

VIOLORIZA

1991–92 Manufacturing Industry Victoria

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MANUFACTURING INDUSTRY VICTORIA 1991–92

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INQUIRIES

- for further information about statistics in this publication and the availability of related unpublished statistics. contact Mark Wise 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

This publication contains detailed industry statistics compiled from a census of manufacturing establishments conducted in respect of 1991–92 and some comparative statistics for earlier years. It provides more detailed information on manufacturing in Victoria than was published in the previous publications from this census—Manufacturing Industry, Australia, 1991–92. Preliminary (8201.0), which was released on 25 May 1993 and Manufacturing Industry. Australia, 1991–92 (8221.0), which was released on 21 February 1994.

The 1990-91 census data presented in this publication generally differ from those published in the 1990-91 issue of this publication. This is due to further processing of that year's data. All time series statistics presented in this publication show these revised data. Further details about the extent of these revisions can be obtained by contacting ABS NSW—see previous page for contact details.

For the 1991–92 manufacturing census, information on only employment, wages and salaries paid and turnover were collected. However, as with the 1990–91 census, the 1991–92 census also included some questions related to environmental protection by manufacturers. The environmental protection issues covered in 1991–92 were different to those covered in 1990–91. These data are presented in Table 6. Information at the ASIC class level showing both current and capital expenditure on environmental protection are presented in Table 7. This expands on the information collected in 1990–91.

This publication has also brought together data from sources other than the manufacturing census to provide a more complete picture of the manufacturing industry, as follows:

- Census of Population and Housing (1991) data are presented in Tables 2 and 3. This includes information on the characteristics of persons employed in the manufacturing industry.
- A concordance between the ASIC and ANZSIC industry classifications is presented in Table 9. For a detailed explanation of this concordance, see the introduction to Table 9.

The standard units definitions employed in the system of integrated economic censuses have undergone revisions, which were first reflected in the 1988–89 manufacturing census results. In the 1988–89 census, the revisions were partially in place on the ABS central business register. By the 1989–90 census, the revised units definitions were in place for all large businesses. The 1990–91 and 1991–92 census results reflect the full implementation of the revised units definitions.

Unpublished data

A-considerable amount of data from the manufacturing census exists in unpublished form. More detailed information to satisfy individual user requirements may be available on request. Further details can be obtained by contacting ABS NSW—see previous page for contact details.

SUMMARY OF FINDINGS

Overview

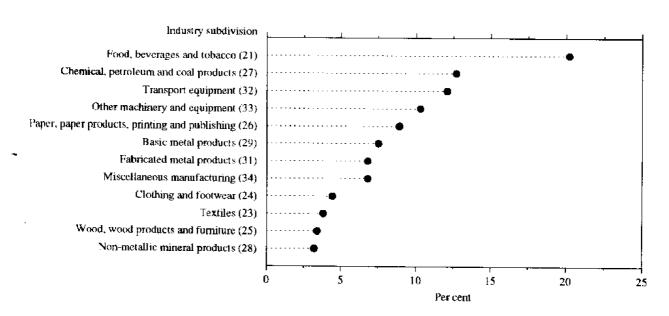
Tumover for the year 1991–92 by manufacturing establishments operating in Victoria was \$52,694.9 million. This represents a 3.5 per cent decrease, in current price terms, from the \$54,613,3 million in turnover recorded for the year 1990–91. Since the ABS began collecting integrated economic statistics (in respect of 1968–69), this is the first time that turnover at current prices for the manufacturing industry in Victoria has fallen compared to the previous year. Manufacturing employment at the end of June 1992 was 296,108, some 6.8 per cent lower than 12 months earlier. Since the ABS began collecting integrated economic statistics, this is also the first time that Victorian manufacturing employment has fallen below 300,000 persons.

Turnover (Tables 1 and 4)

The chart below ranks industry subdivisions from the largest to the smallest contributor for 1991–92 manufacturing turnover. Food, beverages and tobacco continues to be the largest contributor with 20,2 per cent of total turnover. Chemical, petroleum and coal products (12.7%) is now the second largest contributor, ahead of Transport equipment (12.1%). Non-metallic mineral products (3.2%) and Wood, wood products and furniture (3.4%) continue to be the smallest contributors to total turnover.

Turnover of manufacturing establishments decreased, in current price terms, by 3.5 per cent between 1990–91 and 1991–92. Nine industry subdivisions recorded decreases and three recorded increases. Miscellaneous manufacturing (up 3.8%—from \$3,439.2m to \$3,568.3m), Food, beverages and tobacco (up 1.6%—from \$10,503.7m to \$10,670.4m) and Textiles (up 0.5%—from \$1,967.7m to \$1,978.3m) recorded increases. The largest percentage decreases were recorded by Transport equipment (down 12.6%—from \$7,296.5m to \$6,373.7m) and Non-metallic mineral products (down 10.1%—from \$1,867.9m to \$1,679.4m).

DISTRIBUTION OF TURNOVER, VICTORIA, 1991-92



The percentage contribution by Victoria to total Australian manufacturing turnover in 1991–92 was 31.6 per cent. This represents a decrease of 0.5 percentage points on the contribution reported in 1990–91. The percentage contribution to turnover by the other States and Territories in 1991–92 was: New South Wales 34.7 per cent; Queensland 13.7 per cent; South Australia 9.3 per cent; Western Australia 7.7 per cent; Tasmania 2.4 per cent; the Northern Territory 0.4 per cent; and the Australian Capital Territory 0.3 per cent.

Longer term trends (1988-89 to 1991-92)

Turnover for the manufacturing industry in Victoria increased by 1.3 per cent over the period 1988-89 to 1991-92 in current price terms. While analyses of turnover data over the longer term in current prices are affected by movements in prices and quantities produced, some indications of relative growth across manufacturing industries can still be produced. Four industry subdivisions recorded increases and eight recorded decreases. Chemical, petroleum and coal products (up 51.8%—from \$4.401.7m to \$6.682.0m)(see paragraph 30 of the Explanatory Notes for comparability of these data over time) and Food, beverages and tobacco (up 9.5%—from \$9.747.4m to \$10.670.4m) showed the largest percentage growth in turnover over the period. The largest percentage decreases were recorded in Clothing and

footwear (down 16.0%—from \$2,766.4m to \$2,322.6m) and Transport equipment (down 15.3%—from \$7,527.2m to \$6,373.7m).

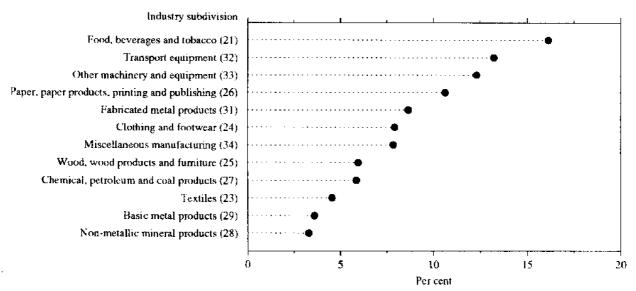
The percentage contribution by Victoria to total Australian turnover has decreased since 1988–89, decreasing 2.4 percentage points to 31.6 per cent. The only other State to decrease its percentage share was Tasmania (down 0.2 percentage points to 2.4%). The States to increase their percentage share of turnover were: Western Australia (up 0.8 percentage points to 7.7%); South Australia (up 0.7 percentage points to 9.3%); New South Wales (up 0.6 percentage points to 34.7%); and Queensland (up 0.5 percentage points to 13.7%). Both the Northern Territory (0.4%) and the Australian Capital Territory (0.3%) held their percentage share.

Employment (Tables 1 and 4)

Employment was more evenly distributed across industry subdivisions than was turnover, with Food, beverages and tobacco (16.1%) and Transport equipment (13.3%) once again being the major contributors to employment in the manufacturing industry. Non-metallic mineral products (3.3%) and Basic metal products (3.6%) remain the smallest contributors to employment in the manufacturing industry.

Manufacturing employment decreased by 6.8 per cent between June 1991 and June 1992. All 12 industry subdivisions recorded decreases in the level of employment over this period. Clothing and footwear (down 12.9%—from 26.906 persons to 23.423 persons) and Transport equipment (down 12.7%—from 44.967 persons to 39.247 persons) recorded the largest percentage decreases.

DISTRIBUTION OF EMPLOYMENT, VICTORIA, 1991–92

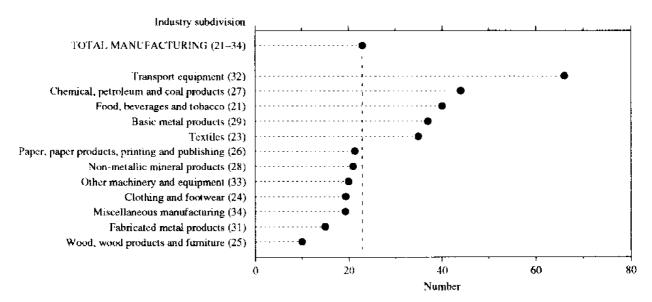


The percentage contribution by Victoria to total Australian manufacturing employment at the end of June 1992 was 32.7 per cent. This represents a decrease of 0.3 percentage points on the total contribution reported at the end of June 1991. The percentage contribution to total manufacturing employment by the other States and Territories at the end of June 1992 was: New South Wales 34.1 per cent; Queensland 13.5 per cent; South Australia 9.5 per cent; Western Australia 6.9 per cent; Tasmania 2.6 per cent; the Australian Capital Territory 0.4 per cent; and the Northern Territory 0.3 per cent.

On average, each manufacturing establishment in Victoria employed 23 persons at the end of June 1992, which continues the steady decline evident since June 1989 (when the average was 29 persons employed per establishment). The average fell by 2 persons over the period June 1991 to June 1992. Over the same period, however, the ratio of turnover per person employed has grown considerably. In 1988–89, the average turnover per person employed for all manufacturing establishments was \$139,000. By 1991–92, this had risen to \$178,000, a growth of 28.1 per cent. This is well above the 1.3 per cent increase in turnover and suggests significant productivity growth.

As the chart on the following page shows, the number of persons employed per establishment varied greatly across industry subdivisions, ranging from 10 persons for Wood, wood products and furniture to an average of 66 persons for Transport equipment.

PERSONS EMPLOYED PER ESTABLISHMENT, VICTORIA, 1991-92



Chemical, petroleum and coal products and Basic metal products comprised substantially larger shares of turnover than of employment, which resulted in these subdivisions recording substantially higher values of turnover per person employed than other subdivisions in the manufacturing industry (\$385,700 and \$370,200 respectively). Clothing and footwear recorded the lowest value for this ratio (\$99,200). Turnover per person employed for total manufacturing in 1991–92 was \$178,000. Various factors affect the magnitude of turnover per person employed. In general, industries which are labour intensive will record lower values of turnover per person employed than will those industries which are capital intensive. This ratio may also be influenced by commodity prices.

Longer term trends (June 1989 to June 1992)

Employment in the Victorian manufacturing industry decreased by 78,201 persons (down 20.9%—from 374,309 persons to 296,108 persons) over the period June 1989 to June 1992. All industry subdivisions recorded decreases over this period, with Clothing and footwear (down 39.6%—from 38,756 persons to 23,423 persons). Transport equipment (down 25.3%—from 52,545 persons to 39,247 persons) and Wood, wood products and furniture (down 24,4%—from 23,335 persons to 17,643 persons) recording the largest percentage decreases.

