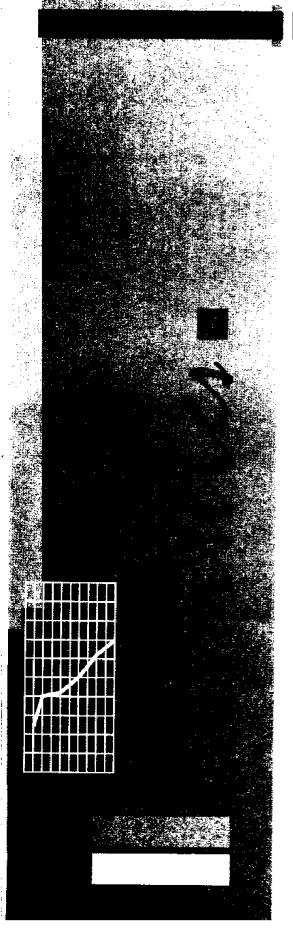
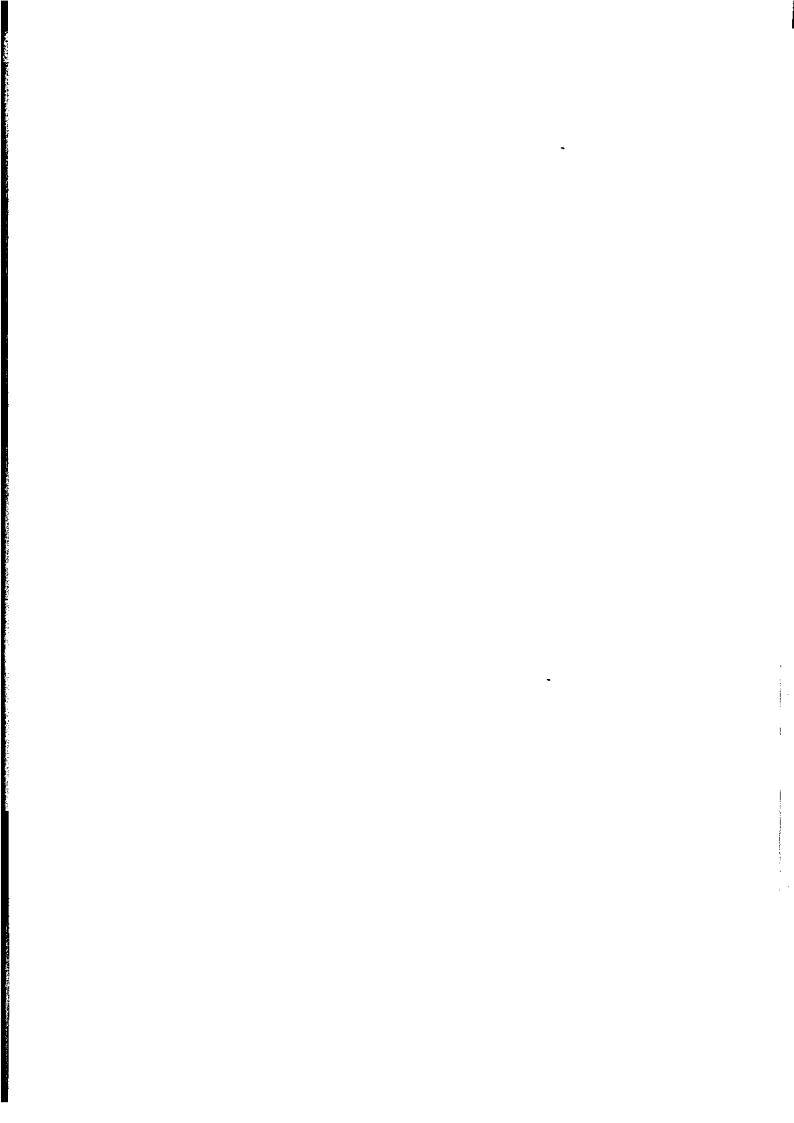


1992-93



Manufacturing Industry Northern Territory



MANUFACTURING INDUSTRY NORTHERN TERRITORY 1992-93

BOB HARRISON Statistician, Northern Territory Commonwealth of Australia 1996

CONTENTS

			Page
		Introduction	iv
TABLES			
Manufacturing establishments			
	1	Summary of operations by industry subdivision, Northern Territory, 1989–90 to 1992–93	1
	2	Number of establishments by industry class, Northern Territory, 30 June 1993	3
	3	Summary of operations by industry class, Northern Territory, 1992–93	6
	4	Selected operating ratios by industry class, Northern Territory, 1989–90 and 1992–93	7
	5	Gross product at factor cost (average 1989–90 prices) by industry class, Northern Territory, 1989–90 to 1992–93	9
	6	Summary of operations by employment size, Northern Territory, 1992–93	1 0
Relative standard errors			
	7	Relative standard errors for selected data items by industry subdivision, Northern Territory, 1992–93	11
Appendix		Manufacturing establishments: Selected operational statistics by industry class, Northern Territory, 1989–90 to 1991–92	12
ADDITIONAL INFORMATION			
		Explanatory Notes	14
		Glossary	18

INQUIRIES	for further information about statistics in this publication and the availability of
	related unpublished statistics, contact Jeffrey Middleton on Sydney
	(02) 268 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 the Northern Territory 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-Territory 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.

This is the final issue of this publication. However, data for the Northern Territory will continue to be available in the two national manufacturing publications referred to above and in the annual publication *Northern Territory in Focus* (1306.7). Data will also be available by contacting the ABS (see 'Inquiries' on page iii).

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 9 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) 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 the Northern Territory for 1992–93, where establishment value added amounted to \$220.6 million while establishment industry gross product amounted to \$186.1 million. Estimates for 1992–93 establishment industry gross product for individual manufacturing industries are available on request (subject to confidentiality considerations).

ADJUSTED FIGURES IN FUTURE

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 Northern Territory manufacturing is approximately 5% for 1992-93 turnover and 10% 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 are available on request as is an explanation of the adjustment process. Future manufacturing publications will only contain adjusted data. 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.

