	цп	n.p.	942.4	25.6

(a) See paragraph 8 of the Explanatory Notes. (b) See paragraphs 20 and 22 of the Explanatory Notes. (c) This table excludes those manufacturing establishments which operated during 1992 93 but were not operating at 30 June 1993

TABLE 9, MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS (IN PERCENTAGE TERMS) BY PROPORTION OF EXPORTS (b) BY INDUSTRY SUBDIVISION TASMANIA, 1992-93

dustry. VZSIC de				vents that export		Establish includ	ments with exports ling 50 % of sales of that they produced	Establishments with exports up to and including 50 % of sales of goods that they produced	<i>-</i>	Establis Pla	establishmens with expants of more than 50 % of sales of goods that they produced	es of goods aduced	ti .
ANZSIC code Description	7	Employment at end of	Wages and		Kofue	Employment at end of tune	Wages and		Value	Employment at end of June	Wages and salaries		Value
		38 8	£%	Turnover (%)	addled (%)	(%)	(9%)	Turnover (%)	added (%)	(C) (%)	(%) (p)	Turnover (%)	added (%)
2 Food, beverage and tobacco MIR	 	u.p.	n.p.		n.p	n.p.	n.p.	n.p.	п.р	n.p.	'n.p	n.p.	n.p.
	ather mfg	52.0	51.4	26.8	50.9	48.0	48.6	43,2	49.1			!	
	9	56.4	41.5	46.2	40.8	36.3	48.2	32.5	37.6	7.3	10.3	21.3	21.6
	media	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	u-b.	n.p.	!			
	sociated												
product mfg		0.09	46.4	58.2	60.2	n.p.	п.р.	ıı.p.	n.p.	n.p.	d d	n.p.	ďи
26 Non-metallic mineral product infa	cí	ď:u	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	:			1 ;
27 Metal product mfg	ı	56.2	45.7	36.5	¥.0.	2.3	1.4	6.0	1.2	41.5	82.9	62.6	58.0
		72.9	72.6	63.5	83.9	n.p.	п.р.	o.p.	n.p.	n.p.	n.p.	n.p.	n.p.
		6'96	0.86	98.3	47.6	η.ρ.	n.p.	n.p.	n.p.	n.p.	n.p.	d'u	<u>d</u> =
21:29 Total manufacturing		62.4	54.7	52.0	53.9	22.5	26.2	22.4	26.1	15.1	1.61	25.6	20.0

(a) See paragraph 8 of the Explanatory Notes. (b) See paragraph 22 of the Explanatory Notes. (c) Includes working proprietors. (d) Excludes the drawings of working proprietors.

TABLE 10, MANUFACTURING ESTABLISHMENTS (4): RELATIVE STANDARD ERRORS (b) FOR SELECTED DATA ITEMS BY INDUSTRY SUBDIVISION TASMANIA, 1992-93

Pages Value Own account Arcquisition and Turnover Purchases 4dded Copital vork plant, machin 6.8 0.8 0.8 0.8 added capital vork and equipm 0.6 0.3 0.3 0.4 1.9 1.9 1.9 1.8 1.9 2.1 1.8 — 1.9 1.9 0.1 0.4 0.4 0.5 — 0.1 — 1.9 1.9 1.4 1.5 1.4 2.1 1.4 2.9 4.4 2.1 1.4 2.1 1.4 2.9 0.3 0.3 0.3 0.5 0.1 1.4 2.9 4.4 2.1 1.4 2.1 1.4 2.9 0.5 0.1 1.4 2.1 1.4 2.9 0.3 0.5 0.3 0.5 0.1 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Industry subdivision	-						
Food, beverage and tobacco mfg 1.1 6.8 0.8 0.8 0.8	ANZSIC code Description	Laptoyrient at end of June (c)	Hages and salaries (d)	Turnover	Purchases	Value added	Own account capital work	Acquestion of plant, machinery and equipment
Textile, clothing, footwear and leather mfg (e)	21 Food, beverage and tobacco mfg	=	0.8	0.8	0.8	8.0	i i	0.2
Wood and paper product mfg 0.9 0.6 0.3 0.3 0.4 1.9 Printing, publishing and recorded media 2.3 1.8 1.9 2.1 1.8 Petroleum, coal, chemical and associated product mfg 1.2 0.7 0.4 0.4 0.5 Non-metallic mineral product mfg 0.7 0.5 0.1 Metal product mfg 1.5 1.4 1.5 1.4 1.5 1.4 Machinery and equipment mfg 5.4 4.2 3.1 2.9 4.4 Other manufacturing 6.5 6.3 6.3 6.3 6.3 6.3 6.5 29 Total manufacturing 6.5 6.3 6.3 6.3 6.3 6.3 6.5	•		1		٠	!		:
Printing, publishing and recorded media 2.3 1.8 1.9 2.1 1.8 1.8 1.8 1.8	23 Wood and paper product mfg	6.0	9'0	0.3	0.3	4.0	61	2.8
Petroleum, coal, chemical and associated product mfg 1.2 0.7 0.4 0.5 — 0.5 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.2 0.3 0.3 0.5 0.1 —	24 Printing, publishing and recorded media	2.3	8.T	6.1	7.7	8:T	1	13.3
Non-metallic mineral product mfg 0.2 0.1 — 0.1 — Metal product mfg 0.7 0.5 0.3 0.3 0.5 0.1 Machinery and equipment mfg 1.5 1.4 1.5 1.4 2.1 Other manufacturing 5.4 4.2 3.1 2.9 4.4 — 29 Total manufacturing 0.3 0.3 0.3 0.3 0.3 0.5		act mfg 1.2	0.7	0.4	† .0	0.5		0.2
Metal product mfg 0.7 0.5 0.3 0.3 0.5 0.1 Machinery and equipment mfg 1.5 1.4 1.5 1.4 1.5 1.4 2.1 Other manufacturing 5.4 4.2 3.1 2.9 4.4 — 29 Total manufacturing 0.3 0.3 0.3 0.3 0.3 0.5		0.2	0.1	-		0.1	1	1
Machinery and equipment rife 1.5 1.4 1.5 1.4 2.1 Other manufacturing 5.4 4.2 3.1 2.9 4.4 — 29 Total manufacturing 0.3 0.3 0.3 0.3 0.3 0.5		0.7	0.5	0.3	6.3	0.5	0.1	† ′0
5.4 4.2 3.1 2.9 4.4 — 0.5 0.3 0.3 0.3 0.3 0.3 0.5		1.5 7.1	4.1	<u></u>	\$	1,4	2.1	3.2
0.5 0.3 0.3 0.3 0.5		5,4	4.2	3.1	2.9	4.4	1	6.8
	21-29 Total manufacturing	0.5	6.3	0.3	0.3	0.3	0.5	0.3