All States and Territories recorded decreases in manufacturing employment between June 1989 and June 1992. The largest decrease in both absolute and percentage terms was recorded by Victoria. The decreases recorded by the other States and Territories were: South Australia (down 17.7%—from 105,063 persons to 86.461 persons); the Northern Territory (down 16.8%—from 3.392 persons to 2,821 persons); New South Wales (down 16.6%—from 370,436 persons to 309,124 persons); Western Australia (down 16.1%—from 74,500 persons to 62,475 persons); Tasmania (down 14.6%—from 27,532 persons to 23,511 persons); Queensland (down 11.0%—from 137,479 persons to 122,424 persons); and the Australian Capital Territory (down 10.0%—from 4,099 persons to 3.691 persons).

The percentage contribution by Victoria to Australian manufacturing employment has declined since June 1989, decreasing by 1.5 percentage points to 32.7 per cent. South Australia (down 0.1 percentage points to 9.5%) also decreased its percentage share of employment over this period. States to show increases in their percentage share of employment over this period were: Queensland (up 1.0 percentage points to 13.5%); New South Wales (up 0.3 percentage points to 34.1%); Western Australia (up 0.1 percentage points to 6.9%); and Tasmania (up 0.1 percentage points to 2.6%). The Australian Capital Territory (0.4%) and the Northern Territory (0.3%) all held their percentage share of employment over this period.

1991 Census of Population and Housing (Tables 2 and 3)

The 1991 Census of Population and Housing provides additional information to the manufacturing census on the characteristics of persons employed in the manufacturing industry. It shows that employment at August 1991 among manufacturing sole proprietors and partnerships not employing others was 15.337. (Note: These persons are excluded from the scope of the manufacturing census—see paragraph 9 of the Explanatory Notes.) The population census also recorded 281,505 'other' persons employed in the manufacturing industry in Victoria at August 1991. (Note: Whilst these population census figures are conceptually similar to the data collected in the manufacturing census, there are many reasons why the data do not agree—see paragraphs 33 to 36 of the Explanatory Notes.)

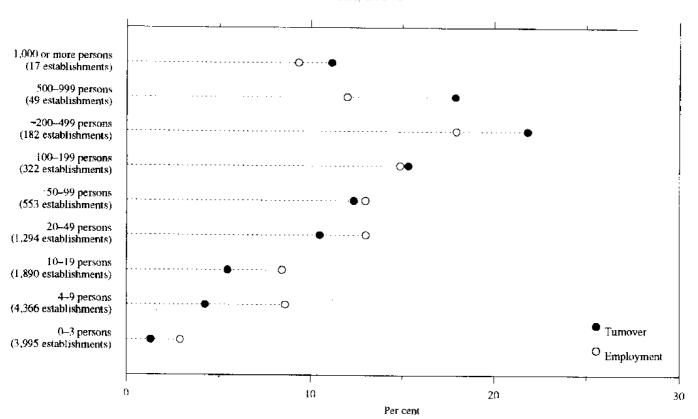
A breakdown of the age composition of persons employed in the manufacturing industry shows that it has a similar distribution as for all industries combined. However, there are relatively fewer young people working in manufacturing (16.4% aged 15–24 years compared with 19.2% for all industries) and slightly higher proportions of persons employed aged 25–34 years (28.0% compared with 27.1%) and 35–54 years (45.7% compared with 44.2%). The age distribution across the manufacturing industry subdivisions is more variable, but still broadly consistent with the average for all manufacturing industry. The major variations to this pattern were the younger employment recorded in Wood, wood products and furniture (where 24.4% of persons employed were in the age group 15–24 years, with 38.2% in the age group 35–54 years) and Chemical, petroleum and coal products (where the corresponding percentages were 11.0% and 49.3% respectively) where the average age of persons employed was much higher.

The proportion of those employed in the manufacturing industry who were male was 69.7 per cent, whilst females made up 30.3 per cent. These are substantial differences from the average for all industries (males—56.9%; females—43.1%), showing the significance of male employment in the manufacturing industry. The highest concentration of male employment in the manufacturing industry was in Basic metal products, where 87.3 per cent of persons employed were male. The highest incidence of female employment in the manufacturing industry was in Clothing and footwear, where 70.2 per cent of persons employed were female.

Employment size (Table 5)

Of the 12,668 manufacturing establishments operating at 30 June 1992, 570 were large establishments (employing 100 or more persons). While comprising only 4.5 per cent of all establishments, they accounted for 65.4 per cent of manufacturing turnover for 1991–92 and 54.1 per cent of employment at the end of June 1992. Although establishments employing 0–19 persons comprised 80.9 per cent of manufacturing establishments in Victoria at 30 June 1992, they accounted for only 11.3 per cent of turnover and 19.9 per cent of employment. There were 17 manufacturing establishments employing 1.000 or more persons at the end of June 1992. They employed 9.3 per cent of all persons working in the manufacturing industry in Victoria and contributed 11.4 per cent of all manufacturing turnover.

DISTRIBUTION OF MANUFACTURING TURNOVER AND EMPLOYMENT BY EMPLOYMENT SIZE VICTORIA, 1991–92

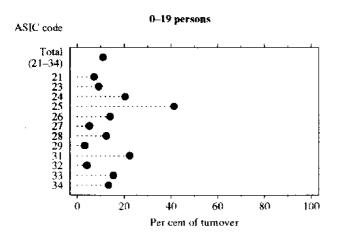


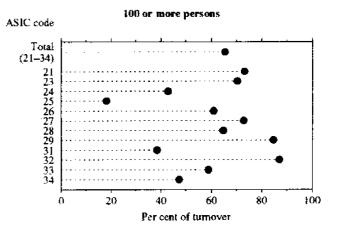
For 1991-92, the percentage distribution of turnover by employment size for the manufacturing industry was:

0–19 persons	11.3 per cent
20–49 persons	10.7 per cent
50–99 persons	12.6 per cent
100 or more persons	65.4 per cent

For eight of the 12 industry subdivisions, more than 50 per cent of turnover was contributed by large establishments (employing 100 or more persons). The industries where large establishments contributed most to turnover were the Transport equipment (86.9%) and Basic metal products (84.6%) industries. Small establishments (employing 0–19 persons) made relatively significant contributions to turnover for Wood, wood products and furniture (41.4%) and Fabricated metal products (22.4%).

DISTRIBUTION OF TURNOVER BY EMPLOYMENT SIZE AND INDUSTRY SUBDIVISION (a), VICTORIA, 1991-92

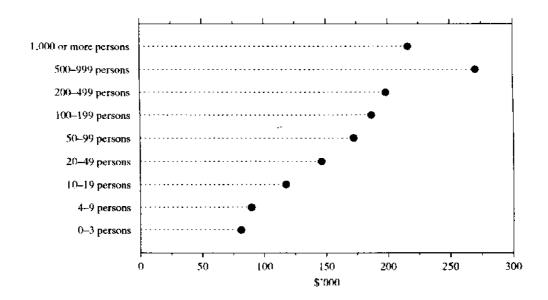




(a) Refer to graphs on pages 1 to 3 for ASIC subdivision descriptions.

Small establishments (employing 0-19 persons) displayed a much lower ratio of average turnover per person employed at the end of June 1992 (\$100,100) than establishments in the larger size categories. Large establishments (employing 100 or more persons) recorded an average turnover per person employed at the end of June 1992 of \$214,200, with establishments employing between 500 and 999 persons having a ratio of \$270,300. It should be remembered that the data include all manufacturing industries and that somewhat different patterns may emerge through analysis of individual industries.

TURNOVER PER PERSON EMPLOYED BY EMPLOYMENT SIZE, VICTORIA, 1991-92



Environmental protection (Tables 6 and 7)

General issues associated with environmental impact assessments or audits, return of containers or packaging, and marketing or production of goods or services relating to the environment.

The 1991-92 manufacturing census included questions related to environmental protection. The following three questions were asked of all manufacturers:

- During 1991–92, did this business conduct any environmental impact assessments (for proposed new production) or any environmental audits (on existing production processes)?
- Does this business permit and/or encourage the return of its own packaging (e.g. returnable bottles, cardboard boxes, polystyrene, etc.)?
- Does this business market or produce any goods or services for monitoring, maintaining or improving the environment?

In determining the proportion of the manufacturing industry for which these environmental issues are applicable, two measures have been calculated. The first is the proportion of establishments undertaking these activities to the total number of manufacturing establishments. The second measure is the proportion of total manufacturing turnover contributed by those establishments that reported a positive response to the environmental issues. For two of the three environmental issues raised, the percentage contribution to total turnover was higher than the proportion of total establishments for all industry subdivisions. This indicates that larger establishments generally make up a relatively higher proportion of manufacturing establishments involved in these environmental protection activities.

In all, 6 per cent of manufacturing establishments in Victoria reported conducting environmental impact assessments or audits in 1991–92. These establishments contributed 41 per cent of total manufacturing turnover, reflecting the substantially higher incidence of environmental impact assessments or audits being conducted by larger establishments. The highest proportion of establishments which conducted environmental impact assessments or audits occurred in Chemical, petroleum and coal products where 15 per cent of all establishments conducted these studies. Other industry subdivisions with a relatively high incidence of the conduct of these studies were: Food, beverages and tobacco (11%); Textiles (11%); and Transport equipment (10%). The lowest incidence of the conduct of environmental impact assessments or audits occurred in: Clothing and footwear (2%); Non-metallic mineral products (2%); and Wood, wood products and furniture (3%).

In terms of the proportion of total turnover covered by establishments conducting environmental impact assessments or audits, Transport equipment with 64 per cent was, by far, the highest, followed by Textiles (47%) and Chemical, petroleum and coal products (47%). The smallest contributions were recorded in Non-metallic mineral products (10%) and Clothing and footwear (15%).

Overall, 23 per cent of all manufacturing establishments permitted and/or encouraged the return of their own containers or packaging. Those establishments contributed 42 per cent of total manufacturing turnover. The highest incidence of the return of containers or packaging was reported in Chemical, petroleum and coal products, where 40 per cent of all establishments did so. Whilst the incidence of the return of containers or packaging was only 24 per cent of establishments in Transport equipment, those establishments were likely to be the larger ones, contributing 61 per cent of turnover, the highest of any industry subdivision. Similarly, the 25 per cent of establishments in Basic metal products which allowed the return of containers or packaging contributed 60 per cent of the industry's turnover.

Only 6 per cent of all manufacturing establishments reported that they were engaged in the marketing or production of goods or services for monitoring, maintaining or improving the environment. Those establishments contributed 5 per cent of total manufacturing turnover. The results show that the size of the businesses marketing or producing environmental goods or services varied depending on the industry subdivision. The incidence of larger businesses marketing or producing goods or services to monitor, maintain or improve the environment was high in Paper, paper products, printing and publishing (with the 11% of manufacturing establishments marketing or producing these goods or services contributing 18% of the industry's turnover) and Non-metallic mineral products (with the 7% of manufacturing establishments marketing or producing these goods or services contributing 14% of the industry's turnover). The incidence of smaller businesses undertaking these activities was high in Chemical, petroleum and coal products, where the 16 per cent of all establishments involved contributed only 6 per cent of the industry's turnover.