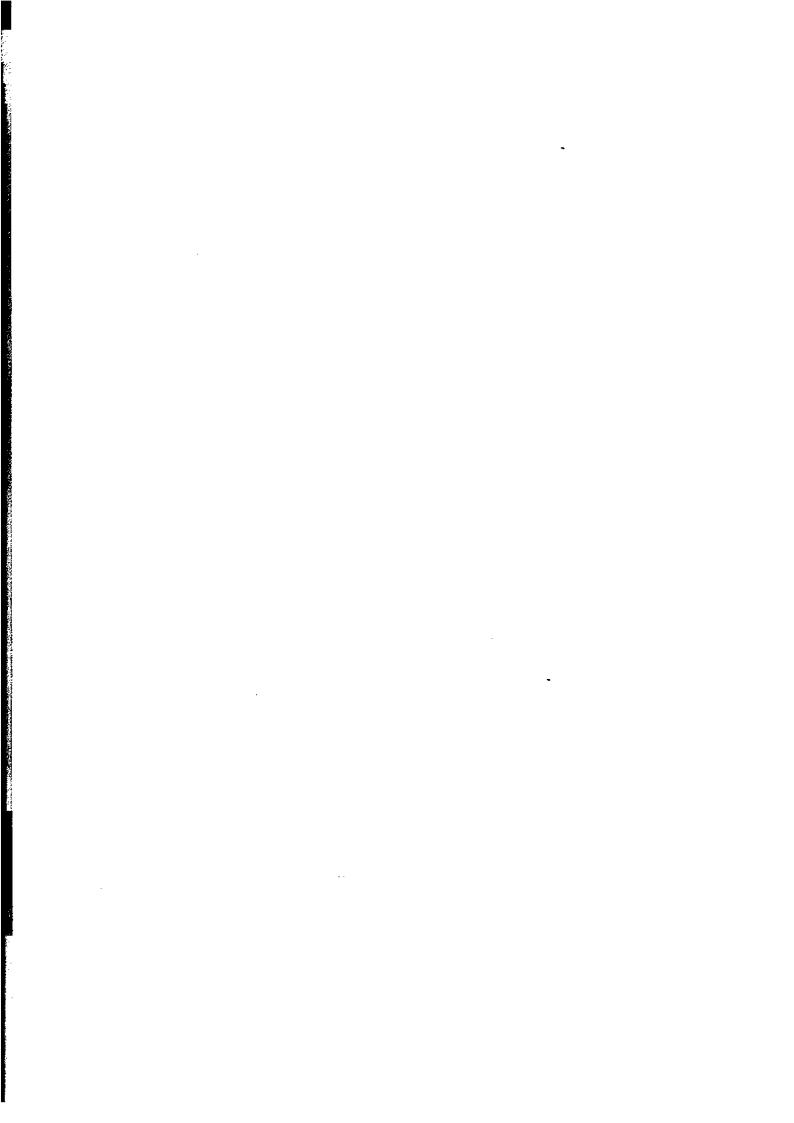


TABLE 1. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY SUBDIVISION NORTHERN TERRITORY, 1989–90 TO 1992–93 (b)

ANZSIC	D 1.1				
Code	Description	1989-90	1990-91	1991-92	1992-9
21		ENTS AT 30 JUNE (c)			
22	Food, beverage and tobacco mfg Textile, clothing, footwear and leather mfg	20 8	. 17 7	18	2
23	Wood and paper product mfg	20	17	7 13	1
24	Printing, publishing and recorded media	18	24	19	. 2
25	Petroleum, coal, chemical and associated product mfg	6	7	10	
26	Non-metallic mineral product mfg	19	17	i7	I
27	Metal product mfg	38	53	43	4
28	Machinery and equipment mfg	26	28	32	2
29	Other manufacturing	19	23	23	1
21-29	Total manufacturing	174	193	182	. 17
	EMPLOYMENT	AT END OF JUNE (d) (No.)		
21	Food, beverage and tobacco mfg	570	537	530	56
22 23	Textile, clothing, footwear and leather mfg	n.p.	91	94	8
43 24	Wood and paper product mfg	152	164	т86	12
25	Printing, publishing and recorded media Petroleum, coal, chemical and associated product mfg	377	362	319	34
26	Non-metallic mineral product mfg	n.p.	31	70	4
27	Metal product mfg	186	166	147	13
28	Machinery and equipment mfg	1,249 159	1,188 239	1,104	1,12
29	Other manufacturing	116	109	283 103	25 6
1-29	Total manufacturing	2,961	2,887	r2,736	2,74
	WAGES ANI	SALARIES (e)(f) (5	m)		······································
21	Food, beverage and tobacco mfg	15.0	15.4	14,5	16.
22	Textile, clothing, footwear and leather mfg	n.p.	1.9	2.2	2.0
23	Wood and paper product mfg	3.8	4.2	r3.6	2.0
24	Printing, publishing and recorded media	9.1	8.5	8.9	9.
25	Petroleum, coal, chemical and associated product mfg	n.p.	0.8	i.5	1.:
26	Non-metallic mineral product mfg	5,1	4.4	5.2	4.
27	Metal product mfg	46.3	46,1	43.6	46.4
28	Machinery and equipment mfg	3.7	5.7	8.6	8.6
29	Other manufacturing	1.9	1.8	1.9	1
1-29	Total manufacturing	87.8	89.0	r89.9	93.
	TUR	NOVER (f) (\$m)	·		
11	Food, beverage and tobacco mfg	109.2	99.1	100.7	108.4
2	Textile, clothing, footwear and leather mfg	n.p.	5.8	6.2	6.9
!3 !4	Wood and paper product mfg	16.0	18.0	r14.8	13.
25	Printing, publishing and recorded media Petroleum, coal, chemical and associated product mfg	29.4	27.6	27.1	29.3
6	Non-metallic mineral product mfg	n.p. 41.0	6.5	8.7	8.5
7	Metal product mfg	494.9	51.0 488.6	47.9 422.7	43.1 457.4
8	Machinery and equipment mfg	12.1	19.0	28.0	437.4 26.8
9	Other manufacturing	7.7	5.8	5.7	4.9
1-29	Total manufacturing	719.7	721.5	r661.8	698.5
	PERSONS EMPLOYE	D PER ESTABLISHN	IENT (No.)		
.]	Food, beverage and tobacco mfg	29	32	29	20
2	Textile, clothing, footwear and leather mfg	n.p.	13	13	1.
.3	Wood and paper product mfg	8	10	7	
4	Printing, publishing and recorded media	21	15	17	10
5	Petroleum, coal, chemical and associated product mfg	n.p.	4	7	
6	Non-metallic mineral product mfg	10	10	9	- I
	Metal product mfg	33	22	26	2
7	BARREDON	6	8	9	•
8	Machinery and equipment mfg				
8 9	Other manufacturing	6	5	4	

TABLE 1. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY SUBDIVISION NORTHERN TERRITORY, 1989–90 TO 1992-93 (b)—continued

Industry:	subdivision				
ANZSIC Code	Description	1989–90	1990–91	1991-92	1992–93
	TURNOVER PER PE	RŞON EMPLOYED (f)(g) (\$'000)		
21	Food, beverage and tobacco mfg	191.6	184.5	189.9	193.3
22	Textile, clothing, footwear and leather mfg	n.p.	63.7	65.9	79.6
23	Wood and paper product mfg	105.0	109.9	172.3	104.0
24	Printing, publishing and recorded media	77.9	76.3	85.1	84.6
25	Petroleum, coal, chemical and associated product mfg	n,p.	209.3	124.3	203.3
26	Non-metallic mineral product mfg	220.6	307.5	325.8	325.1
27	Metal product mfg	396.2	411.3	382.9	407.3
28	Machinery and equipment mfg	76.3	79.6	98.8	105.9
29	Other manufacturing	66.1	53.2	55.2	70.5
21-29	Total manufacturing	243.1	249.9	241.9	255.0