(a) See paragraph 8 of the Explanatory Notes. (b) See paragraphs 12 to 14 of the Explanatory Notes. (c) Includes working proprietors. (d) Excludes the drawings of working proprietors. (e) All establishments classified to this industry were included in the 1992-93 manufacturing collection.

TABLE 11, MANUFACTURING ESTABLISHMENTS (a): SELECTED OPERATIONAL STATISTICS BY INDUSTRY CLASS, TASMANIA, 1989-90 TO 1991-92 (b)

			: : : : : : : : : : : : : : : : : : : :				:	
Indust	: 		Employment at end of June (c)	re (c)		Turnover (d) (Sn!)		Value added (c) (Sn)
ANZSIC	TC Dexcription	06-6861	16-061	1991–92	06 6861	16-0661	76-1661	06-6861
2111 2113 2113	FOOD, BEVERAGE AND TOBACCO MFG— Meat and meat product mfg Meat processing Bacon, harn and smallgood mfg Total (f)	0.8 0.p. 1.7	n.p. 0.1	u.p. 0.2 1.1	162.8 10.p. 207.2	n.p. 21.6 188.2	n.p. 25.1 184.1	50.2 n.p. 67.1
2121 2129 212	Dairy product mfg— Milk and cream processing Dairy product mfg n.c.c. Total (f)	H.N. 0.5 0.5 0.7	n.p. 0.5 0.8	0.1 0.6 1.0	n.p. 135.6 189.0	n.p. 139.2 204.3	n.p. 156.0 223.3	n.p. 89.6 106.7
213	Fruit and vegetable processing	n.p.	n.p.	n.p.	ւդ.ր.	u.p.	d'u	n.p.
214	Oil and fal mfg	u.p.	n.p.	n.p.	n.p.	n p.	n.p.	n.p.
215	Flour mill and cereal food mfg	n.p.	T.0	0.1	n.p.	41.9	35.9	'd'u
2161 2162 216 216	Bakery product mfg.— Bread mfg Cake and pastry mfg Foral (i)	0.5 0.3 0.8	0.4 0.3 0.7	0.4 л.р. 0.6	38.0 14.8 52.7	31.8 14.7 46.5	27.4 n.p. 42.4	22.2 7.0 29.2
2172 2173 2174 2179 2179	Other food infg— Confectionery mfg Scafood processing Prepared animal and bird feed mfg Food mfg n.c.c.	np.	0.7 0.8 0.0 0.0 0.0	0.9 0.7 0.7 0.7 7.7	n.p. n.p. 24.6 0.7 .456.4	n.p. 131.6 0.p. 358.0	n.p. 133.5 n.p. 343.9	n.p. n.p. 4.5 0.3
2181 2183 218	Beverage and matt onfg Soft drink, cordial and syrup onfg Wine onfg Total (f)	n.p.	0,1 n.p.	0.1 n.p.	0.p. 0.0 00.8	38.3 n.p. a.p.	4.0 4.0 4.0	n.p. n.p. 44. f
219	Tobacco product mfg	;	;	5		- 4736 1		* 0 CC
21	Total food, beverage and tobacco mfg	6.5	9.1	## ## ## ## ## ## ## ## ## ## ## ## ##	1,112.3	1,10/.0	7,7,3,0	C-0/+
Fist for	For footnotes see end of table,							

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TABLE 11. MANUFACTURING ESTABLISHMENTS (a); SELECTED OPERATIONAL STATISTICS BY INDUSTRY CLASS, TASMANIA, 1989-90 TO 1991-92 (b)--continued