Expenditure on Environmental Protection

All manufacturers (with the exception of single establishment businesses with less than four persons employed) were also asked to provide information on their total current and capital expenditure related to environmental protection.

In selected industries, the following breakdowns were also requested:

- Current expenditure on environmental protection in respect of:
 - (i) Government and council fees, charges and taxes relating to pollution abatement and control;
 - (ii) Purchased services (e.g. payments to non-government contractors to remove and dispose of wastes); and
 - (iii) Other current expenditure on environmental protection,
- Current expenditure on environmental protection in respect of:
 - (i) Research and development carried out by individual businesses; and
 - (ii) Research and development carried out for individual businesses by other businesses.
- Current expenditure on environmental protection in respect of:
 - (i) Expenditure incurred on environmental impact assessments (for proposed new production);
 - (ii) Expenditure incurred on environmental audits (for existing production processes); and
 - (iii) Expenditure incurred on energy audits.
- Capital expenditure by individual businesses for new plant, machinery or equipment designed to abate or control
 water, hazardous and non-hazardous solid wastes, air, noise and other pollutants through:
 - (i) end-of-line techniques; and
 - (ii) change-in-production processes.

In 1991–92, total current expenditure by manufacturing establishments in Victoria on environmental protection was \$165.0m. This amounts to 0.3 per cent of the total manufacturing industry turnover for the year. Of the total current expenditure, 37.8 per cent was spent by manufacturers in just one industry subdivision—Chemical, petroleum and coal products (\$62.4m).

At the ASIC class level, the highest amount of current expenditure on environmental protection in 1991–92 was the \$21.2m spent by the Organic industrial chemicals n.e.c. (ASIC class 2754) industry, followed by the \$13.3m spent by the Pharmaceutical and veterinary products (ASIC class 2763) industry and the \$10.0m spent by the Synthetic resins and rubber (ASIC class 2753) industry. However, these amounts were very small relative to total turnover in each industry (7.9%, 1.7% and 0.9% respectively). For those classes available for publication, this ratio was highest in Organic industrial chemicals n.e.c. (7.9%). In by far the majority of the remaining industries, less than 1.0 per cent of total turnover for that industry was spent on ongoing environmental protection.

In 1991–92, reported total capital expenditure to abate pollution in Victoria was \$90.2m. Of this total expenditure, 61.1 per cent was spent by manufacturers in three industry subdivisions—Chemical, petroleum and coal products (\$21.9m), Basic metal products (\$18.2m) and Food, beverages and tobacco (\$15.1m).

At the ASIC class level, the largest amount of capital expenditure to abate pollution in 1991–92 for those classes available for publication occurred in the Iron and steel basic products (ASIC class 2941) industry, where \$6.6m was spent. Other industries with a relatively large capital expenditure on pollution abatement were: Motor vehicles (ASIC class 3231) (\$6.4m); Cheese (ASIC class 2123) (\$5.1m); and Synthetic resins and rubber (ASIC class 2753) (\$5.1m).

Further information on the environmental protection issues covered in the 1991–92 manufacturing census will be published in *Cost of Environment Protection*, Australia, 1991–92 (4603,0),

Regional manufacturing activity (Table 8)

The Melbourne Statistical Division continued to dominate manufacturing activity in Victoria in 1991–92. It contributed 81.4 per cent of all locations at 30 June 1992, 80.4 per cent of employment at the end of June 1992 and 75.9 per cent of turnover for 1991–92. The only other statistical division to contribute significantly was Barwon (5.3% of employment and 8.9% of turnover).

The Melbourne Statistical Division was also the leading contributor, by far, in all 12 industry subdivisions. For each subdivision, the Melbourne Statistical Division contributed more to employment, wages and salaries paid and turnover than did the rest of the State combined. The industry subdivision which contributed the most to Melbourne Statistical Division's turnover was Food, beverages and tobacco.

For the 10 remaining statistical divisions, a common feature was that a single industry subdivision generally dominated total manufacturing in that area. In nine of them (Barwon Statistical Division was the exception), the Food, beverages and tobacco industry subdivision contributed more than 35 per cent of total manufacturing turnover in the

statistical division. Of these, the statistical divisions that had the highest percentage contribution by Food, beverages and tobacco for their region were Mallee (84.6%) and Goulburn (70.6%).

An analysis of data from 1988-89 to 1991-92 shows that there has been a small change in the distribution of manufacturing activity between Melbourne Statistical Division and the Balance of Victoria. Melbourne Statistical Division's share of employment decreased by 0.3 percentage points to 80.4 per cent and its share of turnover fell by 3.3 percentage points to 75.9 per cent.

Australian and New Zealand Standard Industrial Classification (ANZSIC) (Table 9)

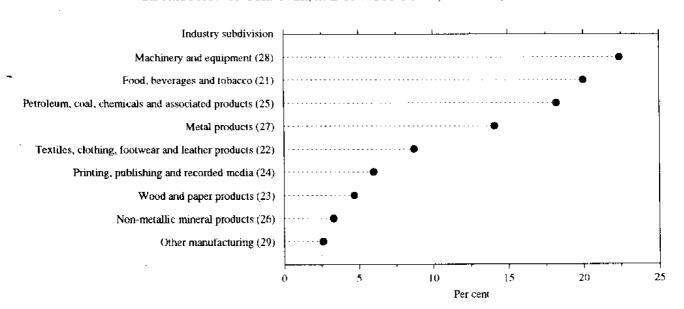
As explained in the introduction to Table 9, a new industry classification called the Australian and New Zealand Standard Industrial Classification (ANZSIC) is being introduced to replace the ASIC currently in use. Table 9 presents a concordance of data between those two industry classifications in respect of the 1991–92 reference year.

At the total manufacturing level, there is very little difference in the figures reported for Victoria under the two industry classifications. Under ANZSIC, there are 2.4 per cent fewer establishments in the manufacturing industry, 1.3 per cent fewer persons employed and 0.5 per cent less turnover than under ASIC. This is because, on balance, there are more establishments classified to industries other than manufacturing under ANZSIC than under ASIC.

The major differences between the two classifications becomes apparent in examining turnover at the industry subdivision level. As the chart below shows, under ANZSIC there are three large industry subdivisions, one intermediate sized industry subdivision and five industry subdivisions of a substantially smaller size. Under ASIC (for which there were 12 industry subdivisions), there was a more even distribution of turnover (as the chart on page 1 shows).

The chart below ranks ANZSIC industry subdivisions from the largest to the smallest contributor for 1991–92 manufacturing turnover. With the introduction of this new industry classification, Machinery and equipment is now the largest contributor to Victorian manufacturing industry turnover with 22.4 per cent of the total turnover. Food, beverages and tobacco (20.0%) is now the second largest contributor. These were followed by Petroleum, coal, chemicals and associated products (18.2%) and Metal products (14.1%). The remaining five industry subdivisions each contributed less than 9 per cent to total turnover, with Other manufacturing (2.6%) being the smallest.

DISTRIBUTION OF TURNOVER, ANZSIC SUBDIVISIONS, VICTORIA, 1991-92



Detailed tabulations of data included in this publication, classified according to ANZSIC, are available on request. The contact officer for these data is Mark Wise on Sydney (02) 268 4541.

TABLE 1. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY SUBDIVISION, VICTORIA 1988-89 TO 1991-92 (b)

	stry subdivision	Est	tablishments at 30 June	Employment at end of June	Wages and salaries	Tomerous	Persons	Turnove per perso
ASIC code			(c) (No.)	(d) (°000)	saiaries (e)(f) (\$m)	Turnover (f) (\$m)	employed per establishment (No.)	employe (j (\$'000
21	Food, beverages and tobacco	1991-92	1,198	47.8	1,376.8	10,670.4	40	
		1990-91 (g)	1,160	48.8	1,325.5	10,503.7	40 42	223.3 215.4
		1989-90	1,273	49.8	1,229.8	10,098.4	39	202.9
		1988-89	1,308	52.8	1,200.2	9,747.4	40	184.6
23	Textiles	1991-92	380	13.4	379.0	1,978.3	35	147.2
		1990-91 (g)	387	14.3	382.4	1,967.7	37	137.4
		1989-90 1988-89	376 370	15.5 17.6	391.3 401.5	2,008.8 2,119.3	41	129.8
24	Clothing and footwear	1001 00				•	47	120.6
	Crouring and rootwear	1991-92 1990-91 (g)	1,205 1,145	23.4	552.9	2,322.6	19	99.2
		1989-90	1,143	26.9 33.4	604.9 687.4	2,470.2	23	91.8
		1988-89	1,292	38.8	716.7	2,635.8 2,766.4	26 30	79.0 71.4
25	Wood, wood products and					_,	2*	71.4
	furniture	1991-92	1,856	17.6	417.2	1,787.6	10	101.3
		1990-91 (g)	1,920	19.3	462.8	1,944.9	10	101.0
		1989-90 1988-89	2,063	22.6	520.9	2,139.1	11	94.7
	_	1700-07	1,957	23.3	459.4	2,062.0	12	88.4
26	Paper, paper products, printing and publishing	1991-92	1 471					
	practing and phononing	1991-92 1990-91 (g)	1,471 1,457	31.5	1,033.4	4,693.2	21	149.1
		1989-90	1,437	33.1 35.7	1,061.3	4,729.9	23	143.1
		1988-89	1,420	38.2	1,031.7 996.2	4,642.7 4,791.7	24 27	130.2 125.3
:7	Chemical, petroleum and coal					,		120.5
	products	1991-92	396	17.3	658.2	6,682.0		
		1990-91 (g)	371	17.8	657.5	6,828.9	44 48	385.7 382.8
		1989-90	379	18.4	636.7	15,981.5	49	r325.0
		1988-89	387	19.2	588.5	4,401.7	50	229.4
8	Non-metallic mineral products	1991-92	464	9.7	328.7	1,679.4	21	172.3
	_	1990-91 (g)	464	10.7	354.6	1,867.9	23	175.0
		1989-90 1988-89	550 500	11.5 11.8	362.9 329.0	2,086.8 1,969.8	21 24	181.2
9	Basic metal products	1001 00					24	167.4
	Dasie metat products	1991-92 1990-91 (g)	288 270	10.7	394.7	3,948.9	37	370.2
		1989-90	270	11.4 12.3	427.8	4,085.4	42	358.1
	-	1988-89	275	13.1	414.4 391.0	3,915.8 3,930.5	45 48	318.7 299.8
1	Fabricated metal products	1991-92	1,749	36.7	70 4 0			2,7.0
		1990-91 (g)	1,810	25.7 28.2	734.3 808.9	3,570.3 3,797.1	15	139.2
		1989-90	1,920	33.7	877.4	4,144.2	16 18	134.7
		1988-89	1,758	33.8	789.7	3,754.0	19	123.0 111.2
2	Transport equipment	1991-92	598	39.2	1,211.5	6,373.7	66	162.4
		1990-91 (g)	578	45.0	1,506.1	7,296.5	78	162.4
		1989-90	596	51.0	1,425.1	7,934.7	86	155.5
		1988-89	572	52.5	1,313.3	7,527.2	92	143.3
ļ	Other machinery and equipment	1991-92	1,860	36.5	1,136.2	5,420.1	20	148.6
		1990-91 (g) 1989-90	1,816	39.0	1,216.7	5,681.9	21	145.8
		1988-89	1,881 1,799	42.5 46.4	1,157.7 1,155.2	5,366.6 5,608.1	23 26	126.4
	Miscellaneous manufacturing	1991-92	·			-	20	120.9
		1991-92 1990-91 (g)	1,203 1,195	23.2 23.3	704.2 702.6	3,568.3	19	8.671
		1989-90	1,273	24.7	702.6 644.8	3,439.2 3,353.2	19	147.7
		1988-89	1,281	26.8	629.1	3,342.1	19 21	135,9 124,5
-34	Total manufacturing	1991-92	12,668	296.1	8 077 1	53 KB4 0		
	5	1990-91 (g)	12,573	317.6	8,927.1 9,511.2	52,694.9 54,613.3	23 25	178.0
	₩ .	1989-90	13,362	350.9	9,380.2	r54,307.6	25 26	171.9 r154.8
		1988-89	12,919	374.3	8,969.8	52,020.2	29	139.0

⁽a) See paragraph 31 of the Explanatory Notes. (b) For comparability of data over the time periods shown, see paragraphs 27 to 30 of the Explanatory Notes. (c) See paragraphs 4 to 10 and 28 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) Data presented for 1990-91 have undergone extensive revision due to further processing of that year's data and, therefore, generally differ from those previously published.