⁽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 NORTHERN TERRITORY, 30 JUNE 1993

indust	ry class	Establishments	Indust	try class	
ANZSI		at 30 June (b)	ANZS	- ·	Establishment at 30 June (b)
code	Description	(No.)	code	Description	(No.,
	FOOD, BEVERAGE AND TOBACCO MI	-G		TEXTILE, CLOTHING, FOOTWEAR	
	Meat and meat product mfg-			AND LEATHER MFG—continued	
2111	Meat processing	6		Clothing mfg—	
2112	Poultry processing	1	2241	Men's and boys' wear mfg	_
2113	Bacon, ham and smallgood mfg	1	2242	Women's and girls' wear mfg	
211	Total	8	2243	Sleepwear, underwear and infant clothing mfg	<u> </u>
	D-1		2249	Clothing mfg n.e.e.	· -
2121	Dairy product mfg—	_	224	Total	_
2122	Milk and cream processing Ice cream mfg	2			
2129	Dairy product mfg n.e.c.	_	225	Footwear mfg	
212	Total	2		Total II a a a	
212	10141	2	2261	Leather and leather product mfg	
213	Fruit and vegetable processing	1	2261	Leather tanning and fur dressing	1
0	. Twi and regulate processing	,	2262	Leather and leather substitute product mfg	_
214	Oil and fat mfg		226	Total	I
			22	Total textile, clothing, footwear and leather mfg	
	Flour mill and cereal food mfg-		22	total textue, croining, Jootwear and teather mf	g 6
2151	Flour mill product mfg			WOOD AND PAPER PRODUCT MFG-	
2152	Cereal food and baking mix mfg	_		Log sawmilling and timber dressing—	
215	Total	_	2311	Log sawmilling	
			2312	Wood chipping	
	Bakery product mfg—		2313	Timber resawing and dressing	_
2161	Bread mfg	5	231	Total	
2162	Cake and pastry mfg	2			
2163	Biscuit mfg	_		Other wood product mfg-	
216	Total	7	2321	Plywood and veneer mfg	
			2322	Fabricated wood mfg	· <u> </u>
	Other food mfg		2323	Wooden structural compenent mfg	13
2171	Sugar mfg	_	2329	Wood product mfg n.e.c.	5
2172	Confectionery mfg		232	Total	18
2173	Seafood processing	_			
2174	Prepared animal and bird feed mfg	Į.		Paper and paper product mfg	
2179	Food mfg n.e.c.	2	2331	Pulp, paper and paperboard mfg	_
217	Total	3	2332	Solid paperboard container mfg	_
	Ps		2333	Corrugated paperboard container mfg	_
2101	Beverage and malt mfg		2334	Paper bag and sack mfg	_
2181 2182	Soft drink, cordial and syrup mfg	1	2339	Paper product mfg n.e.c.	_
2183	Beer and malt mfg		233	Total	_
2184	Wine mfg Spirit mfg	_			
2184 218	Total		23	Total wood and paper product mfg	18
210	10ta	I		PR 11 (PR 10)	
219	Tobacco product mfg			PRINTING, PUBLISHING AND	
	roouceo produci myg	_		RECORDED MEDIA—	
2 I	Total food, beverage and tobacco mfg	22	2411	Printing and services to printing	
	Tome Joon, beverage and tobacco mig	22	2411	Paper stationery mfg	
	TEXTILE, CLOTHING, FOOTWEAR		2412 2413	Printing	14
	AND LEATHER MFG—		2413 241	Services to printing Total]
	Textile fibre, yarn and woven fabric mfg-		271	rotal	15
2211	Wool scouring	_		Publishing—	
2212	Synthetic fibre textile mfg	_	2421	Newspaper printing or publishing	
2213	Cotton textile mfg	_	2422	Other periodical publishing	5 2
2214	Wool textile mfg		2423	Book and other publishing	2
2215	Textile finishing	_	242	Total	7
221	Total	_	- · •		,
			243	Recorded media manufacturing and publishing	
	Textile product mfg-		_		
2221	Made-up textile product mfg	3	24	Total printing, publishing and recorded media	22
2222	Textile floor covering mfg			T (2) 1	22
2223	Rope, cordage and twine mfg	I		PETROLEUM, COAL, CHEMICAL AND	
2229	Textile product mfg n.e.c.	_		ASSOCIATED PRODUCT MFG-	
222	Total	4	25 I	Petroleum refining	
				. 9	
	Knitting mills—		252	Petroleum and coal product mfg n.e.c.	_
231	Hosiery mfg	_		1 20	
232	Cardigan and pullover mfg	I			
239 23	Knitting mill product mfg n.e.c.				
	Total	1			

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

Industr	y class	stablishments	Industr	y class	Establishmer
ANZSI		staotisnments at 30 June (b)	ANZSI	c	at 30 June
code	Description	(No.)	code	Description ?	(N
•	PETROLEUM, COAL, CHEMICAL AND	· · · · · · · · · · · · · · · · · · ·		METAL PRODUCT MFG—continued	
	ASSOCIATED PRODUCT MFG-continue	ed		Basic non-ferrous metal mfg-	
	Basic chemical mfg-		2721	Alumina production	
2531	Fertiliser mfg		2722	Aluminium smelting	
532	Industrial gas mfg	_	2723	Copper, silver, lead and zinc smelting, refining	
533	Synthetic resin mfg	_	2729	Basic non-ferrous metal mfg n.e.c.	
534	Organic industrial chemical mfg n.e.c.	_	272	Total	
535	Inorganic industrial chemical mfg n.e.c.		2/2	. (
		_		Non-ferrous basic metal product mfg-	
53	Total	_	2731	Aluminium rolling, drawing, extruding	
	04 2 1 1 2 6		2731	Non-ferrous metal rolling, drawing,	
	Other chemical product mfg—		2132		
541	Explosive mfg	1	2711	extruding n.e.c.	
2542	Paint mfg	1	2733	Non-ferrous metal casting	
2543	Medicinal and pharmaceutical product mfg	_	273	Total	
544	Pesticide mfg	_			
545	Soap and other detergent mfg	_		Structural metal product mfg	
2546	Cosmetic and toiletry preparation mfg		2741	Structural steel fabricating	
2547	ink mfg		2742	Architectural aluminium product mfg	
2549	Chemical product mfg n.e.c.	_	2749	Structural metal product mfg n.e.c.	
254	Total	2	274	Total	
	Rubber product mfg—			Sheet metal product mfg—	
2551	Rubber tyre mfg	1	2751	Metal container mfg	
2559	Rubber product mfg n.e.c.	i	2759	Sheet metal product mfg n.e.c.	
255	Total	2	275	Total	
	Plastic product mfg			Fabricated metal product mfg—	
eci		ı	2761	Hand tool and general hardware mfg	
561	Plastic blow moulded product mfg	,			
562	Plastic extruded product mfg		2762	Spring and wire product mfg	
2563	Plastic bag and film mfg	l	2763	Nut, bolt, screw and rivet mfg	
2564	Plastic product, rigid fibre reinforced, mfg		2764	Metal coating and finishing	
2565	Plastic foam product mfg	_	2765	Non-ferrous pipe fitting mfg	
2566 256	Plastic injection moulded product mfg Total	1 3	2769 276	Fabricated metal product mfg n.e.c. Total	
25	Total petroleum, coal, chemical and	·	27	Total metal product mfg	
	associated product mfg	7			
				MACHINERY AND EQUIPMENT MFG—	
	NON-METALLIC MINERAL PRODUCT ME	?G—		Motor vehicle and part mfg	
261	Glass and glass product mfg	-	2811	Motor vehicle mfg	
	•		2812	Motor vehicle body mfg	
	Ceramic mfg—		2813	Automotive electrical and instrument mfg	
2621	Clay brick mfg	ĺ	2819	Automotive component mfg n.e.c.	
2622	Ceramic product mfg	i	281	Total	
2623	Ceramic tile and pipe mfg		201	. 0.40	
2629		1		Other transport equipment mfg—	
	Ceramic product mfg n.e.c.		2021	Shipbuilding	
262	Total	3	2821		
			2822	Boatbuilding	
	Cement, lime, plaster and concrete product mfg		2823	Railway equipment mfg	
263 L	Cement and lime mfg	1	2824	Aircraft mfg	
2632	Plaster product mfg	_	2829	Transport equipment mfg n.e.c.	
2633	Concrete slurry mfg	5	282	Total	
634	Concrete pipe and box culvert mfg				
635	Concrete product mfg n.e.c.	4		Photographic and scientific equipment mfg-	
63	Total	10	2831	Photographic and optical good mfg	
		- •	2832	Medical and surgical equipment mfg	
64	Non motallic mineral meduce min n a c		2839	Professional and scientific equipment mfg n.e.	e.
174	Non-metallic mineral product mfg n.e.c.	<u>—</u>	283 283	Total	•
6	Total non-metallic mineral product mfg	13		Electronic equipment rafe	
	METAL PRODUCT MFG		2841	Electronic equipment mfg— Computer and business machine mfg	
	Iron and steel mfg—		2842	Telecommunication, broadcasting and	
711	Basic iron and steel mfg	1	20-0	transceiving equipment mfg	
			2849	Electronic equipment mfg n.c.c.	
712	Iron and steel casting and forging	1	-		
2713	Steel pipe and tube mfg		284	Total	
271	Total	2			