Industr	Industry class	Empte	Employment at end of June (c)	e (c)		Turnover (d)		Value added (e)
ANZSIC	C Description	1989-90	(000.)	1991–92	06-6861	16-0661	1991. 92	196-6861
2213 2214 221	TEXTILE, CLOTHING, FOOTWEAR AND LEATHER MFG— Textile fibre, yam and woven fabric mfg— Cotton textile mfg Wool textile mfg Total (f)	n.p. 0.6	0.4 n.p.	0.4 0.9	n.p. n.p. 134.1	n.p. n.p. 82.7	n.p	и.р. 22.2
2221 2222 222	Textile product mfg Made-up textile product mfg Textile floor covering mfg Total (f)	0.1 r.p.	n.p. n.p. 0.6	n.p. 0.2 0.5	3.4 n.p. n.p.	ቤት. የ ነው 69. <i>የ</i>	0.p. 15.4 58.5	t.4 .q.n
223	Knitting mills	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
224	Clothing unfg	I	0.1	п.р.	<u></u>	u.p.	ñ.p.	9.0
225	Fuxtwear mfg	0.2	n,p,	6.3	л - р.	n.p.	.d·u	л.р.
226	Leather and leather product mfg	I	n.p.	n.p.	n.p.	n.p.	n.p.	u.p.
77	Total rextile, clothing, footwear and leather mfg	1.9	1.8	1.8	181.4	182.2	177.3	95.0
2311 2312 2313 231	WOOD AND PAPER PRODUCT MFG Log sawmilling and timber dressing— Log sawmilling Wood chipping Timber resawing and dressing Total	1.2 0.7 0.5 2.4	0.8 0.5 0.7 2.0	0.8 0.4 0.5 1.7	106.9 n.p. n.p. 417.0	78.7 n.p. 0.p.	77.7 n.p. .q.n .\$7.5	60.5 0.p. 11.p.
2323 2329 232	Other wood product mfg— Wooden structural component mfg Wood product mfg n.c.c. Total (f)	0.3 0.1 0.7	0.3 0.1 n.p.	0.3 0.1 n.p.	25.6 6.6 n.p.	24.0 6.9 n.p.	23.7 7.8 n.p.	11.9 3.0 8.p.
2331 233	Paper and paper product infg. Pulp, paper and paperboard nifg. Total (!)	n.p. 3.0	2.7 n.p.	.d-u	п.р. п.р.	ո.p. <i>դ.</i> p.	n.p. n.p.	eta eta
23	Total wood and paper product mfg	1'9	5,5	5.00	1,123.6	1,111.2	965.6	421.2

TABLE 11. MANUFACTURING ESTABLISHMENTS (a): SELECTED OPERATIONAL STATISTICS BY INDUSTRY CLASS, TASMANIA, 1989 90 TO 1991-92 (b)-continued

Indusp	Industry class	Emple	Employment at end of June (c) ('000)	te (c)		Turnover (d) (Sm)		Falue added (v) (Sm)
ANZSIC Code	IC Description	1986-00	16 0061	1991-92	1989-90	16:-0661	1991–92	06 6861
2412	PRINTING, PUBLISHING AND RECORDED MEDIA— Printing and services to printing— Printing Total (I)	0.5	0.5	0.5 0.6	32.9 49.9	3.2.3 3.4.38 3.4.38	34,6 39,6	F26 F21
242 242	Publishing— Newspaper printing or publishing Total (f)	1.0	1.1	1.1	n.p. 67.2	8. t	86.1 88.6	.संज्ञा १८४५
243	Recorded media manufacturing and publishing							
74	Total printing, publishing and recorded medin	1.8	1.7	1.7	11211	124.4	128.3	76.3
251	PETROLEUM, COAL, CHEMICAL AND ASSOCIATED PRODUCT MFG—Petroleum refining	d'u		1	ďu	!	i	n.p.
252	Perfoleum and coal product mfg n.e.c.	i		l	:	-		
2535 253	Basic chemical mfg— Inorganic industrial chemical mfg n.e.c. Total (f)	0.5 0.6	n.p. 0.4	n.p. 0.3	n.p. 168.9	n.p. 759.7	n.p. 127.9	.4'n .4'n
254	Other chemical product mfg	0.2	0.1	0.1	20.7	35.2	n.p.	9.6
2551 2559 255	Rubber product infg— Rubber tyre infg Rubber product infg n.c.c.	0.1 a.p. a.p.	и. 9. п. 1. р.	n.p. n.p.	<i>चीच</i> चीच 6'9	स्य त स्यास १८%	n.p. 2.2 n.p.	4.1 10.0. 8.9.
2562 2566 256	Plastic product mfg—— Plastic extruded product mfg Plastic injection moulded product mfg Total (f)	0.1 0.p.	n.p. 0.2 0.3	0.1 n.p. 0.3	20.2 n.p. 35.8	0.p. 9.8 31.5	17.7 n.n. 34.0	7.4 n.p. 16.8
25	Total petroleum, coal, chemical and associated product mfg	1.2	6.9	6.9	238.5	237.6	208.3	101.4
For foo	For footpotes see end of table.							

For footnotes see end of table,

TABLE 11. MANUFACTURING ESTABLISHMENTS (a): SELECTED OPERATIONAL STATISTICS BY INDUSTRY CLASS, TASMANIA, 1989-90 TO 1991--92 (b) -continued

usnpul	Industry class	Emplo	Employment at end of June (c)	e (c)		Turnover (d)		Value added (c)
ANZSIC Code	C Description	06-6861	16-0661	1991–92	1989-90		1991-92	1989–90
261	NON-METALLIC MINERAL PRODUCT MFG—Glass and glass product mfg	0.1	ď.n	0.2		п. q.п	n.p.	.d.n
2621 2629 262	Ceramic mfg—- Clay brick mfg Ceramic product mfg n.e.c. Total (j)	up.	0.1 .q.n	. d'a 	n.p. 0.p.	n.p. n.p.	n.p. 0.6 8.p.	તું. વે.વ વે.સ
2633 2635 263	Centert, lime, plaster and concrete product mfg— Concrete slury mfg Concrete product mfg n.e.e. <i>Total (f)</i>	0.1 n.p. 4.5	0.1 0.1 0.5	0.1 0.1 0.5	27.5 n.p. 1(22.9	32.3 n.p. 104.0	33.2 n.p. 111.6	9.5 n.p. 46.5
264	Non-metaflic mineral product mfg n.e.c.	n.p.	0.1	0.1	n.p.	17.5	16.7	n-p.
76	Total non-metallic mineral product mfg	0.9	0.9	6.9	152.2	151.4	159.6	072
2711 271	METAL PRODUCT MFG— from and steel mfg— Basic iran and steel mfg Toral (j)	п.р. п.р.	0.4 n.p.	0.4 0.5	п.р. Д.я.	п.р. <i>п.р.</i>	n.p. n.p.	લેવ
272	Basic non-ferrous metal mfg	n.p.	2.5	n.p.	n.p.	n.p.	n.p.	n.p.
2733 273	Non-ferrous busic metal product mfg— Non-ferrous metal casting Foud (f)	0.2	п.р. д.я	д.п .д.н	n.p. n.p.	αh. αp.	n.p. n.p.	n.p. n.p.
2741 274 2 274	Structural metal product mfg— Structural steel fabricating Architectural aluminium product mfg Total (t)	n.p. 0.2 0.6	мр. 0.2 0.5	0.3 n.p. 0.5	n.p. 17.8 56.9	n.p. 19.1 62.1	36.8 n.p. 58.6	n.p. 3.2 24.0
2751 2759 275	Shoet metal product only—— Metal container ofly Sheet metal product mfg n.c.c. Total	n.p. 0.3	n.p. n.p. 0.3	0.1 0.2 0.4	n.p. n.p. 34.5	n.p. n.p. 38.7	17.4 23.1 40.5	0.p. .q.n
2762 2764 2769 276	Fabricated metal product mfg—— Spring and wire product mfg Metal coating and finishing Fabricated metal product mfg n.e.c. Total (f)	np. 	0.p. 0.p. 0.3		n.p. 2.3 u.p. 89.7	n.p. n.p. 1974 40.1	1.1 n.p. 32.6	n.p 1.4 0.p.
27	Total metal product mfg	4.7	4.6	4,3	903.7	894.7	815.1	355.6