TABLE 2. MANUFACTURING EMPLOYMENT INCLUDING SOLE PROPRIETORS AND PARTNERSHIPS NOT EMPLOYING OTHERS BY INDUSTRY SUBDIVISION, VICTORIA, 1991

		Manufacturing employment,	August 1991 (a)	
Industr ASIC code	y subdivision Description	parmerships not employing others		— Manufacturing census employment at end of June 1991 (b) (No.)
21	Food, beverages and tobacco	1,081	40,497	48,753
23	Textiles	521	12,954	14,326
24	Clothing and footwear	2,525	24,024	26,906
25	Wood, wood products and furniture	1,972	16,936	19,264
26	Paper, paper products, printing and publishing	1,547	30,917	33,051
27	Chemical, petroleum and coal products	338	16,169	17,839
28	Non-metallic mineral products	902	9,593	10,673
29	Basic metal products	173	9,840	11,407
31	Fabricated metal products	1,233	22,977	28,191
32	Transport equipment	639	35,528	44,967
33	Other machinery and equipment	1,355	35,327	38,979
34	Miscellaneous manufacturing	1,563	19,873	23,291
•	Manufacturing undefined (c)	1,488	6,870	25,271
21-34	Total manufacturing	15,337	281,505	317,647

⁽a) Source: 1991 Census of Population and Housing. (b) Includes working proprietors with employees. For an explanation of the differences between "Total other' and "Manufacturing census employment at end of June 1991", see paragraphs 18, 19 and 33 to 36 of the Explanatory Notes. (c) Those persons who indicated that they were employed in the manufacturing industry but the description given was insufficient to enable them to be attributed to a specific industry subdivision.

TABLE 3. DEMOGRAPHIC CHARACTERISTICS OF PERSONS EMPLOYED BY INDUSTRY SUBDIVISION VICTORIA, AUGUST 1991
(Per cent)

			P	roportion of i	industry		
Industry				Age gro	up (years)		
ASIC - code	Description	Males	Females	15-24	25-34	35-54	55 and over
	MANUFACTURING—						
21	Food, beverages and tobacco	67.1	33.0	19.0	28.1	43.6	9.3
23	Textiles	61.2	38.8	14.2	25.5	48.5	11.7
24 .	Clothing and footwear	29.8	70.2	13.8	26.3	50.2	9.7
25	Wood, wood products and furniture	80.7	19.3	24.4	27.7	38.2	9.7
26	Paper, paper products, printing and publishing	65.4	34.6	18.0	28.1	44.4	9.5
27	Chemical, petroleum and coal products	73.0	27.0	11.0	31.0	49.3	8.8
28	Non-metallic mineral products	82.4	17.6	12.2	28.1	47.4	12.3
29	Basic metal products	87.3	12.7	13.6	29.7	47.2	9.5
31	Fabricated metal products	79.9	20.1	17.2	26.3	44.6	11.9
32	Transport equipment	80.2	19.8	15.6	28.8	46.6	9.0
33	Other machinery and equipment	73.9	26.1	15.5	28.6	45.6	10.2
34	Miscellaneous manufacturing	70.4	29.6	15.2	28.6	46.5	9.7
	Manufacturing undefined (a)	75.6	24.4	16.7	27.0	45.3	11.0
21-34	Total manufacturing	69.7	30.3	16.4	28.0	45.7	9.9
01-99	ALL INDUSTRIES	56.9	43.1	19.2	27.1	44.2	9.6

Source: 1991 Census of Population and Housing.

⁽a) Those persons who indicated that they were employed in the manufacturing industry but the description given was insufficient to enable them to be attributed to a specific industry subdivision.

TABLE 4. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY CLASS VICTORIA, 1991-92

Indust	ry class	Establishments at 30 June	Employment at end of	Wages and		Persons	Turnove
ASIC		(b)	June (c)	salaries (d)	Turnover	employed per establishment	per person
code	Description	(No.)	(No.)	(\$m)	(\$m)	esiaousnmeni (No.)	employed (\$1000)
	FOOD, BEVERAGES AND TOBACCO			<u> </u>			
	Meat products—						
2115	Meat (except smallgoods or poultry)	90	5,180	148.4	1,127.9	58	217.7
2116	Poultry	31	1,959	41.0	272.3	63	139.0
2117	Bacon, ham and smallgoods n.e.c.	33	1,852	53.5	295.1	56	159.0
211	Total	154	8,991	242.9	1,695.2	58	188.5
	Milk products—				•		
2121	Liquid milk and cream	17	1,999	57.6	720.3	4.0	
2122	Butter	ii	1,230	38.1		118	360.3
2123	Cheese	27	2,967	76.0	541.0	112	439.8
2124	Ice cream and frozen confections	8	576		641.4	110	216.2
2125	Milk products n.e.c.	7	_	19.5	165.9	72	287.9
212	Total	70	812	26.3	284.3	116	3 5 0.1
		70	7,584	217.5	2,352.9	108	310.2
2121	Fruit and vegetable products—						
2131	Fruit products	33	1,560	57.8	530.9	47	340.3
2132	Vegetable products	27	2,291	77.6	561.0	85	244.9
213	Total	60	3,851	135.4	1,092.0	64	283.6
214	Margarine and oils and fats n.e.c.	10	n.p.	n.p.			
				н.р.	п.р.	n.p.	n.p.
2151	Flour mill and cereal food products—						
2151 2152	Flour mill products	6	493	n.p.	n.p.	82	n.p.
	Starch, gluten and starch sugars	4	160	n.p.	n.p.	40	n.p.
2153	Cereal foods and baking mixes	20	1,679	53.4	357.7	84	213.1
215	Total	30	2,332	75. 7	552.3	78	236.8
	Bread, cakes and biscuits						
2161	Bread	441	6,233	123.0	491.2	1.4	
2162	Cakes and pastries	124	2,611		481.3	14	77.2
2163	Biscuits	17	1,575	n.p.	п.р.	21	n.p.
216	Total	582	10,419	n.p. 226.9	n.p. <i>943.4</i>	93 <i>18</i>	n.p. 90.5
	Other food products—					10	90.5
2171	Raw sugar						
2173	Confectionery and cocoa products				_		_
2174	Processed scafoods	47	3,836	126.3	629.0	82	164.0
2175	Prepared animal and bird foods	17	436	9.6	85.5	26	196.0
2176	Food products n.e.c.	44	1,777	54.2	565.5	40	318.2
217	Total	83	3,066	86.1	762.7	37	248.8
	rotar	191	9,115	276.2	2,042.8	48	224.1
	Beverages and malt—						
2185	Soft drinks, cordials and syrups	23	1,329	n.p.	nn	50	
2186	Beer	3	1,305	n.p.	n.p.	58 435	n.p.
2187	Malt	9	n.p.	n.p.	n.p.	435	n.p.
2188	Wine and brandy	64	1,280	31.9	n.p. 280.2	n.p. 20	n.p.
2189	Alcoholic beverages n.e.c.	1	n.p.	n.p.		20	218.9
218	Total	100	4,136	145.5	n.p. 1,420.6	n.p. <i>41</i>	n.p. <i>343.5</i>
219	Tobacco products	1	# 21	==			
	_		n.p.	п.р .	n.p.	n.p.	n.p.
? I	Total food, beverages and tobacco	1,198	47,797	1,376.8	10,670.4	40	223.2

TABLE 4. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY CLASS VICTORIA, 1991-92—continued