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

Industr	ry class	Establishments	Industr	y class	
ANZSI code		at 30 June (b) (No.)	ANZSI code	C Description	Establishments at 30 June (b) (No.)
	MACHINERY AND EQUIPMENT MFG—c	ontinued		OTHER MANUFACTURING—	
	Electrical equipment and appliance mfg—			Prefabricated building mfg—	
2851	Household appliance mfg	_	2911	Prefabricated metal building mfg	1
2852	Electric cable and wire mfg	_	2919	Prefabricated building rnfg n.e.c.	
2853	Battery mfg	_	291	Total	I
2854	Electric light and sign mfg	3			•
2859	Electrical equipment mfg n.e.c.	I I		Furniture mfg—	•
285	Total	4	2921	Wooden furniture and upholstered seat mfg	12
			2922	Sheet metal furniture mfg	
	Industrial machinery and equipment mfg-		2923	Mattress mfg (except rubber)	
2861	Agricultural machinery mfg	_	2929	Furniture mfg n.e.c.	_
2862	Mining and construction machinery mfg	1	292	Total	12
2863	Food processing machinery mfg	_			
2864	Machine tool and part mfg	_		Miscellaneous manufacturing—	
2865	Lifting and material handling equipment mf	g 3	2941	Jewellery and silverware mfg	t
2866	Pump and compressor mfg	_	2942	Toy and sporting good mfg	_
2867	Commercial space heating and		2949	Manufacturing n.e.c.	2
	cooling equipment mfg	1	294	Total	- 3
2869	Industrial machinery and equipment mfg n.e	.c. 1			
286	Total	6	29	Total other manufacturing	16
<i>28</i>	Total machinery and equipment mfg	28	21-29	TOTAL MANUFACTURING	171

⁽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 (b) NORTHERN TERRITORY, 1992–93

				 .		
		Employment			Total purchases,	
Industry	class	at end of	Wages and	•	transfers in	
<u> </u>		June	salaries		and selected	Value
ANZSIC		(c)	(d)	Turnover	expenses	added
code	Description	(No.)	(\$m)	(\$m)	(\$m) 	(\$m)
21	Food, beverage and tobacco mfg	561	16.7	108.4	74.2	34.1
216	Bakery product mfg	144	3.2	17.2	9.6	7.6
22	Textile, clothing, footwear and leather mfg	87	2.0	6.9	3.7	2.9
222	Textile product mfg	n.p.	n.p.	n.p.	n.p.	n.p.
2221	Made-up textile product mfg	35	0.9	3.9	1.9	2.0
23	Wood and paper product mfg	126	2.6	13.1	8.6	4.8
232	Other wood product mfg	126	2.6	13.1	8.6	4.8
2323	Wooden structural component mfg	97	2.3	12.0	8.2	4.1
2329	Wood product mfg n.e.c.	29	0.3	1.1	0.5	0.7
24	Printing, publishing and recorded media	345	9.7	29.2	11.3	17.6
241	Printing and services to printing	n.p.	n,p.	n.p.	n.p.	n. p .
2412	Printing	94	1.9	5.3	2.5	2.8
242	Publishing	n.p.	n,p.	n.p.	n.p.	n.p.
2421	Newspaper printing or publishing	238	n.p.	n.p.	n.p.	n.p.
25	Petroleum, coal, chemical and					
	associated product mfg	44	1.5	8.9	6.1	3.1
256	Plastic product mfg	n.p.	0.5	3.2	1.6	1.7
26	Non-metallic mineral product mfg	133	4.7	43.2	29.6	13.4
262	Ceramic mfg	29	n.p.	n.p.	n.p.	n.p.
263	Cement, lime, plaster and concrete product to		n.p.	n.p.	n.p.	n.p.
2633	Concrete slurry mfg	41	1.6	18.0	13.7	4.3
2635	Concrete product mfg n.e.c.	n,p.	1.5	5.6	2.6	3.1
27	Metal product mfg	1,123	46.4	457.4	230.3	226.2
274	Structural metal product mfg	257	n.p.	n,p.	n.p.	n.p.
2741	Structural steel fabricating	180	3.8	18.3	11.1	7.2
2742	Architectural aluminium product mfg	77	n.p.	n.p.	n.p.	n.p.
276	Fabricated metal product mfg	49	n.p.	n.p.	n.p.	n,p.
2769	Fabricated metal product mfg n.e.e.	n.p.	0.8	3.4	2.4	1.0
28	Machinery and equipment mfg	253	8.0	26.8	10.7	15.5
282	Other transport equipment mfg	n.p.	n.p.	n.p.	n.p.	n.p.
2824	Aircraft mfg	30	0.8	2.0	0.6	1.4
283	Photographic and scientific equipment mfg	70	n.p.	n.p.	n.p.	n,p.
2832	Medical and surgical equipment mfg	n.p.	0.6	1.3	0.2	1.1
285	Electrical equipment and appliance mfg	42	0.9	2.7	1.3	1.3
286	Industrial machinery and equipment mfg	19	0.7	3.4	1.4	1.9
29	Other manufacturing	69	1.5	4.9	2.5	2.5
294	Miscellaneous manufacturing	17	n.p.	n.p.	n.p.	n.p.
21-29	TOTAL MANUFACTURING	2,741	93.0	698.9	377.0	320.0

⁽a) See paragraph 8 of the Explanatory Notes. (b) ANZSIC subdivisions plus those ANZSIC groups and ANZSIC classes with data available for publication have been shown in this table. Data for ANZSIC groups and ANZSIC classes that are not available for publication (due to confidentiality restrictions) have generally been excluded from this table, as have those categories to which no units were classified. (c) Includes working proprietors. (d) Excludes the drawings of working proprietors.