r footnotes see end of tab

TABLE 11. MANUFACTURING ESTABLISHMENTS (a); SELECTED OPERATIONAL STATISTICS BY INDUSTRY CLASS, TASMANIA, 1989-90 TO 1991-92 (b)-continued

Industr	Industry class	Emple	Employment at end of June (c)	ne (c)		Turnover (d)		Value added (c)
ANZSIC	IC————————————————————————————————————	1989-90	16-0661	1991–92	06:-6861	16-0661	1991–92	06.0801
2819 281	MACHINERY AND EQUIPMENT MFG— Motor vehicle and part mfg Automotive component mfg n.e.e. Total (f)	n.p.	6.0 0.9	0.5	0.p. 6.5.5	n.p. 65.8	43.7	n.p. 37.0
2821 2822 282	Other transport equipment mfg—— Shipbuilding Boatbuilding Total (f)	ո.թ. ո.թ. 0.5	იტ. ი.ტ.ი <i>ო.ტ.</i> ი	0.3 n.p.	<i>ખેપ</i> -તેપ -તેપ	יליט יליט ילים	ութ. 2.0 <i>ո.թ.</i>	n.p. n.p. n.p.
2831 2839 283	Phytographic and scientific equipment mfg— Photographic and optical good mfg Professional and scientific equipment mfg n.e.c. Foun! (f)	 n.p. 0.1	u.p.	: <i>d*u</i> 	1.8 0.5 n.p.	3.3 0.p. 7.9	3.0 n.p.	1.0 0.2 n.p.
2841	Electronic equipment mfg— Computer and business machine mfg Total (f)	n.p. 0.1	.d.a .d.a	n.p.	0.6 5.4	.q.n .q.n	n.p.	U.3 2.9
2851 285	Electrical equipment and appliance mfg Household appliance mfg Foral (f)	0.1 0.2	0.1 0.2	0.p.	7.0	6.9 /3.9	n.p. 13.5	3.7
2861 2862 2865 2865 2869	Industrial machinery and equipment mfg— Agricultural machinery mfg Mining and construction machinery mfg Lifting and material handling equipment mfg Industrial machinery and equipment mfg n.c.c. Total (f)	 0.0 1.0 0.1	9.2 9.2 8.5 8.5	n.p. — — — — — — — — — — — — — — — — — —	2.5 n.p. 12.0 n.p. 39.5	2.5 5.6 17.2 18.P 58.9	2.6 n.p. 22.9 n.p. 46.7	1.2 6.0 6.0 1.9.
28	Total machinery and equipment mfg	2.2	2.2	1.8	186.6	196.3	201.5	113.0

For footnotes see end of table.

TABLE 11: MANUFACTURING ESTABLISHMENTS (a): SELECTED OPERATIONAL STATISTICS BY INDUSTRY CLASS, TASMANIA, 1989 90 TO 1991 92 (b)—continued

1991-92 1989-90 n.p. n.p. 33.1 n.p. 0.3 8.2 { 0.1 8.3 0.1 8.3 0.1 8.3 0.1 8.3	Industr	Industry class	Emple	nr fo	: ; he (c)		Turnover (d)		Value added (e)
OTHER MANUE ACTURING—Prefabricated building mfg 0.2 0.1 0.2 15.9 15.4 16.2 Furniture mfg—Wooden furniture and upholstered seat mfg 0.6 n.p. 0.6 n.p. 33.7 n.p. Wooden furniture and upholstered seat mfg 6.7 0.6 n.p. 33.7 n.p. Wiscellaneous manufacturing—Total (f) 1.0 0.2 1.0 1.0 1.1 0.1 1.1 1.1 0.1 1.2 1.1 0.1 1.2 1.1 0.1 1.2 1.1 0.1 1.2 1.3 0.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.7 1.3 1.7	4NZSI Code	C Description	06-6861	16-0661	1991–92	1989–90			1989. 90
Furniture mfg— Wooden furniture and upholstered seat mfg 0.6 n.p. n.p. 33.7 n.p. Mooden furniture and upholstered seat mfg 70tal (θ) n.p. 33.7 n.p. 37.4 Miscellaneous manufacturing— Toy and sporting good mfg 0.2	291	OTHER MANUFACTURING— Prefabricated building mfg	0.2	1.0	0.2	15.9	4.8	16.2	. 6.6
Miscellaneous manufacturing— Toy and sporting good mfg $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$	2921 292	Furniture mfg Wooden furniture and upholstered seat mfg Total (j)		0.6	n.p. 0.5	n.p. 53.1	33.7	n.p. 37,4	n.p. 26,9
1.1 6.9 6.8 77.3 63.1 58.0 26.2 24.5 23.1 4,092.5 4,121.9 3,886.6 1.7	2942 2949 294	Miscellaneous manufacturing— Toy and sporting good intg Manufacturing n.e.c. Total (I)) 0.2 { 0.2 {		n.p. 0.1 0.7	} 8.2 8.3	0.4 n.p. 3.8	n.p. 3.5 4.3	} 4.0 */.
26.2 24.5 23.1 4,092.5 4,121.9 3,886.6	56	Total other manufacturing	171	6'0	6.8	27.3	63.1	58.0	37.6
	21-29	TOTAL MANUFACTURING	26.2	24.5	23.1	4,092.5	4,121.9	3,886.6	1,752.5