Industr	ry class	Establishments	Employment at end of	Wages and		Persons	Turnovei
	y 1.1233	at 30 June	ui ena oj June	wages ana salaries		rersons employed per	I urnovei per person
ASIC		(b)	(c)	32121 les (d)	Turnover	establishment	per persor employed
code	Description	(No.)	(No.)	(\$m)	(\$m)	(No.)	(\$'000 ₁
	TEXTILES—						
	Textile fibres, yams and woven fabrics—						
2341	Cotton ginning	_		_	_	_	_
2342	Wool scouring and top making	14	510	17.2	73.6	36	144.3
2343	Man-made fibres and yarns	9	1,027	37.0	131.8	114	128.4
2344	Man-made fibre broadwoven fabrics	21	1,575	45.8	221.9	75	140.9
2345	Cotton yarns and broadwoven fabrics	21	1,149	30.6	122.4	55	106.5
2346 2347	Worsted yarns and broadwoven fabrics	8	856	20.5	120.9	107	141.3
2348	Woollen yams and broadwoven fabrics Narrow woven and elastic textiles	12	1,113	29.0	132.7	93	119.2
2349	Textile finishing	15 43	661	18.3	102.3	44	154.7
234	Total	43 143	1,313 8,204	39.9 238.1	165.9 7,071.5	31 57	126.4
		143	0,204	230.1	7,072.3	37	130.6
2351	Other textile products— Household textiles	27	40 0				
2352		37	692	n.p.	n.p.	19	n.p.
2352 2353	Textile floor coverings	49	2,379	68.8	509.0	49	214.0
2354	Felt and felt products Canvas and associated products n.e.c.	3 98	181	n.p.	n.p.	60	n.p.
2355	Rope, cordage and twine	90	718 380	14.3	64.2	7	89.5
2356	Textile products n.e.c.	41	890	13.2 22.7	58.3 151.0	42	153.3
235	Total	237	5,240	140.9	906.8	22 22	169.6 173.1
23	Total textiles	380	13,444	379.0	1,978.3	35	147.2
	CLOTHING AND FOOTWEAR—						
2441	Knitting mills— Hosiery	ńe	1.057			70	
2442	Cardigans and pullovers	28 64	1,957 1,124	n.p.	п.р.	70	n.p.
2443	Knitted goods n.e.c.	69	1,810	n.p. 53.0	n.p. 302.1	18 26	л.р. 166.9
244	Total	161	4,891	130.8	591.8	30	121.0
	Clothing						
2451	Men's trousers and shorts; work clothing	48	1,257	27.8	117.4	26	93.4
2452	Men's suits and coats; waterproof clothing	41	n.p.	п.р.	n.p.	n.p.	
2453	Women's outerwear n.e.c.	314	4,008	83.2	431.6	13	n.p. 107.7
2454	Foundation garments	6	n.p.	n.p.	n.p.	n.p.	n.p.
2455	Underwear and infants' clothing n.e.c.	69	3,093	79.6	284.1	45	91.9
2456	Headwear and clothing n.e.c.	454	4,097	80.0	368.8	9	90.0
245	Total	932	15,045	334.3	1,404.7	16	93.4
246	Footwear	172	3,487	87.8	326.0	31	93.5
24	Total clothing and footwear	1,205	23,423	552.9	2,322.6	19	99.2
	WOOD, WOOD PRODUCTS AND FURNIT	'URE—					
	Wood and wood products—						
2531	Log sawmilling	113	1,432	34.4	171.9	13	120.1
2532	Resawn and dressed timber	30	1,027	29.7	137.4	34	133.8
2533	Veneers and manufactured boards of wood	31	912	27.1	151.2	29	165.8
2534	Wooden doors	12	186	4.6	25.9	16	139.1
2535	Wooden structural fittings and joinery n.e.c.		3,350	79.8	316.5	8	94.5
1536 1537	Wooden containers Hardwood woodchips	43 2	n.p.	n.p.	n.p.	n.p.	n.p.
2538	Wood products n.e.c.	180	n.p. 1,043	п.р. 21.5	n.p. 76.4	n.p. 6	n.p. 73.3
253	Total	811	8,342	206.2	925.1	10	110.9
	Furniture and mattresses—						
2541	Furniture (except sheet metal)	1,006	8,225	181.8	726.1	8	88.3
542	Mattresses (except rubber)	39	1,076	29.2	136.4	28	126.8
54	Total	1,045	9,301	211.0	862.5	9	92.7

TABLE 4. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY CLASS VICTORIA, 1991-92—continued

Indusi	try class	Establishments	Employment	ts/ •			
		at 30 June	at end of June	Wages and salaries		Persons employed per	Turnove, per persoi
ASIC		(b)	(c)	(d)	Turnover	establishment	per persor employed
code	Description	(No.)	(No.)	(S m)	(\$ m)	(No.)	(\$1000)
	PAPER, PAPER PRODUCTS, PRINTING AND PUBLISHING—		<u> </u>				
	Paper and paper products—						
2631	Pulp, paper and paperboard	31	1,847	88.7	606.4	60	328.3
2632	Paper bags (including textile bags)	15	599	17.9	136.0	40	227.1
2633	Solid fibreboard containers	15	598	16.6	78.2	40	130.7
2634	Corrugated fibreboard containers	12	1,800	66.9	393.3	150	218.5
2635	Paper products n.e.c.	39	1,646	60.2	362.1	42	220.0
263	Total	112	6,490	250.3	1,576.0	58	242.8
	Printing and allied industries—						
2641	Publishing	183	2,171	68.8	418.9	10	
2642	Printing and publishing	155	6,711	229.7		12	193.0
2643	Paper stationery	107	3,447	97.5	718.7 522.3	43	107.1
2644	Printing and bookbinding	677	10,311	316.2		32	151.5
2645	Printing trade services n.e.c.	237	2,354	70.9	1,240.5	15	120.3
264	Total	1,359	24,994	783.1	216.8 3,117.2	10 <i>18</i>	92.1 124.7
26	Total name				2,7.1.1	15	224.7
20	Total paper, paper products, printing and publishing	1,471	31 404	7.622.4			
	- •	•	31,484	1,033.4	4,693.2	21	149.1
	CHEMICAL, PETROLEUM AND COAL Pl Basic chemicals—	RODUCTS—					
2751	Chemical fertilisers						
2752	Industrial gases	19	417	14.4	150.6	22	361.2
2753	Synthetic resins and rubber	2	n.p.	n.p.	n.p.	n.p.	n.p.
2754	Opennia in Anna in 1	44	2,979	138.0	1,171.1	68	393.1
2755	Organic industrial chemicals n.e.c.	30	563	20.4	271.5	19	482.2
275 275	Inorganic industrial chemicals n.e.c. Total	32	770	27.2	234.9	24	305.1
215	1 Oill	127	n.p.	n.p.	n.p.	n.p.	n.p.
	Other chemical products—						
2761	Ammunition, explosives and fireworks	8	1,382	53.3	165.3	173	1107
2762	Paints	41	1,820	55.1	514.1	44	119.6
2763	Pharmaceutical and veterinary products	37	3,528	124.2	804.7	95	282.5
2764	Pesticides	7	n.p.	n.p.		•	228.1
276 <u>5</u>	Soap and other detergents	66	1,458	47.2	n.p. 345.8	n.p.	n.p.
2766	Cosmetics and toilet preparations	25	497	14.2	99.6	22 20	237.2
2767	Inks	14	n.p.	n.p.		·	200.5
2768	Chemical products n.e.c.	48	1,069	37.9	n.p. 249.4	n.p.	n.p.
276	Total	246	10,578	357.2	2.424.5	22 43	233.3 229.2
77 -	Petroleum refining	13	n.p.		-•		
70	• •		n.p.	n.p.	n.p.	n.p.	n.p.
78	Petroleum and coal products n.e.c.	10	186	5.8	36.5	19	196.0
7	Total chemical, petroleum and coal products	396	17,326	658.2	6.682.0	44	385.7

TABLE 4. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY CLASS VICTORIA, 1991-92—continued

ASIC code		***	at end of	Wages and		Persons	Turnover
		at 30 June	June	salaries		employed per	per person
	Description	(b) (No.)	(c) (No.)	(d) (\$m)	Turnover (\$m)	establishment (No.)	employed (\$'000)
	<u>·</u>	· · ·			()	· · · · · · · · · · · · · · · · · · ·	
285	NON-METALLIC MINERAL PRODUCTS- Glass and glass products	 57	1,976	80 <i>3</i>	357. 2	35	180.8
200	Ouiss and grass products	57	1,970	803	3314	,,,	100.0
	Clay products and refractories—						
2861	Clay bricks	19	862	29.4	118.3	45	137.3
2862	Refractories	6	51	1.3	3.7	9	73.1
2863	Ceramic tiles and pipes	27	1,066	34.2	99.8	39	93.6
2864	Ceramic goods n.e.c.	68	823	21.6	80.4	12	97.7
286	Total	120	2,802	86.5	302.3	23	107.9
	Cement and concrete products—						
2871	Cement	3	n.p.	n.p.	n.p.	n.p.	n.p.
2872	Ready mixed concrete	63	804	25.3	261.1	13	324.8
2873	Concrete pipes and box culverts	14	n.p.	n.p.	n.p.	n.p.	n.p.
2874	Concrete products n.e.c.	111	1,542	41.2	202.4	14	131.3
287	Total	191	3,047	101.4	641.1	16	210.4
	Other non-metallic mineral products—						
2881	Plaster products and expanded minerals	16	527	15.3	128.3	33	243.5
2882	Stone products	50	333	8.4	35.1	7	105.5
2883	Glass wool and mineral wool products	13	750	28.0	151.2	58	201.7
2884	Non-metallic mineral products n.e.c.	17	312	8.9	64.1	18	205.5
288	Total	96	1,922	60.6	378.8	20	197.1
28	Total non-metallic mineral products	464	9,747	328.7	1,679.4	21	172.3
	BASIC METAL PRODUCTS						
	Basic iron and steel						
2941	Iron and steel basic products	101	3,806	136.2	1,718.3	38	451.5
2942	Iron casting	29	1,384	39.9	153.5	48	110.9
2943	Steel casting	33	624	19.3	68.4	19	109.7
2944	Iron and steel forging	14	142	5.2	16.0	10	112.4
2945	Steel pipes and tubes	17	475	15.7	86.3	28	181.7
294	Total	194	6,431	216.3	2,042.5	33	317.6
	Basic non-ferrous metals—						
2951	Copper smelting, refining						
2952	Silver, lead, zinc smelting, refining	<u></u>					
2953	Alumina	_	n.p.	n.p.	n.p.	n.p.	n.p.
2954	Aluminium smelting	4	1,652	D D	5 B	413	
2955		4	1,052	n.p.	n.p.	413	n.p.
2956	Nickel smelting, refining						
2957	Non-ferrous metals n.e.c. smelting, refining Secondary recovery and alloying	; 2	п.р.	n.p.	n.p.	n.p.	п.р.
	of non-ferrous metals n.e.c.	22	491	n.p.	n.p.	22	n.p.
295	Total	34	2,205	n.p.	n.p.	65	n.p.
	Non-ferrous metal basic products						
2961	Aluminium rolling, drawing, extruding	11	961	39.7	379.4	87	394.8
2962	Non-ferrous metals n.e.c. rolling,		y			- 7	
-,	drawing, extruding	14	563	n.p.	n.p.	40	n.p.
2963	Non-ferrous metal casting	35	507	15.8	62.6	14	123.5
296	Total	60	2,031	n.p.	n.p.	34	n,p.
29	Total basic metal products	288	10,667	394.7	3,948.9	<i>37</i>	370.2

TABLE 4. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY CLASS VICTORIA, 1991-92—continued