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

		e e		į.		Zaba Z		ž			Ratio of		
Industr	Industry class	emplo establis	employed per establishment (c)	per p per p employ	per person employed (d)(e)	ruiue per j employ	per person per person employed (d)(e)	raga Safar emplo)	rages and salaries per employee (e)(f)	Value	Value added	Wages and salaries to	and ss to
ANZSIC	C Description	06-6861	(wo.) 1 1992–93	06-686I	(3 UNU) 10 1992–93	06-6861	(3'000) 10 1992-93	06-6861	(\$'000) 0 1992-93	1989–90	to turnover -90 1992–93	value added 1989–90 199	dded 199293
11	Food, beverage and tobacco mfg	23	97	225.2	193.6	79.1	6.09	31.3	30.1	0.35	0.31	0.39	0.49
316	Bakery product mfg	17	7.1	п.р.	114.5	n.p.	50.4	n.p.	21.8	n.p.	4.0	n.p.	0.43
22	Textile, clothing, footwear and leather mig	n.p.	15	a.p.	83.4	ij.	34.7	n.p.	24.0	n.p.	0.42	d.n	69.0
222 2221	Textile product mfg Made-up textile product mfg	01 u.p.	95 120	61.6 n.p.	n.p. 121.9	27.2 n.p.	п.р. 63.2	18.0 n.p.	n.p. 27.4	0,4 4,0	n.p. 0.52	0.66 n.p.	n.p. 0.43
23	Wood and naner product mf9	œ	7	102	103.2	46.6	17.0	283	,,,	. 6	0.27	. 43	0.54
232	Other wood product mfg) >	٠, ۴~	107.1	103.2	46.6	37.9	28.3	22.2	0.43	0.37	0.55	0.54
2323 2329	Wooden structural component rafg Wood product rafg n.e.c.	≫ ' ∧	۶ م	114.2 56.3	123.5 37,4	49.5 25.8	42.3 23.6	29.4 18.1	25.2	0.43	0.34	0.55	0.56
24	Printing, publishing and recorded media	21	16	79.6	63.9	70 30 30	50.5	25.2	28.8	0.70	0.60	0.44	25 0
241	Printing and services to printing	п.р.	n.p.	n.p.	n.p.	n.p.	d'u	п,р,	n.p.	d.fr	n.p.	n.p.	u.p.
2412	Printing	15	_	67.1	54.8	41.0	29.2	23.1	22,0	0.61	0.53	0.54	0.68
242 2421	Publishing Newspaper printing or publishing	n.p. n.p.	n.p. 48	d.n G.p	n.p. n.p.	n.p.	n, q, n q, n	n.p. n.p.	п.р. д.р.	л.р. п.р.	n Çiğ	ц. п.	n.p. n.p.
52	Petrokum, coal, chemical and												
256	associated product mfg Plastic product mfg	n.p. n.p.	6 п.р.	d d.u	203.3 n.p.	i.p .	71.2 n.p.	ចាំខ ពីមិ	40.7 n.p.	n.p. n.p.	0.35 0.52	 	0.49 0.33
97	Non-metallic mineral product mfg	9	10	221.8	320.3	68.0	99.7	27.7	34.8	0.31	0.31	0.40	0.35
797	Ceramic mfg	1	<u>o</u>		d'u		n.p.	Ė	n.p.		n.p.		ď.n
263	Cement, lime, plaster and concrete product mfg	Ü,Ü	010	n.p.	п.р.	n.p.	д. 7.07	n.p.	n.p.	n.p.	n.p	d.;	n.p.
2635	Concrete product mfg n.e.c.	° 7	n.p.	102.0	-d-u	57.1	n.p.	25.0	39.3 n.p.	0.56	0.24	0 4 4	0.37
11	Metal product mfg	33	78	394.6	418.5	211.5	206.9	37.2	43.1	0.54	0.49	0.17	0.21
274	Structural metal product mfg Structural steel fabricating	n.p.	5 5	n.p.	n.p. 128.0	n.p.	л.р. 50 g	n.p.	n.p.	n.p.	n.p.	d'u	ц.р
2742	Architectural aluminium product mfg	· •	-	157.7	n.p.	55.0	i d'il	24.5	n.p.	0.35	0.34 n.p.	0.43	d d
275 2759	Sheet metal product mfg Sheet metal product mfg n.e.c.	n.p.	a.p.	n.p. 107.1	n.p.	n.p. 48.9	d'u o'b	п.р. 25.4	a, p,	n.p. 0.46	n.p. n.p.	n.p. 0.50	n.p. n.p.
276 2769	Fabricated metal product mfg Fabricated metal product mfg n.e.c.	n.p. 10	s n.p.	n.p. 127.0	d'u	n.p. 43.2	d d	п.р. 28.1	n du du	п.р. 0.34	n.p. 0.29	n.p. 0.58	n.p. 0.83
For foot	For footnotes see end of table.	:				i	:						

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

		D		Ę		Vat.	,	11/20	70		Ratio of	- ∫o	
Industry class	class	emplo establis	employed per establishment (c)	per	per person employed (d)(e)	per	raive added per person employed (d)(e)	raggi salar emplo)	r ages ana salaries per employee (e)(f)	Value	Value added	Wages and salaries to	and ess to
ANZSIC code	Description	06-6861	1992-93	1989-90 1992-93	(3 000) 10 1992–93	06-6861	(3 ooo) 10 1992-93	06-686I	(3 000) 0 1992–93	06-6861	10 iurnover -90 1992-93	1989-90 1992-93	aaea 1992-93
78	Machinery and equipment mfg	٠	6	66.5	103.9	31.3	60.0	20.9	32.1	0.47	0.58	0.65	0.51
281 2819	Motor vehicle and part mfg Automotive component mfg n.e.c.	5 S	n.p.	67.7	n.p. n.p.	37.0 37.0	o,p. o,p.	20.3 20.3	n.p.	0.55	0.p.	0.55	п.р. п.р.
282 2824	Other transport equipment rafg Aircraft mfg	n.p.	n.p.	n.p. n.p.	n.p. 67.5	n.p.	n.p. 46.3	n. Agan	n.p. 28.2	а 4 ф	0.69 0.69	ф. ф.	n.p. 0.61
283 2832	Photographic and scientific equipment mfg Medical and surgical equipment mfg	4 4	10 n.p.	48.5 48.5	п.р. п.р.	24.0 24.0	n.p. n.p.	18.9 18.9	n.p. n.p.	0.50	n.p. 0.82	0.79	n.p. 0.53
285	Electrical equipment and appliance rufg	n.p.	Ξ	n.p.	64.0	n.p.	31.6	n.p.	22.7	пр	0.49	п.р.	89.0
286	Industrial machinery and equipment mfg	4	3	111.3	146.2	37.9	84.3	28.0	28.7	0.34	0.58	0.65	0.34
29 294	Other manufacturing Miscellaneous manufacturing	99	4 €	67.5 63.0	66.6 n.p.	29.5 29.2	33.6 n.p.	19.0 20.8	25.7 n.p.	0.44 0.46	0.50 n.p.	0.57 0.61	0.60 n.p.
21–29	TOTAL MANUFACTURING	11	16	249.6	256.9	123.9	117.6	31.1	35.2	0.50	0.46	0.25	0.29

(a) See paragraph 8 of the Explanatory Notes. (b) ANZSIC groups and ANZSIC groups and ANZSIC classes with data available for publication have been shown in this rable. Data for ANZSIC groups and ANZSIC classes that are not available for publication (due to confidentiality restrictions) have generally been excluded from this table, as have those categories to which no units were classified. (c) Number of persons employed at the end of June (including working proprietors) divided by the number of establishments in operation at 30 June. (d) Based on average employment over the whole year. Includes working proprietors and, therefore, do not discount the impact of price changes. (f) Based on average number of employees over the whole year. Excludes working proprietors and their drawings.