(a) See paragraph 8 of the Explanatory Notes. (b) For comparability of data over the time periods shown, see paragraph 15 of the Explanatory Notes. (c) Includes working proprietors. (d) These data are not available for the years 1990-91 and 1991-92, as the data items necessary to derive them were not collected in these years. (f) The mal shown is that for all ANZSIC classes within the industry group are either not available for publication (due to confidentiality restrictions) or there are no units classified to those ANZSIC classes.

EXPLANATORY NOTES

INTRODUCTION

- **1** This publication presents final statistics compiled from a survey of manufacturing establishments for 1992–93, with some comparative statistics relating to preceding years.
- **2** For the 1992–93 collection, a sample of approximately 21,000 manufacturing businesses, nationally, was approached to provide information. All previous manufacturing collections were conducted by approaching all known manufacturing businesses.
- **3** The manufacturing collection is conducted on an annual basis and businesses are annually requested to provide data on employment, wages and salaries paid and turnover. For the 1992–93 collection, additional information related to detailed structural and performance data, such as value added, stocks, purchases and capital expenditure, and manufacturing exports was collected. To complement the environmental protection data collected in both the 1990–91 and 1991–92 censuses, the 1992–93 survey also collected some data on issues related to environmental protection.
- **4** 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.

SCOPE AND COVERAGE

- **5** The main unit for which statistics are reported in the annual manufacturing collection is the establishment. Prior to the 1988–89 census, this unit covered, in general, all the operations carried on under the ownership of one enterprise (business) at a single physical location.
- **6** The standard units definitions were revised for the 1988–89 census, with the establishment now being generally delineated on the basis of availability of accounting data rather than in terms of a location.
- 7 These new definitions were progressively implemented on the ABS central business register as reporting arrangements with individual businesses were finalised. The new definitions were fully implemented on the ABS central business register in time for the 1990–91 census for those units classified to the manufacturing industry.
- **8** 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 and which are excluded.
- **9** Some of those establishments predominantly engaged in one activity are 'split' into two or more establishments, when the secondary activity exceeds a specific value. (For 1992–93, this value was \$6.5 million in terms of sales and transfers out of goods and services.) These separate establishments are then classified to the industry appropriate to its activity.

10 Data contained in this publication relate to all manufacturing businesses which operated in Tasmania during the year ended 30 June 1993, except for sole proprietorships or family partnerships not employing staff at the end of June 1993. These businesses contribute only marginally to statistical aggregates (other than number of establishments). In addition, the ABS attempts to obtain data in respect of those businesses which either commenced or ceased operation during the year, but it is not possible to obtain data in respect of them all.

STANDARD UNITS

RELIABILITY OF ESTIMATES

- 11 For the definition of the standard units now in use, see the Glossary.
- 12 Data presented in this publication are based on information obtained from a sample of manufacturers and are, therefore, 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 collection. One measure of the likely difference 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.
- 13 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 most of the data presented in this publication are 3% or less for Tasmanian estimates, as can be seen from the relative standard errors for the indicative data items contained in table 10 of this publication.
- 14 The imprecision due to sampling variability, which is measured by the standard error, should not be confused with inaccuracies that may occur because of imperfections in reporting by respondents and errors made in collection and processing of the data. Inaccuracies of this kind are referred to as non-sampling error and they may occur in any collection, whether it be a full count or only a sample. Every effort is made to reduce non-sampling error to a minimum by careful design of forms, editing of data and efficient operating procedures.

COMPARABILITY WITH PREVIOUS STATISTICS

- 15 As explained above, the standard units definitions were revised for the 1988–89 census and the new definitions were fully implemented on the ABS central business register in time for the 1990–91 census for units classified to the manufacturing industry.
- **16** As with the last two issues of this publication, this issue makes no distinction in tables presented between those single establishment businesses with less than four persons employed and all other establishments. For users still interested in the dissection between establishments employing less than four persons and establishments employing four or more persons, attention is drawn to table 6 and the employment size category 0–3 persons. This category includes all establishments employing less than four persons. In most cases, data in this employment size category equates to the category used for tabulations from earlier manufacturing industry collections of less than four persons employed (the major exception being subdivision 26). A detailed break up of the differences can be made available on request.