Indust	ry class	F . 131 1	Employment				
		Establishments at 30 June	at end of	Wages and		Persons	Turnove
ASIC		(b)	June (c)	salaries	т	employed per	per persor
code	Description	(No.)	(No.)	(d) (\$m)	Turnover (\$m)	establishment (No.)	employed (\$'000
	FABRICATED METAL PRODUCTS—					(,	(\$000)
	Structural metal products—						
3141	Fabricated structural steel	269	3,144	86.9	400 5		
3142	Architectural aluminium products	175	1,988	60.1	483.7	12	153.8
3143	Architectural metal products n.e.c.	96	1,015	26.8	261.1	11	131.3
314	Total	540	6.147	20.6 173.8	144.1	11	142.0
		3.0	0,147	1/3.0	888.9	11	144.6
	Sheet metal products—		•				
3151	Metal containers	35	2,024	68.8	547 A		
3152	Sheet metal furniture	42	778	22.2	567.0	58	280.1
3153	Sheet metal products n.e.c.	277	4,407	132.5	74.5	19	95.8
315	Total	354	7,209	223.5	656.2	16	148.9
		224	7,209	223.3	1,297.7	20	180.0
	Other fabricated metal products-						
3161	Cutlery and hand tools n.e.c.	111	1,263	29.4	1067		
3162	Springs and wire products	92	1,927	51.5	106.7	11	84.4
3163	Nuts, bolts, screws and rivers	42	1,367	31.3 47.7	273.3	21	141.8
3164	Metal coating and finishing	168	1,453		265.2	33	194.0
3165	Non-ferrous steam, gas and water fittings	27	1,344	36.1 38.0	130.0	9	89.5
3166	Boiler and plate work	40	400	38.0 12.0	134.7	50	100.2
3167	Metal blinds and awnings	27	219		44.8	10	111.9
3168	Fabricated metal products n.e.c.	348	4,325	4.6 117.5	25.1	8	114.5
316	Total	855	12,298	336.9	404.1	12	93.4
		033	12,290	330.9	1,383.7	14	112.5
31	Total fabricated metal products	1,749	25,654	734.3	3,570.3	15	139.2
	TRANSPORT EQUIPMENT—						
	Motor vehicles and parts—						
3231	Motor vehicles	40	15 100	400.4			
3232	Motor vehicle bodies, trailers, caravans	114	15,183	420.1	3,582.5	380	236.0
3233	Motor vehicle instruments and	114	1,510	36.7	188.8	13	125.1
	electrical equipment n.e.c.	27	3.890	120.0			
1234	Motor vehicle parts n.e.c.	268	9,703	122.2	566.2	144	145.6
23	Total	449	30,286	278.9	1,033.2	36	106.5
		777	30,200	857.9	5,370.8	67	177.3
	Other transport equipment—						
241	Ships	10	1,041				
242	Boats	58	568	n.p.	n.p.	104	n.p.
243	Railway rolling stock and locomotives	3	401	14.5	51.5	10	90.7
244	Aircraft	53	6,710	n.p. 200 4	n.p.	134	n.p.
245	Transport equipment n.e.c.	25	241	280.4	475.2	127	70.8
24	Total	149	8,961	n.p.	n.p.	10	n.p.
_		177	0,501	353.6	1,003.0	60	111.9
2	Total transport equipment	598	39,247	1,211.5	6,373.7	66	162.4

TABLE 4. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY INDUSTRY CLASS VICTORIA, 1991-92—continued

Industr	ry class	Establishments at 30 June	Employment at end of June	Wages and salaries		Persons employed per	Turnove
ASIC code	Description	at 30 June (b) (No.)	June (c) (No.)	saiories (d) (Sm)	Turnover (\$m)	employed per establishment (No.)	per person employed (\$'000)
COME			(140.)	(sm)	(SM)	(140.)	(3 000)
	OTHER MACHINERY AND SQUIPMENT-						
3341	Photographic, professional and scientific equi Photographic and optical goods	pmen— 25	1,063	41.7	316.8	43	298.0
3342	Photographic film processing	169	1,351	28.1	105.5	8	78.1
3343	Measuring, professional and	,	1,551	20.1	105.5	ō	70.1
	scientific equipment n.e.c.	88	1,812	62.1	216.3	21	119.4
334	Total	282	4,226	131.9	638.6	15	151.1
	Appliances and electrical equipment—						
3351	Radio and TV receivers; audio equipment	22	329	8.6	57.1	15	173.4
3352	Electronic equipment n.e.c.	203	6,647	240.4	1,369.8	33	206.1
3353	Refrigerators and household appliances	93	4,127	107.6	655.8	44	158.9
3354	Water heating systems	20	п.р.	n.p.	n.p.	n.p.	n.p.
3355 3356	Electric and telephone cable and wire	18	1,505	50.1	373.0	84	247.9
3357	Batteries Electrical machinery and equipment n.e.c.	2 240	n.p. 4,755	n.p. 146.9	n.p. 597.4	n.p.	n.p.
335	Total	598	4,733 17,847	564.8	3,108.9	20 30	125.6 174.2
	To descript the objective and the size of						
3361	Industrial machinery and equipment— Agricultural machinery	94	839	17.1	65.4	9	78.0
3362	Construction machinery	18	247	7.2	40.7	14	164.7
3363	Materials handling equipment	89	1,300	39.9	150.4	15	115.7
3364	Wood and metal working machinery	89	940	26.8	96.7	11	102.8
3365	Pumps and compressors	31	1,310	35.7	210.2	42	160.5
3366	Commercial space heating and cooling equi	pment 21	779	24.8	110.7	37	142.2
3367	Dies, saw blades and machine tool accessor	ies 172	2,505	76.5	217.9	15	87.0
3368	Food processing machinery	44	687	20.0	82.3	16	119.8
3369	Industrial machinery and equipment n.e.c.	422	5,789	191.5	698.2	14	120.6
336	Total	980	14,396	439.4	1,672.6	15	116.2
33	Total other machinery and equipment	1,860	36,469	1,136.2	5,420.1	20	148.6
	MISCELLANEOUS MANUFACTURING—						
	Leather and leather products—	2.1		200		0.7	
3451 3452	Leather tanning and fur dressing	34	902 439	26.3 9.3	193.3 37.7	27 10	214.4 85.9
3452 345	Leather and leather substitute goods n.e.c. Total	44 78	439 1,341	9.5 35.5	231.0	10 17	83.9 172.3
			-,-				
	Rubber products—						
3461	Rubber tyres, tubes, belts, hose and sheets	35	2,948	132.5	534.7	84	181.4
3462 346	Rubber products n.e.c. Total	42 77	1,452 <i>4,400</i>	37.6 170.2	186.8 721.5	35 57	128.7 164.0
340	Total	//	4,400	170.2	141.3	37	104.0
2 47 4	Plastic and related products—	71	0.460	117.4	2060	40	010.5
3471 2472	Flexible packaging and abrasive papers	71 7	3,463	116.4	735.9	49	212.5
3472	Rigid plastic sheeting	4	n.p.	n.p.	n.p.	n.p.	n.p.
3473 3474	Hard surface floor coverings n.e.c. Plastic products n.e.c.	406	n.p. 9,689	n.p. 282.3	n.p. 1,431.6	n.p. 24	л.р. 147.8
347	Total	488	13,701	417.0	2,264.7	28	165.3
	Other manufacturing—						
3481	Ophthalmic articles	22	95	2.1	7.9	4	83.6
3482	Jeweilery and silverware	123	913	18.7	108.4	7	118.7
3483	Brooms and brushes	12	116	2.6	12.7	10	109.8
3484	Signs and advertising displays	255	1,598	36.6	123.5	6	77.3
3485	Sporting equipment	42	441	10.1	50.1	11	113.5
3486	Writing and marking equipment	12	54	1.0	3.4	5	63.3
3487	Manufacturing n.e.c.	94	548	10.4	45.1	6	82.2
348	Total	560	3,765	81.5	351.1	7	93.3
	Total minedlaneous manufacturina	1,203	23,207	704.2	3,568.3	19	153.8
34	Total miscellaneous manufacturing	1,200			•		

⁽a) See paragraph 31 of the Explanatory Notes. (b) See paragraphs 4 to 10 of the Explanatory Notes. (c) Includes working proprietors. (d) Excludes the drawings of working proprietors.

TABLE 5. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY EMPLOYMENT SIZE AND INDUSTRY SUBDIVISION, VICTORIA, 1991-92

		Establishments Employm at 30 June (b) at end of Jun		-	<u>u</u>			Turnover (e)	
Employment size group	Number	Proportion (Per cent)	Number	Proportion (Per cent)	(Sm)	Proportion (Per cent)	(\$m)	Proportion (Per cent	
		FOOD, BEV	VERAGES A	ND TOBACCO)		· · -		
0 - 3 persons	202	16.9	488	1.0	6.9	0.5	45.4	0.4	
4 - 9 persons	432	36.1	2,581	5.4	40.1	2.9	233.9	2.2	
10 - 19 persons	237	19.8	3,172	6.6	62.5	4.6	497.3	4.7	
20 - 49 persons	147	12.3	4,251	8.9	100.3	7.3	851.9	8.0	
50 - 99 persons	82	6.8	5,535	11.6	155.7	11.3	1,227.2	11.5	
Total less than 100 persons	1,100	91.8	16,027	33.5	365.6	26.6	2,855.7	26.8	
100 - 199 persons	43	3.6	5,911	12.4	171.5	12.5	1,791.1	16.8	
200 - 499 persons	38	3.2	11,557	24.2	358.5	26.1	2,631.6	24.7	
500 - 999 persons	13	1.1	п.р.	n.p.	n.p.	n.p.	п.р.	n.p.	
1000 or more persons	4	0.3	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
Total 100 or more persons	98	8.2	31,770	66.5	1,008.3	73.4	7,799.0	73.2	
Total	1,198	100.0	47,797	100.0	1,373.8	100.0	10,654.8	100.0	
			TEXTILE:	S					
0 - 3 persons	81	21.3	175	1.3	2.7	0.7	18.3	0.9	
4 - 9 persons	135	35.5	807	6.0	16.1	4.3	86.3	4.4	
10 - 19 persons	49	12.9	648	4.8	13.8	3.7	73.9	3.8	
20 - 49 persons	47	12.4	1,371	10.2	35.4	9.5	189.3	9.6	
50 - 99 persons	22	5.8	1,634	12.2	45.3	12.1	214.0	10.9	
Total less than 100 persons	334	87.9	4,635	34.5	113.3	30.3	581.8	29.6	
100 - 199 persons	35	9.2	4,820	35.8	138.2	38.0	825.7	42.1	
200 - 499 persons	8	2.1	n.p.	n.p.	n.p.	n.p.	л.р.	п.р.	
500 - 999 persons	3	0.8	n.p.	n.p.	n.p.	п.р.	п.р.	n.p.	
1000 or more persons	_	_	_	_	_	<u> </u>		<u>P</u>	
Total 100 or more persons	46	12.1	8,809	65.5	261.0	69.7	1,380.6	70.3	
Total	380	100.0	13,444	100.0	374.3	100.0	1,962.4	100.0	
		CLOTHI	NG AND F	OOTWEAR	•				
0-3 persons	367	30.5	794	3.4	10.1	1.9	56.8	2.5	
4 - 9 persons	399	33.1	2,314	9.9	39.4	7.3	191.7	8.4	
10 - 19 persons	187	15.5	2,476	10.6	49.3	9.2	219.7	9.6	
20 - 49 persons	150	12.4	4,449	19.0	98.8	18.4	470.9	20.6	
50 - 99 persons	52	4.3	3,475	14.8	86.1	16.0	369.6	16.2	
Total less than 100 persons	1,155	95.9	13,508	57.7	283.7	52.7	1,308.8	57.2	
100 - 199 persons	31	2.6	4,144	17.7	101.2	18.8	393.2	17.2	
200 - 499 persons	17	1.4	n.p.	n.p.	п.р.	n.p.	n.p.		
500 - 999 persons	2	0.2	n.p.	n.p.	n.p.	n.p.	л.р.	n.p. n.p.	
1000 or more persons		_	-	<u>.</u>	<u>-</u>		_		
Total 100 or more persons	50	4.1	9,915	42.3	254.2	47.3	977,9	42.8	
Total	1,205	100.0	23,423	100.0	537.9	100.0	2,286.6	100.0	
	w	ood, wood i	PRODUCTS	AND FURNIT	URE				
0 - 3 persons	671	36.2	1,454	8.2	23.1	5.6	108.7	6.1	
4 - 9 persons	729	39.3	4,205	23.8	82.0	19.9	315.5	17.8	
10 - 19 persons	267	14.4	3,502	19.8	77.9	18.9	307.7	17.4	
20 - 49 persons	147	7.9	4,081	23.1	100.7	24.4	476.1	26.9	
50 - 99 persons	30	1.6	1,914	10.8	50.0	12.1	240.0	13.6	
Total less than 100 persons	1,844	99.4	15,156	85.9	333.7	80.8	1,448.0	81.9	
100 - 199 persons	6	0.3	942	5.3	29.5	7,1	117.2	6.6	
200 - 499 persons	6	0.3	1,545	8.8	50.0	12.1	203.7	11.5	
500 - 999 persons	_	_	_	_	_			_	
1000 or more persons Total 100 or more persons	<u></u>	0.6	 2,487	<u>—</u> 14.1	70.5	10.2			
_					79.5	19.2	320.9	18.1	
Total	1,856	100.0	17,643	100.0	413.3	100.0	1,768.9	100.0	