TABLE 5. MANUFACTURING ESTABLISHMENTS (a): GROSS PRODUCT AT FACTOR COST (AVERAGE 1989-90 PRICES) (b) BY INDUSTRY CLASS (c), NORTHERN TERRITORY, 1989-90 TO 1992-93

			•		
ANZSI Code	C Description	1989-90 (\$m)	1990–91 (\$m)	1991–92 (\$m)	1992—9 (\$m
21	Food, beverage and tobacco mfg	32.3	28.8	27.8	29,
216	Bakery product mfg	n.p.	n.p.	n.p.	5.3
22	Textile, clothing, footwear and leather mfg	n.p.	1.7	1.8	2.0
222 2221	Textile product mfg	1.1	n.p.	n.p.	n.p
2221	Made-up textile product mfg	n,p.	1.0	1.1	. 1.0
23	Wood and paper product mfg	5.6	5.8	4.8	4.3
232	Other wood product mfg	5.6	5.8	4.8	4,2
2323	Wooden structural component mfg	5.2	5.6	4.5	3.8
2329	Wood product mfg n.c.c.	0.4	0.2	0.3	0.4
24	Printing, publishing and recorded media	16.7	14.4	13.0	13.3
241	Printing and services to printing	n.p.	n,p.	n.p.	n.p
2412	Printing	8.0	3.0	2.9	2,8
25	Petroleum, coal, chemical and associated product mfg	n.p.	2.7	3.5	3.8
256	Plastic product mfg	n.p.	n.p.	1.4	1.2
26	Non-metallic mineral product mfg	9.9	10.9	9.7	8.7
263	Cement, lime, plaster and concrete product mfg	n.p.	n.p.	9.6	n.p
2633	Concrete slurry mfg	3.3	3.2	3.5	3.1
2635	Concrete product mfg n.e.c.	4.6	4.3	n.p.	2.3
27	Metal product mfg	258.7	248.9	239.5	263.4
274	Structural metal product mfg	n,p.	n.p.	n.p.	n.p.
2741	Structural steel fabricating	5.9	4.7	4.4	4.9
2742	Architectural aluminium product mfg	3.3	3.2	2.5	n.p.
275	Sheet metal product mfg	n.p.	n,p,	n.p.	n.p.
2759	Sheet metal product mfg n.e.c.	2.9	5.4	3.1	n.p.
276	Fabricated metal product mfg	п.р.	n.p.	п.р.	
2769	Fabricated metal product mfg n.e.c.	1.5	n.p.	1.1	n.p. 0.8
28	Machinery and equipment mfg	4.3	6,5	9.3	8.6
281	Motor vehicle and part mfg	1.3	n.p.	л.р.	
2819	Automotive component mfg n.e.c.	1.3	n.p.	n.p.	n.p. n.p.
282	Other transport equipment mfg	n.p.	3.3	3.4	n s
2824	Aircraft mfg	n.p.	n.p	n.p.	n.p. 0.8
283	Photographic and scientific equipment mfg	0.4	0.4		
2832	Medical and surgical equipment mfg	0.4	0.4	n.p. 0.4	n.p. 0.5
285	Electrical equipment and appliance mfg	n.p.	n . p.	0.4	0.7
286	Industrial machinery and equipment mfg	0.7	1.1	1,0	0.8
2865	Lifting and material handling equipment mfg	n.p.	0.5	0.4	n.p.
29	Other manufacturing	2,7	2.1	2.0	1.7
294	Miscellaneous manufacturing	1.6	n.p.	n.p.	
949	Manufacturing n.e.c.	n.p.	n.p.	0.5	n.p. n.p.
	TOTAL MANUFACTURING				•

⁽a) See paragraph 8 of the Explanatory Notes. (b) See paragraphs 17 to 19 of the Explanatory Notes. (c) ANZSIC subdivisions plus these ANZSIC groups and ANZSIC classes with data available for publication have been shown in this table. Data for ANZSIC groups and ANZSIC classes that are not available for publication (due to confidentiality restrictions) have generally been excluded from this table, as have those categories to which no units were classified.

TABLE 6. MANUFACTURING ESTABLISHMENTS (4): SUMMARY OF OPERATIONS BY EMPLOYMENT SIZE, NORTHERN TERRITORY, 1992-93

是这个人,我们就是一个人,我们就是有一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,也是一个人,也是一个人

	Total Park	: :	,	•	7,5	7			5		74.	**************************************	Value added	Ratio of (e)—	_(e)_
•	at 30 June (b)	e (b)	at end of June (c)	neni ine (c)	rages and salaries (d)(e)	(a)(e)	Turnover (e)	ver (e)	adde	added (e)	expenditure (e)	ture (e)	employed	Vaive added	Wages and
Employment size group	(No.)	%	(No.) (%)	%)	(2m)	8	(\$m)	(%)	(Sm)	%	(Sm)	(%)	(3,000)	to turnover	value added
						TOTAL	, MANUF	TOTAL MANUFACTURING	,,,						
0-3 persons	49	28.7	102	3.7	2.8	3.0	12.7	8.1	5.9	8:	0.1	0.2	54.9	0.46	0.47
4–9 persons	99	38.6	383	14.0	6.6	10.6	43.6	6.2	18.3	5.7	8.0	2.4	47.2	0.42	0.54
I0-19 persons	34	19.9	463	16.9	11.4	12.3	65.1	9.3	21.0	9.9	1.6	5.0	45.4	0.32	0.54
20-49 persons	=	6.4	n p.	ď.	n.p.	п.р.	n.p.	ď.	n.p.	n.p.	n.p.	n.p.	ď.n	ď.	ďu
50-99 persons	7	4.	n.p.	n.p.	n.p.	n.p.	n. P.	ď.	n.p.	ď.	n.p.	п.р.	ď.n	n.p.	n.p.
Total less than 100 persons	168	98.7	и.р.	ďu	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	A.p.	n.p.	n.p.	п.р.	n.p.
100-199 persons	2	1.2	n.p	u.p.	n.p.	n.p.	n.p	ď.	n.p	ď	n.p.	n.p.	n.p	n.p.	n.p.
200-499 persons															I
500-999 persons	_	9.0	n.p.	n.p.	n,p	п.р.	п.р.	n.p.	n.p.	n.p.	n,p,	n.p.	n.p.	n.p.	n.p.
1000 or more persons	I	I	l	į		i	1	1	ļ				I	•	
Total 160 or more persons	æ	8.1	n.p.	иъ.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	п.р.	n.p.	n.p.	n.p.
Tota]	171	100.0	2,741	100.0	92.9	100.0	698.7	100.0	319.9	100.0	31.8	100.0	117.9	0.46	0.29

(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 may differ slightly from those presented in other tables, because they exclude those 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): RELATIVE STANDARD ERRORS (b) FOR SELECTED DATA FLEMS BY INDUSTRY SUBDIVISION NORTHERN TERRITORY, 1992–93
(%)

STATE OF THE PROPERTY OF THE P

Industr	Industry subdivision		Ĥ			
ANZSIC	ري	Employment at end of	Wages and			Value
opo	code Description	June (c)	salaries (d)	Turnover	Purchases	added
21	Food, beverage and tobacco mfg	7.2	5.2	5.3	4.0	7.0
73	Textile, clothing, footwear and leather mfg(e)	ļ			1	I
23	Wood and paper product mfg	6.7	3,9	2.5	2.4	3.2
74	Printing, publishing and recorded media	3,9	2,00	2.6	2.4	2.5
25	Petroleum, coal, chemical and associated product mfg(e)		1	i	1	
56	Non-metallic mineral product mfg	4.3	5.0	2.8	2.6	3,3
27	Metal product mfg	3,8	1.7	0.7	0.4	1.0
28	Machinery and equipment rnfg	8.0	6.0	9.0	0.3	6'0
53	Other manufacturing	4.8	4.2	3.4	4.2	4.0
21-29	21-29 Total manufacturing	2.2	4.1	1.1	6.8	1.3
				# CH		

(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.