GROSS PRODUCT AT FACTOR COST

- 17 Table 5 presents data by industry subdivision for the period 1989–90 to 1992–93 (inclusive) related to constant price estimates of gross product at factor cost. The meaning and measurement of production at constant prices and the limitations and qualifications of the estimates are discussed in detail in *Australian National Accounts: Concepts, Sources and Methods* (5216.0).
- 18 Previously, estimates for this data item have only been published (for total Australia) in *Manufacturing Industry*. *Australia* (8221.0). The basic approach in compiling these estimates involves extrapolating a base year estimate of gross product (described below) by a measure of output at constant prices. Constant price turnover is used as the output indicator with which to extrapolate the base year gross product. To obtain constant price estimates of turnover, current price estimates at the ANZSIC class level are deflated by components of the price indices contained in *Price Indexes of Articles Produced by Manufacturing Industry*, *Australia* (6412.0).
- 19 The base year gross product is estimated for each ANZSIC class using 1989-90 manufacturing census data for value added and adjusted value added. Value added is calculated using turnover, plus the increase (or less the decrease) in the value of stocks, less purchases, transfers in and selected expenses. Adjusted value added is defined as value added less land tax, rates and payroll tax, insurance premiums (other than for workers' compensation) and other business expenses. To conform to the national accounting concept of gross product at factor cost, further adjustments would be necessary using information from other than manufacturing census sources e.g. by the addition of workers' compensation paid less premiums received. However, due to data limitations, these further adjustments can only be made at the ANZSIC subdivision level and are not taken into account in this publication. (This is because the ANZSIC subdivision data contained in this publication are derived from the data calculated at the ANZSIC class level.) The base year gross product values used in this publication are derived by taking establishment based estimates of adjusted value added and applying a stock valuation adjustment. (See Section 8 of Australian National Accounts: Concepts, Sources and Methods (5216.0) for an explanation of how this adjustment is undertaken).

EMPLOYMENT SIZE DATA

20 Summary of operations data at the industry subdivision level classified by employment size are presented in table 6. Similarly, exports of goods produced data at the industry subdivision level classified by broad employment size are presented in table 8. The statistics in these two tables relate only to those manufacturing establishments operating at 30 June 1993. As such, the figures presented may differ slightly from those presented in the other tables. These other tables include data for those manufacturing establishments which operated at any time during 1992–93.

ENVIRONMENTAL STATISTICS

21 Data contained in table 7 relate to current and capital expenditure on environmental protection in the year ended 30 June 1993. Establishments which did not respond were treated as if they had no current or capital expenditure on environmental protection.

EXPORT STATISTICS

22 Data relating to the amount of sales and/or transfers out of goods produced which were subsequently exported are presented in tables 8 and 9. This is the first time that these data have been obtained by the annual manufacturing collection. All units selected in the manufacturing survey were asked whether they exported and, if so, what percentage of their sales of goods produced were exported by them or an agent on their behalf. The data presented in table 8 are derived by applying the percentage of exports reported for each exporting unit and then aggregating that figure. The data in table 8 exclude those manufacturing establishments which operated during 1992–93 but were not operating at 30 June 1993.

INTRODUCTION OF ANZSIC

23 The 1992–93 manufacturing survey introduces the Australian and New Zealand Standard Industrial Classification (ANZSIC) into the annual manufacturing collection. This classification replaces the Australian Standard Industrial Classification (ASIC) previously used. For a more detailed explanation, users attention is drawn to the introduction to table 10 in the 1991–92 issue of this publication and to the *Australian and New Zealand Standard Industrial Classification*, 1993 (1292.0). All time series statistics contained in this publication are ANZSIC-based. Table 11 of this publication presents selected statistics by ANZSIC class for the years 1989–90 to 1991–92 (inclusive). Corresponding ANZSIC-based data for years prior to 1989–90 are not available.

INFORMATION PAPER

24 The *Information Paper: Availability of Statistics Related to Manufacturing, 1996* (8205.0), outlines the vast amount of data available about the manufacturing industry in both published and unpublished form available from both the annual manufacturing collection and other ABS collections.

RELATED PUBLICATIONS

- 25 Users may also wish to refer to the following publications:
 - Cost of Environment Protection, Australia, 1991–92 and 1992–93 (4603.0), to be released later in 1996.
 - Quarterly Indexes of Industrial Production, Australia (8125.0).
 - Business Operations and Industry Performance, Australia, 1992–93 (8140.0), released on 22 June 1994.
 - Manufacturing Industry, Australia, Preliminary, 1993–94 (8201.0), released on 13 December 1995.
 - Manufacturing Industry, Australia, 1992–93 (8221.0), released on 12 March 1996.
 - Information Paper: Availability of Statistics Related to Manufacturing, 1996 (8205.0), released on 21 March 1996.
 - Manufacturing Production, Australia: Principal Commodities Produced, 1989–90 (8365.0), released on 4 February 1994.

MONTHLY COMMODITY DATA

26 The monthly publication *Manufacturing Production*, *Australia* (8301.0) includes data for 63 major commodities.

BACK DATA AND UNPUBLISHED STATISTICS

- 27 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. A charge would normally be made for providing such information. The Information Paper referred to above provides more details.
- 28 In particular, constant prices data on an ANZSIC basis are available back to 1984–85. However, constant price estimates on a true ANZSIC basis are only available from 1989–90. Nevertheless, an exercise has been undertaken to convert estimates for earlier years onto an ANZSIC basis using the relationships that applied between ASIC and ANZSIC in the years 1990–91 and 1991–92. These estimates are available at both the Australian and State and Territory levels back to 1984–85. It should be noted that the relationships that applied in 1990–91 and 1991–92 are less likely to apply the earlier the reference year. Also, constant price estimates of gross product at factor cost for the years 1989–90, 1990–91, 1991–92 and 1992–93 by ANZSIC class are available as unpublished data. All of these data can be purchased from the ABS in Canberra by contacting Paul Curran on (06) 252 6801.

ROUNDING

29 Where figures have been rounded, discrepancies may occur between totals and the sums of the component items. Due to the sample nature of the 1992–93 collection, this 'rounding rule' also applies to the 'count' statistics included in this publication.