TABLE 5. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY EMPLOYMENT SIZE AND INDUSTRY SUBDIVISION, VICTORIA, 1991-92—continued

		ishments June (b)	Emplo at end of		Wage: salaries		Turno	ver (e)
Employment size group	Number	Proportion (Per cent)	Number	Proportion (Per cent)	(\$m)	Proportion (Per cent)	(\$m)	Proportion (Per cent,
	PAPER,	PAPER PROD	UCTS, PRIN	TING AND	PUBLISHING			
0 - 3 persons	455	30.9	964	3.1	17.6	1.7	76.2	1.6
4 - 9 persons	520	35.4	3,000	9.5	65.9	6.4	254.8	5.5
10 - 19 persons	231	15.7	3,033	9.6	76.2	7.4	321.8	6.9
20 - 49 persons 50 - 99 persons	151 64	10.3 4.4	4,431 4,461	14.1 14.2	125.7 138.7	12.3 13.5	558.0 608.4	12.0 13.1
Total less than 100 persons	1,421	96.6	15,889	50.5	424.1	41.4	1,819.2	39. <i>1</i>
100 - 199 persons	27	1.8	3,813	12.1	125.5	12.2	583.9	12.5
200 - 499 persons	15	1.0	4,299	13.7	173.4	16.9	937.6	20.1
500 - 999 persons	6	0.4	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
1000 or more persons	2	0.1	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
Total 100 or more persons	50	3.4	15,595	49.5	601.4	58.6	2,836.7	60,9
Total	1,471	100.0	31,484	100.0	1,025.5	100.0	4,655.9	100.0
	CH	EMICAL, PETR	OLEUM AN	D COAL PR	ODUCTS			
0 - 3 persons	87	22.0	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
4 - 9 persons	107	27.0	п.р. 890	n.p. 5.1	n.p. 24.3	n.p. 3.7	n.p. 275.6	n.p. 4.1
10 - 19 persons	66 55	16.7 13.9	889 1,761	10.2	24.3 60.8	3.7 9.3	637.0	4.1 9.6
20 - 49 persons 50 - 99 persons	40	10.1	2,718	15.7	106.0	16.2	769.6	11.5
Total less than 100 persons	355	89.6	6,176	35.6	210.0	32.0	1,806.1	27.1
100 - 199 persons	18	4.5	2,275	13.1	87.0	13.3	660.2	9.9
200 - 499 persons	19	4.8	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
500 - 999 persons	3	0.8	n.p.	n.p.	п.р.	n.p.	n.p.	n.p.
1000 or more persons	1	0.3	n.p.	n.p.	n.p.	n.p.	n.p. 4 eso e	n.p. 72.0
Total 100 or more persons	41	10.4	11,150	64.4	445.9	68.0	4,859.8	72.9
Total	396	100.0	17,326	100.0	655.9	100.0	6,665.9	100.0
		NON-METAL	LIC MINER	AL PRODUC	CTS			
0 - 3 persons	190	40.9	414	4.2	7.2	2.2	48.1 90.5	2.9
4 - 9 persons	143	30.8	844 593	8.7 6.1	17.5 16.5	5.3 5.0	90.3 67.6	5.4 4.0
10 - 19 persons	47 38	10.1 8.2	1,096	11.2	33.8	10.3	192.2	11.5
20 - 49 persons 50 - 99 persons	17	3.7	1,154	11.8	36.8	11.2	192.1	11.5
Total less than 100 persons	435	93.8	4,101	42.1	111.8	34.1	590.5	35.3
100 - 199 persons	19	4.1	2,573	26.4	85.3	26.0	498.7	29.8
200 - 499 persons	9	1.9	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
500 - 999 persons	1	0.2	n₊p.	n.p.	n.p.	n.p.	п.р.	n.p.
1000 or more persons Total 100 or more persons	29	6.3	5,646	57.9	215.9	65.9	1,083.3	64.7
Total	464	100.0	9,747	100.0	327.6	100.0	1,673.8	100.0
10001			METAL PR					
0 - 3 persons		29.2		n.p.	n.p.	n.p.	n.p.	n.p.
4 - 9 persons	91	31.6	п.р. n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	36	12.5	478	4.5	12.3	3.1	58.7	1.5
			1,159	10.9	36.6	9.3	211.4	5.4
10 - 19 persons	37	12.8		_	22.6	8.5	270.0	6.8
10 - 19 persons 20 - 49 persons	16	5.6	1,015	9.5	33.6			
10 - 19 persons 20 - 49 persons 50 - 99 persons				9.5 31.7	98.3	24.9	607.4	
10 - 19 persons 20 - 49 persons 50 - 99 persons Total less than 100 persons 100 - 199 persons	16 264 15	5.6 91.7 5.2	1,015 3,379 2,262	31.7 21.2	98.3 72.1	24.9 18.3	607.4 581.6	15.4 14.7
10 - 19 persons 20 - 49 persons 50 - 99 persons Total less than 100 persons 100 - 199 persons 200 - 499 persons	16 264 15 6	5.6 91.7 5.2 2.1	1,015 3,379 2,262 n.p.	31.7 21.2 n.p.	98.3 72.1 n.p.	24.9 18.3 n.p.	607.4 581.6 n.p.	<i>15.4</i> 14.7 n.p.
10 - 19 persons 20 - 49 persons 50 - 99 persons Total less than 100 persons 100 - 199 persons 200 - 499 persons 500 - 999 persons	16 264 15 6 2	5.6 91.7 5.2 2.1 0.7	1,015 3,379 2,262 n.p. n.p.	31.7 21.2 n.p. n.p.	98.3 72.1 n.p. n.p.	24.9 18.3 n.p. n.p.	581.6 n.p. n.p.	15.4 14.7 n.p. n.p.
	16 264 15 6	5.6 91.7 5.2 2.1	1,015 3,379 2,262 n.p.	31.7 21.2 n.p.	98.3 72.1 n.p.	24.9 18.3 n.p.	607.4 581.6 n.p.	15.4 14.7 n.p. n.p. n.p. 84.6

TABLE 5. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY EMPLOYMENT SIZE AND INDUSTRY SUBDIVISION, VICTORIA, 1991-92—continued

		shments une (b)		yment June (c)		es and s (d) (e)	Turno	ver (e)
Employment size group	Number	Proportion (Per cent)	Number	Proportion (Per cent)	(Sm)	Proportion (Per cent)	(\$m)	Proportion (Per cent
		FABRICA"	TED METAL	PRODUCTS				
0 - 3 persons	596	34.1	1,250	4.9	21.7	3.0	92.3	2.6
4 - 9 persons	636	36.4	3,731	14.5	85.2	11.7	343. 6	9.7
10 - 19 persons	260	14.9	3,434	13.4	88.7	12.2	360.0	10.1
20 - 49 persons	150	8.6	4,475	17.4	120.0	16.5	520.5	14.7
50 - 99 persons	62	3.5	4,539	17. 7	143.5	19.8	873.2	24.6
Total less than 100 persons	1,704	97.4	17,429	67.9	459.2	63.3	2,189.6	61.6
100 - 199 persons	33	1.9	4,357	17.0	137.9	19.0	710.5	20.0
200 - 499 persons	11	0.6	n.p.	n.p.	п.р.	n.p.	n.p.	n.p.
500 - 999 persons	1	0.1	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
1000 or more persons		_						
Total 100 or more persons	45	2.6	8,225	32.1	266.4	36.7	1,362.1	38.4
Total	1,749	100.0	25,654	100.0	725.6	100.0	3,551.6	100.0
		TRAN	SPORT EQU	JIPMENT				
0 - 3 persons	163	27.3	362	0.9	6.8	0.6	42.4	0.7
4 - 9 persons	197	32.9	1,137	2.9	25.0	2.1	110.0	1.7
10 - 19 persons	86	14.4	1,144	2.9	27.2	2.3	107.2	1.7
20 - 49 persons	63	10.5	1,996	5.1	52.1	4.3	246.4	3.9
50 - 99 persons	30	5.0	2,242	5.7	66.9	5.6	319.5	5.1
Total less than 100 persons	539	90.1	6,881	17.5	177.9	14.8	825.6	13.1
100 - 199 persons	24	4.0	3,249	8.3	95.7	8.0	572.2	9.1
200 - 499 persons	15	2.5	4,845	12.3	146.4	12.2	458.6	7,3
500 - 999 persons	12	2.0	8,706	22.2	298.0	24.9	1,697.8	26.9
1000 or more persons	8	1.3	15,566	39.7	481.1	40.1	2,761.5	43.7
Total 100 or more persons	59	9,9	32,366	82.5	$I_{i}02I_{i}I_{i}$	85.2	5,490.0	86.9
Total	598	100.0	39,247	100.0	1,199.1	100.0	6,315.6	100.0
		OTHER MAC	TIINERY AI	ND EQUIPMEN	T			
0 - 3 persons	661	35.5	1,418	3.9	25.8	2.3	111.0	2.0
4 - 9 persons	600	32.3	3,495	9.6	80.2	7.1	302.6	5.6
10 - 19 persons	279	15.0	3,662	10.0	101.1	8.9	420.7	7.8
20 - 49 persons	172	9.2	5,285	14.5	156.7	13.8	630.7	11.6
50 - 99 persons	76	4.1	5,162	14.2	168.1	14.8	762.6	14.1
Total less than 100 persons	1,788	96.1	19,022	52.2	531.8	46.9	2,227.6	41.1
100 - 199 persons	45	2.4	6,287	17.2	211.9	18.7	911.0	16.8
200 - 499 persons	22	1.2	6,537	17.9	219.1	19.3	1,232.8	22.8
500 - 999 persons	4	0.2	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
1000 or more persons Total 100 or more persons	1 72	0.1 3.9	n.p. <i>17,447</i>	n.p. 47.8	n.p. 603.1	n.p. 53.7	n.p. 3,187.5	n.p. 58.9
	1,860	100.0	36,469	100.0	1,134.9	100.0	5,415.1	100.0
Total	1,000		······	NUFACTURINO		100.0	- 5,115.1	1000
							// ^	
0 - 3 persons	438	36.4	945	4.1	14.8	2.1 6.3	66.3 191.3	1.9 5.4
4 - 9 persons	377	31.3	2,161 1,917	9.3 8.3	4 4.3 47.7	6.8	222.2	5.4 6.2
10 - 19 persons 20 - 49 persons	145 137	12.0 11.4	4,102	17.7	117.0	16.6	634.1	17.8
20 - 49 persons 50 - 99 persons	62	5.1	4,102	19.6	134.3	19.1	767.8	21.6
Total less than 100 persons	1,159	96.3	13,682	59.0	358.0	50.9	1,881.8	52.8
100 - 199 persons	26	2.2	3,404	14.7	104.8	14.9	566.8	15.9
200 - 499 persons	16	1.3	n.p.	n.p.	n.p.	n.p.	n.p.	n.p
500 - 999 persons	2	0.2	п.р.	n.p.	n.p.	n.p.	n.p.	n.p.
1000 or more persons		_	_					_
Total 100 or more persons	44	3.7	9,525	41.0	345.5	49.1	1,679.9	47.2