APPENDIX: MANUFACTURING ESTABLISHMENTS (4): SELECTED OPERATIONAL STATISTICS BY INDUSTRY CLASS (b), NORTHERN TERRITORY, 1989-90 TO 1991-92 (c)

Industr	Industry class	Emple	Employment at end of June (d)	ne (d)		Turnover (e)		Value added (f)
ANZSIC	C Description	06-6861	16-0661	1991-92	1989–90	(mg)	1991–92	1989-90
21 216	Food, beverage and tobacco mfg Bakery product mfg	570 122	537 108	530	109.2 n.p.	1,99.1 n.p.	100.7 n.p.	38.4 n.p.
22 222	Textile, clothing, footwear and leather mfg Textile product mfg	n.p.	16 2	26 2	n.p.	85.8	6.2	n.p.
2221	Made-up textile product mfg	n.p.	4.6	43.	o'd'u	3. 86.	n.p. 4.2	n.p.
ដ	Wood and paper product mig	152	3	98	16.0	18.0	14.8	6.9
2323	Office wood product mig	132	155 155	98 5 98 5 98 5	16.0 14.9	(8.0 17.5	8 4 0 1 8	6.9 6.5
6757	wood product mtg n.e.c.	x o	6	17	1.0	9.0	9.0	0.5
77	Printing, publishing and recorded media	377	362	319	29.4	27.6	27.1	20.6
2412	Printing and services to printing Printing	n.p. 213	n.p. 112	n.p. 94	n.p. 14.6	n.p. 5.8	n.p. 5.4	n.p. 8.9
242 242]	Publishing Newspaper printing or publishing	d'u d'u	д.п .q.п	n.p. 215	n.p.	n.p. n.p.	n,p. .q.n	n.p.
25	Petroleum, coal, chemical and associated product mfg Plastic product mfg	ц. п .д.п	31. n.p.	70 44	d'u	6.5 n.p.	æ. ₽-`æ.	u.p. 0.0
363	Non-metalise mineral product infg Cement line elestes and concess and concess	38.	166	147	41.0	51.0	47.9	12.6
2633 2635	Concrete slury infig.	63 63 96	11.p. 47 74	747 80 n.p.	n.p. 18.1 10.1	n.p. 19.5 10.2	47.5 21.0 n.p.	пр. 4.5 8.7
27 271	Metal product infg Iron and steel infg	1,249 n.p.	1,188	1,104 n.p.	494.9 n.p.	488.6 n.p.	422.7 n.p.	265.2 n.p.
274 2741 2742	Structural metal product mfg Structural steel fabricating Architectural aluminium product mfg	п.р. 131 83	n.p. 151 85	178 103 n.p.	n.p. 20.0 12.6	n.p. 17.3 12.7	n.p. 16.2 10.2	n.p. 7.9
275 2759	Sheet metal product mfg n.e.c.	n.p. 94	n.p. 116	178 107	ብ ማ 8:8	n.p. 17,2	n.p. 10.5	n.p. 4.0
276 2769	Fabricated metal product mfg Fabricated metal product mfg n.e.c.	n.p. 51	.p.	40 n.p.	n.p. 5.1	n.p.	n.p. 4.4	n.p.

APPENDIX: MANUFACTURING ESTABLISHMENTS (A): SELECTED OPERATIONAL STATISTICS BY INDUSTRY CLASS (b), NORTHERN TERRITORY 1989-90 TO 1991-92 (c) continued

Constitution of the second sec

Industr	Industry class	Emple	Employment at end of June (d)	(p) at		Turnover (e)		Value added (1)
ANZSIC	ري		(No.)			(Sm)		(\$m)
Code	Code Description	1989–90	16-0661	1991–92	1989-90	16-0661	1991–92	1989-90
25 28	Machinery and equipment mfg Motor vehicle and nart mfg	159	239	283	12.1	19.0	28.0	5.7
2819	Automotive component mig n.e.c.	1 4	g. c.	ස් ස් ස් ස්	3.0 3.0	dia aib	du du	1.6
282 2824	Other transport equipment rufg Aircraft rufg	n.p. 23	106 n.p.	108 34	n.p. n.p.	9,4 n.p.	9,9 9,0	n.p.
283 2832	Photographic and scientific equipment mfg Medical and surgical equipment mfg	21 21	61 16	n.p. 20	0:1	1.0	пр. 1.2	0.5 0.5
285	Electrical equipment and appliance mfg	ďu	'n.p.	26	n.p.	пр	1.5	n.p.
286 2865	Industrial machinery and equipment mig Lifting and material handling equipment mig	23 n.p.	35 19	31 15	2.7 n.p.	4.2	3.8	0,9 n.p.
29 294 2949	Other manufacturing Miscellaneous manufacturing Manufacturing n.e.c.	84 0.p.	109 n.p. n.p.	103 n.p.	7.7 5.4 n.p.	5.6 .q.n .q.n	5.7 n.p. 1.8	3.4 2.5 n.p.
21–29	21-29 TOTAL MANUFACTURING	2,961	2,887	2,736	7.9.7	721.5	8.199	357.2

(a) See paragraph 8 of the Explanatory Notes. (b) ANZSIC subdivisions plus those ANZSIC classes with data available for publication have been shown in this table. Data for ANZSIC groups and ANZSIC classes that are not available for publication (due to confidentiality restrictions) have generally been excluded from this table, as have those categories to which no units were classified. (c) For comparability of data over the time periods shown, see paragraph 15 of the Explanatory Notes. (d) Includes working proprietors. (e) These data are at current prices and, therefore, do not discount the impact of price changes. (f) Value added data are not available for the years 1990—91 and 1991—92, as the data items

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 was collected.
- 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.
- 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.
- Data contained in this publication relate to all manufacturing businesses which operated in Northern Territory 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.

SCOPE AND COVERAGE

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 5% or less for Northern Territory estimates, as can be seen from the relative standard errors for the indicative data items contained in table 7 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 the subdivision 26 component).

GROSS PRODUCT AT FACTOR COST

17 Table 5 presents annual constant price estimates of gross product at factor cost for the years 1989–90, 1990–91, 1991–92 and 1992–93. 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 for each ANZSIC class is estimated 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, therefore, not taken into account in this publication. 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. The statistics in this table 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.

INTRODUCTION OF ANZSIC

21 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 9 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. The Appendix to 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

22 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

- 23 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

BACK DATA AND UNPUBLISHED STATISTICS

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

25 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.

26 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. These data can be purchased from the ABS in Canberra by contacting Paul Curran on (06) 252 6801.

ROUNDING

27 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
r	figure or series revised since previous issue
	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.

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.

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 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.

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.

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.

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
- 26 Non-metallic mineral product mfg
- 27 Metal product mfg
- 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 ie 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.

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 ie 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)

Turnover 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.