SYMBOLS AND OTHER USAGES

ANZSIC	Australian and New Zealand Standard Industrial Classification
ASIC	Australian Standard Industrial Classification
n.e.c.	not elsewhere classified
n.p.	not available for publication but included in totals where applicable
* *	not applicable
	nil or rounded to zero (incl. null cells)

GLOSSARY

ABS Australian Bureau of Statistics

Acquisition of dwellings, other buildings and structures Capital expenditure incurred acquiring dwellings, other buildings and structures. Note that this category includes purchases of both new and second-hand buildings and structures. It also includes purchases of roads, factories, warehouses, offices, bridges, etc.

Acquisition of other (including land and intangible assets)

Capital expenditure incurred acquiring other assets (including land and intangible assets). Intangible asset purchases may include items such as patents, copyrights and licences, but excludes goodwill.

Acquisition of plant, machinery and equipment

Capital expenditure incurred in acquiring plant, machinery and other equipment. Note that this category includes the purchase of motor vehicles.

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

Australian National Accounts (ANA) These Accounts are set up to provide a systematic summary of Australia's national economic activity. They have been developed in such a way as to facilitate the practical application of economic theory. National Accounts are summarised to show the key economic flows of the Keynesian system, being: production, income, consumption, investment and saving. They are also designed to show at a more detailed level the statistical picture of the structure of the economy and the detailed processes that make up domestic production and its distribution.

ANZSIC

Australian and New Zealand Standard Industrial Classification

ASIC

Australian Standard Industrial Classification

Average employees

This is derived by taking the average employment for the reference year and then adjusting this figure according to the type of legal organisation (TOLO) that is attributed to the unit. This means that the number of average employees (whole year) is equal to the average employment (whole year) for that unit less 1 (if TOLO = 6 (unit is a sole proprietorship) or less 2 (if TOLO = 7 or 8 (unit is a family partnership or other partnership)).

Average employment

This is derived by summing together the number of working proprietors and the number of employees on the payroll during the last pay period of each month of the financial year. This aggregation is then divided by twelve to derive the average employment over the reference year.

Balance of turnover

The sum of income from services, rent, leasing and hiring income, total government subsidies and the value of own account capital work.

Capital expenditure

Includes all costs incurred in the acquisition of items that are of a capital nature. Included in this are expenses for the acquisition of: dwellings, other buildings and structures; plant, machinery and equipment; and other capital expenditure (including land and intangible assets).

Capital expenditure to abate pollution

Expenditure on new plant, machinery or equipment designed to abate or control pollution by using either end-of-line techniques or change-in-production processes.

Capital expenditure to abate pollution as a proportion of total capital expenditure This item represents the proportion of total capital expenditure that is utilised in measures designed to abate pollution. Please note that for the data item capital expenditure to abate pollution, establishments which did not respond were treated as if they had no such capital expenditure. However, the ratio is calculated by dividing the reported capital expenditure designed to abate pollution by the total capital expenditure for the ANZSIC class, etc., not just the aggregated capital expenditure for those units which reported capital expenditure to abate pollution.

Capital work done for own use The value of work done by the employees or proprietors of an establishment for the business' own use, or for rental or lease. This item includes the value of the cost of the materials and the wages and salaries involved.

Change in stocks

The value of total closing stocks minus total opening stocks.

Closing stocks

The value of all stocks of finished goods, work-in-progress, raw materials, fuels, containers and packaging as at the end of the financial year.

Contract, subcontract and commission expenses

Includes payments to other businesses and self-employed persons for work done, or sales made on a contract or commission basis, plus payments to persons paid by commission without a retainer. Excludes commission paid to persons who receive a retainer, commissions paid to own employees and payments to consultants.

Current expenditure on environmental protection Expenditure on waste management plus other operational or maintenance costs incurred in protection of the environment from pollution. Included are such expenses as government and council fees, charges and taxes relating to pollution abatement and control, charges to remove and dispose of wastes arising from an establishment's production processes, research and development expenditure on pollution abatement and control, and expenditure on environmental impact assessments and environmental audits.

Current expenditure on environmental protection as a proportion of total turnover This item represents the current expenditure on environmental protection expressed as a proportion of the total turnover. Please note that for the data item current expenditure on environmental protection, establishments which did not respond were treated as if they had no such current expenditure. However, the ratio is calculated by dividing the reported current expenditure on environmental protection by the total turnover for the ANZSIC class, etc., not just the aggregated turnover for those units which reported current expenditure on environmental protection.

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 in June each year. Employees absent on paid or prepaid leave are included. Sole proprietors and partnerships not employing others 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 enabling value added to be calculated. In general, an establishment covers all operations at a physical location, but may consist of a group of locations provided they are within the same State or Territory. The majority of establishments operate at one location only.

Establishments at 30 June

The number of establishments in operation at 30 June in the year of a given reference period.

Establishments that do not export

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

Establishments with exports of more than 50% of sales

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

Establishments with exports up to and including 50% of sales

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

Exports as a proportion of sales of goods produced (Table 8)

For an individual establishment, this represents the percentage of the total sales and transfers out of goods produced by the establishment (or for it on commission) which are exported (outside Australia) by the business or its agent. In table 8, the ratio is calculated by dividing the total value of goods exported by the total value of sales and transfers out of goods produced by all establishments, not just the aggregated value for those units which exported.

Gross Domestic Product (GDP)

Gross domestic product (also referred to as gross domestic product at market prices) is the total market value of goods and services produced in Australia within a given period after deduction of the cost of goods and services used up in the process of production, but before deducting allowances for the consumption of fixed capital. Thus, gross domestic product, as here defined, is 'at market prices'. It is equivalent to gross national expenditure plus exports of goods and services less imports of goods and services.

Gross product at factor cost

Gross product at factor cost is that part of the cost of producing the gross domestic product which consists of gross payments to factors of production (labour, land, capital and enterprise). It represents the value added by these factors in the process of production and is equivalent to gross domestic product less indirect taxes plus subsidies.