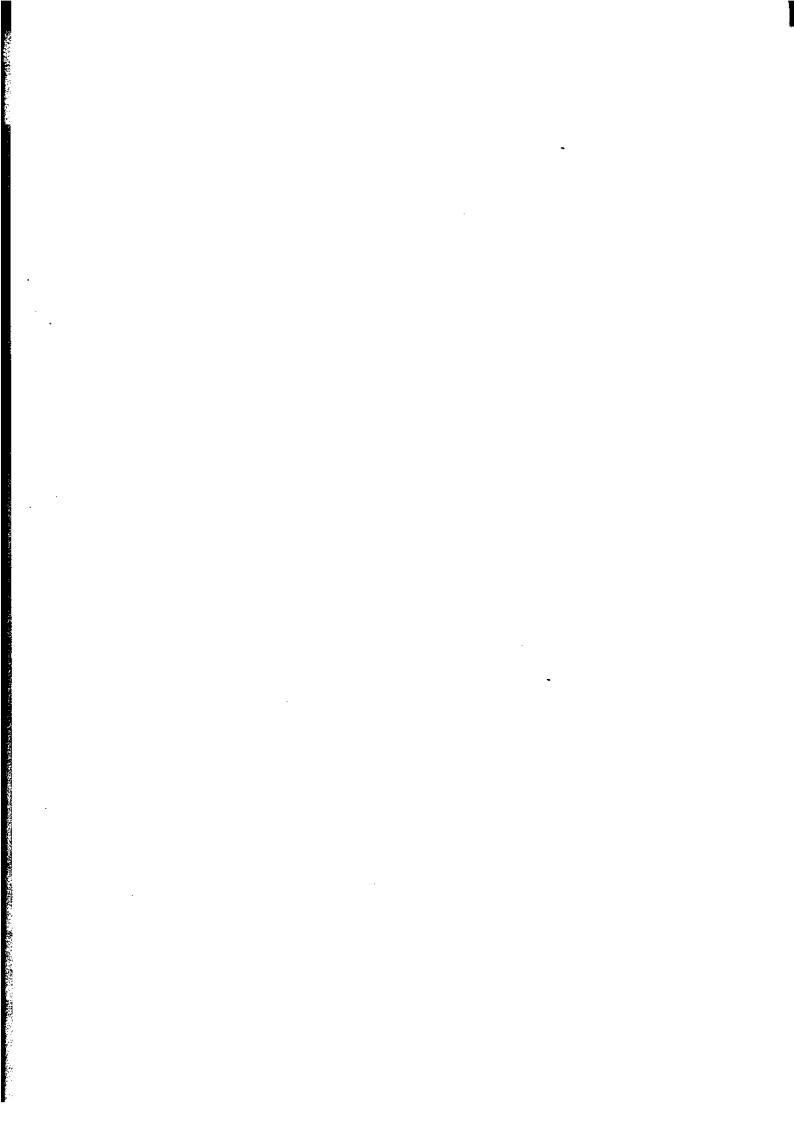
Wages and salaries

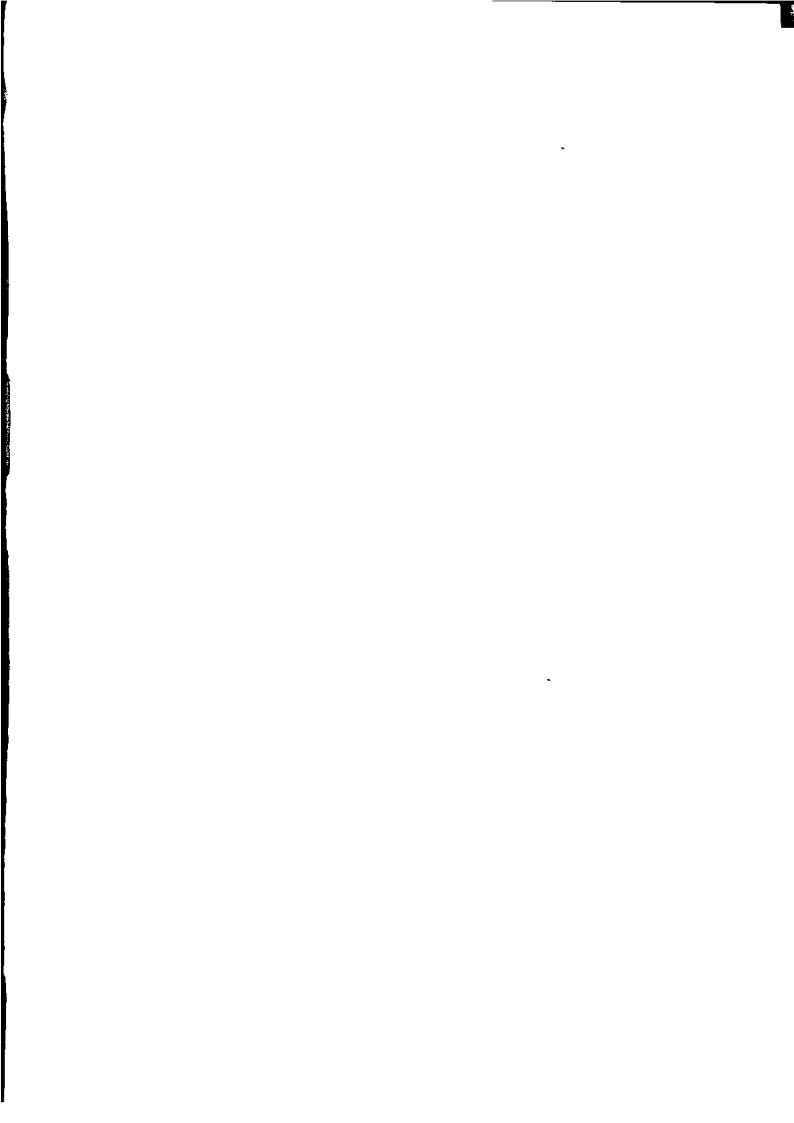
The gross wages and salaries of all employees of the establishment. The drawings of working proprietors are excluded.

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.





For more information . . .

The ABS publishes a wide range of statistics and other information on Australia's economic and social conditions. Details of what is available in various publications and other products can be found in the ABS Catalogue of Publications and Products available from all ABS Offices.

ABS Products and Services

Many standard products are available from ABS bookshops located in each State and Territory. In addition to these products, information tailored to the needs of clients can be obtained on a wide range of media by contacting your nearest ABS Office. The ABS also provides a Subscription Service for standard products and some tailored information services.

National Dial-a-Statistic Line

0055 86 400

Steadycom P/L: premium rate 25c/21.4 secs.

This number gives 24-hour access, 365 days a year, for a range of important economic statistics including the CPI.

Internet

http://www.statistics.gov.au

A wide range of ABS information is available via the Internet, with basic statistics available for each State, Territory and Australia. We also have Key National Indicators, ABS product release details and other information of general interest.

Sales and Inquiries

Keylink STAT.INFO/ABS

X.400 (C:Australia, PUB: Telememo, O:ABS, FN: STAT, SN:INFO)

Internet stat.info@abs.telememo.au

National Mail Order Service (06) 252 5249 Subscription Service 1800 02 0608

Information Inquiries Bookshop Sales

SYDNEY	(02)	268 4611	268 4620
MELBOURNE	(03)	9615 7755	9615 7755
BRISBANE	(07)	3222 6351	3222 6350
PERTH	(09)	360 5140	360 5307
ADELAIDE	(08)	237 7100	237 7582
HOBART	(002)	205 800	205 800
CANBERRA	(06)	252 6627	207 0326
DARWIN	(089)	432 111	432 111



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



ISSN 1035-8226