Gross product per person employed

Gross product at factor cost divided by average employment over the whole year.

Income from services

Income received from service activities. This income includes: repair and service income and fees; contract, subcontract and commission income; installation charges; and management fees/charges from related and unrelated businesses. Excluded are interest and royalities received.

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 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 table 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
- Non-metallic mineral product mfg 26
- 27 Metal product míg
- 28 Machinery and equipment mfg
- 29 Other manufacturing

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.

Motor vehicle running expenses

Comprises costs associated with operating motor vehicles. These costs include: fuel, registration fees and compulsory third party insurance premiums; rent, leasing and hiring expenses; and repair and maintenance expenses. The costs exclude: expenses for off-road motor vehicles (e.g. forklifts, mobile plant, quarry dump trucks); depreciation; finance lease payments; and comprehensive motor vehicle insurance.

Net capital expenditure

The value of total capital expenditure less total revenue from the disposal of assets.

Opening stocks

The value of all stocks of finished goods, work-in-progress, raw materials, fuels, containers and packaging as at the beginning of the financial year.

Outward freight and cartage expenses

Costs associated with freight and delivery of goods, excluding the cost of delivery by an establishment's own vehicles and employees.

Own account capital work

The value of work done by the employees or proprietors of an establishment for the business' own use, or for rental or lease. This item includes the value of the cost of the materials and the wages and salaries involved.

Persons employed per establishment

Employment at the last pay period ending in June divided by the number of establishments in operation at 30 June of the same year.

Purchases

Purchases of materials, components, containers, packaging, fuels, electricity and water, and purchases of goods for resale.

Purchases and transfers in

Purchases and transfers in of materials, components, containers, packaging, fuels, electricity 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 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.

Rent, leasing and hiring expenses

Includes payments on operating leases, but excludes finance lease payments and expenses associated with motor vehicles.

Rent, leasing and hiring income

Includes royalties from mineral leases and revenue from operating leases, but excludes income from finance leases and payments received under hire purchase arrangements.

Repair and maintenance expenses

Costs associated with repair and maintenance. These costs exclude repair and maintenance of motor vehicles and wages and salaries paid to an establishment's own employees engaged in repair and maintenance activities.

Sales and transfers out of goods produced by the establishment

Includes sales of goods produced by the establishment (or for it on commission), sales or transfers to related businesses, and progress payments billed on engineering and construction projects. Includes transfers out to other establishments of the same business. Transfers out 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.

Sales and transfers out of goods not produced by the establishment

Sales of goods not produced by the establishment, including sales or transfers to related businesses. Includes transfers out to other establishments of the same business. Transfers out 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.

Selected expenses

Includes contract, subcontract and commission expenses (including sales commission payments), repair and maintenance expenses, outward freight and cartage expenses, motor vehicle running expenses, and rent, leasing and hiring expenses.

Service income

Includes income received from service activities. This income includes; repair and service income and fees; contract, subcontract and commission income; installation charges; and management fees/charges from related and unrelated businesses. Excluded are interest and royalties received.

Total government subsidies

Includes revenue received from government bodies in the form of bounties, subsidies and export grants. It also includes payments for Jobstart and subsidies for apprenticeship schemes. Excludes capital grants payments.

Total purchases, transfers in and selected expenses

Purchases of materials, components, containers, packaging, fuels, electricity and water, and of goods for resale, plus transfers in of goods from other establishments of the same business, plus contract, subcontract and commission expenses (including sales commission payments), repair and maintenance expenses, outward freight and cartage expenses, motor vehicle running expenses, and rent, leasing and hiring expenses. 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.

Total sales of goods and transfers out

Includes sales of goods produced by the establishment (or for it on commission) and of goods not produced by the establishment, sales or transfers to related businesses, and progress payments billed on engineering and construction projects. Includes transfers out to other establishments of the same business. Transfers out 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.

Turnover

(See Note below). Sales (exclusive of excise and sales tax) of goods whether produced by the establishment or not, plus transfers out of goods to other establishments of the same business, plus bounties and subsidies on production, plus all other operating income from outside the establishment (such as commission income, repair and service income, and rent, leasing and hiring income), plus capital work done by an establishment's own employees for the business' own use, or for rental or lease. Receipts from interest, royalties, dividends and the sale of fixed tangible assets are excluded.

Note: 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, that is, 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 (based on average employment)

Turnover of manufacturing establishments which operated during the year ended 30 June divided by the average number of persons employed over the whole year.

Turnover per person employed (based on end of June employment)

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

Value added

(See Note below). Turnover, plus the increase (or less the decrease) in the value of stocks, less purchases, transfers in and selected expenses.

Note: While value added is the basic measure of an industry's contribution to total production, it cannot be inferred that when wages and salaries are deducted from value added the whole of the surplus is available for profit. There are many miscellaneous expenses (such as depreciation, workers' compensation insurance, other insurance, payroll tax, income tax, rates, advertising, interest on borrowed funds, bad debts and other sundry charges) which are not taken into account when arriving at value added. Value added as calculated in this publication differs from the concept used in National Accounts, where the concept of value added also excludes some administrative expenses and sundry charges, and the change in stocks component which is measured by valuing the physical changes in stocks at average annual current prices. It is not practicable in the annual manufacturing collection to collect data fully in accord with the National Accounts concept of value added.

Value added per person employed (based on average employment) Value added of manufacturing establishments which operated during the year ended 30 June divided by the average number of persons employed over the whole year.

Value added to turnover ratio

Value added of 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.

Wages and salaries

The gross wages and salaries of all employees of the establishment. The drawings of working proprietors are excluded.

Wages and salaries per employee (based on average employees) The wages and salaries paid by manufacturing establishments which operated during the year ended 30 June divided by the average number of employees over the whole year.

Wages and salaries to value added ratio

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



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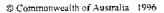
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