TABLE 5. MANUFACTURING ESTABLISHMENTS (a): SUMMARY OF OPERATIONS BY EMPLOYMENT SIZE AND INDUSTRY SUBDIVISION, VICTORIA, 1991-92—continued

		Establishments at 30 June (b)		Employment at end of June (c)		Wages and salaries (d) (e)		Turnover (e)	
Employment size group	Number	Proportion (Per cent)	Number	Proportion (Per cent)	(Sm)	Proportion (Per cent)	(\$m)	Proportion (Per cent)	
		TOTA	L MANUFA	CTURING					
0 - 3 persons	3,995	31.5	8,615	2.9	143.2	1.6	698.2	1.3	
4 - 9 persons	4,366	34.5	25,459	8.6	524.0	5.9	2,278.9	4.3	
10 - 19 persons	1,890	14.9	24,948	8.4	597.4	6.7	2,932.5	5.6	
20 - 49 persons	1,294	10.2	38,457	13.0	1,037.9	11.7	5,618.6	10.7	
50 - 99 persons	553	4.4	38,406	13.0	1,165.0	13.1	6.613.9	12.6	
Total less than 100 persons	12,098	95.5	135,885	45.9	3,467.4	39.1	18,142.J	34.6	
100 - 199 persons	322	2.5	44,037	14.9	1,365.1	15.4	8,212.0	15.7	
200 - 499 persons	182	1.4	53,091	17.9	1,804.8	20.4	10,536.4	20.1	
500 - 999 persons	49	0.4	35,487	12.0	1,281.8	14.5	9,591.4	18.3	
1000 or more persons	17	0.1	27,608	9.3	946.5	10.7	5,977.9	11.4	
Total 100 or more persons	570	4.5	160,223	54.1	5,398.3	60.9	34,317.7	65.4	
Total	12,668	100.0	296,108	100.0	8,865.6	100.0	52,459.8	100.0	

⁽a) See paragraphs 31, 32 and 37 of the Explanatory Notes. (b) See paragraphs 4 to 10 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 1991-92 but were not operating at 30 June 1992. See paragraph 37 of the Explanatory Notes.

TABLE 6. MANUFACTURING ESTABLISHMENTS (a): ENVIRONMENTAL PROTECTION ISSUES (b), SUMMARY STATISTICS BY INDUSTRY SUBDIVISION VICTORIA, 1991-92

		er	Establishments that conducted environmental impact assessments or environmental audits	onducted 18sessments audits	Estab L Co	Establishments that encouraged the return of their own containers or packaging	raged n 18	Establ marketin, services y	Establishments engaged in the marketing or production of goods or services for monitoring, maintaining or improving the environment	she oods or saning eni
Industry	Industry subdivision (c)		Proportion of total	Proportion of total		Proportion of total	Proportion of total		Proportion of total	Proportion of total
ASIC	Description	Number	estaotishments (d)	iurnover (e) (Per cent)	Number	establishments (d) (Per cent)	(e) (Per cent)	Number	establishments (d) (Por cent)	furnover (e) (Per cent)
21	Fox beverages and robacco	130		46	250	21	36	36	,	
131	Textiles	42	: ::	47	111	 29	33 8	3 4	1 4	·ve
54	Clothing and footwear	30	7	15	228	; «	30	•	٠,	'
25	Wood, wood products and furniture	58	60	17	283	15	21	36	5	-
56	Paper, paper products, printing and publishing	73	3	39	461	31	47	171	=	18
27	Chemical, petroleum and coal products	9	1.5	47	163	40	3 9	98	16	9
58	Non-metallic mineral products	11	2	01	128	27	40	33	7	14
59	Basic metal products	23	œ	4	74	22	96	19	9	-
31	Fabricated metal products	91	*	37	405	23	42	108	9	9
35	Transport equipment	58	10	2	146	24	61	37	9	€€1
33	Other machinery and equipment	100	ĸ	36	403	22	32	176	6	7
34	Miscellaneous manufacturing	55	ξ	22	355	29	43	83	. 0 0	12
21-34	Total manufacturing	730	9	41	3,007	23	42	785	3 0	ď

(a) See paragraph 31 of the Explanatory Notes. (b) See paragraph 38 of the Explanatory Notes. Establishments which did not respond to the environmental protection issues are treated as not participating in the relevant issue. (c) Data are also available on request by ASIC class. (d) Proportion of total establishments which operated at any time during 1991-92. (e) See paragraph 24 of the Explanatory Notes.

Note: The 1991-92 manufacturing census included a number of questions related to environmental protection. The following three questions were asked of all manufacturers:

Dung 1991-92, did this business canduct any environmental impact assessments (for proposed new production) or any environmental audits (on existing production processes)?
 Does this business permit and/or encourage the return of its own containers or packaging (eg returnable bottles, cardboard boxes, polystyrene, etc)?
 Does this business market or produce any goods or services for monitoring, maintaining or improving the environment?

TABLE 7. MANUFACTURING ESTABLISHMENTS (a): EXPENDITURE ON ENVIRONMENTAL PROTECTION (b) BY INDUSTRY CLASS, VICTORIA, 1991-92

			ent expenditure on onmental protection	
ASIC	ry class		Proportion of total turnover (c)	Capita expenditure t abate pollutio
code	Description	(\$'000)	(Per cent)	(\$'000
	FOOD, BEVERAGES AND TOBACCO—			
	Meat products			
2115	Meat (except smallgoods or poultry)	3,356	0.3	1,42
2116	Poultry	736	0.3	109
2117	Bacon, ham and smallgoods n.e.c.	580	0.2	8'
211	Total	4,672	0.3	1,617
	Milk products—			
2121	Liquid milk and cream	781	0.1	n.p
2122	Butter	263	0.1	2,45
2123	Cheese	786	0.1	5,08
2124	Ice cream and frozen confections	n.p.	n.p.	5,00-
2125	Milk products n.e.c.	n.p.	n.p.	
212	Total	2,245	0.1	n.p 8,23:
			5.2	0,22.0
0121	Fruit and vegetable products-			
2131	Fruit products	1,653	0.3	833
2132	Vegetable products	783	0.1	220
213	Total	2,436	0.2	1,057
214	Margarine and oils and fats n.e.c.	n.p.	n,p,	n.p
	Flour mill and cereal food products			
2151	Flour mill products	n.p.	n.p.	n.p
2152	Starch, gluten and starch sugars	n.p.	п.р.	
2153	Cereal foods and baking mixes	536	0.2	n.p
215	Total	868	0.2	124
	Bread, cakes and biscuits—			
2161	Bread	568	0.1	22
2162	Cakes and pastries	244	n.p.	
2163	Biscuits	57	n.p.	n.p
216	Total	869	0.1	n.p 206
	Other food products—			
2171	Raw sugar	_		_
2173	Confectionery and cocoa products	787	0.1	1,169
2174	Processed seafoods	99	0.1	123
2175	Prepared animal and bird foods	531	0.1	661
2176	Food products n.e.c.	2,050	0.3	497
217	Total	3,467	0.2	2,450
	Beverages and malt-			
2185	Soft drinks, cordials and symps	372	71 PA	799
2186	Beer	n.p.	л.р. п.р.	
2187	Malt	n.p.	n.p.	п.р.
2188	Wine and brandy	139	n.p. 0.1	n.p. 159
2189	Alcoholic beverages n.e.c.			
218	Total	п.р. 1, 248	n.p. 0.1	n.p. 1,230
219	Tobacco products	n.p.	н.р.	n.p.
,,	Total food houseness and takes	-		
21	Total food, beverages and tobacco	16,507	0.2	15,055

TABLE 7. MANUFACTURING ESTABLISHMENTS (a): EXPENDITURE ON ENVIRONMENTAL PROTECTION (b) BY INDUSTRY CLASS, VICTORIA, 1991-92—continued

Industr	ry class		ent expenditure on onnental protection	a
	y cuss		Proportion of	Capital expenditure to
ASIC code	Description	(\$'000)	total turnover (c) (Per cent)	abate pollution (\$'000)
	TEXTILES			
	Textile fibres, yarns and woven fabrics—			
2341	Cotton ginning			
2342	Wool scouring and top making	2,743	3.9	. 667
2343 2344	Man-made fibres and yarns Man-made fibre broadwoven fabrics	408	0.3	n.p.
2345	Cotton yarns and broadwoven fabrics	938 529	0.4 0.4	п.р 86
2346	Worsted yarns and broadwoven fabrics	127	0.1	n.p.
2347	Woollen yarns and broadwoven fabrics	167	0.1	п.р.
2348	Narrow woven and elastic textiles	51	0.1	n.p.
2349	Textile finishing	314	0,2	189
234	Total	5,277	0.5	1,335
2052	Other textile products—			
2351 2352	Household textiles	n.p.	n.p.	n.p.
2352 2353	Textile floor coverings	687	0.1	33
2354	Felt and felt products Canvas and associated products n.e.c.	n.p. 45	n.p. 0.1	n.p.
2355	Rope, cordage and twine	73	0.1	n.p.
2356	Textile products n.e.c.	90	0.1	n.p. n.p.
235	Total	1,190	0.1	546
23	Total textiles	6,467	0.3	1,881
	CLOTHING AND FOOTWEAR— Knitting mills—			
2441	Hosiery	232	P.D.	
442	Cardigans and pullovers	41	n.p. n.p.	n.p.
2443	Knitted goods n.e.c.	346	0.1	n.p.
244	Total	619	0.1	27
	Clothing—			
2451	Men's trousers and shorts; work clothing	32	_	n.p.
452	Men's suits and coats; waterproof clothing	n.p.	n.p.	n.p.
453	Women's outerwear n.e.c.	108	_	n.p.
454	Foundation garments	n.p.	n.p.	n.p.
2455 2456	Underwear and infants' clothing n.e.c.	118	0.1	370
245 0 245	Headwear and clothing n.e.c. Total	177 500	0.1	136 531
246	Footwear	208	0.1	48
24	Total clothing and footwear	1,327	0.1	606
	WOOD, WOOD PRODUCTS AND FURNITURE—			
	Wood and wood products—			
2531	Log sawmilling	447	0.3	286
532	Resawn and dressed timber	445	0.4	48
.533 .534	Veneers and manufactured boards of wood	421	0.3	358
535	Wooden doors Wooden structural fittings and joinery n.e.c.	. 78 560	0.3 0.2	n.p.
536	Wooden containers			169
537	Hardwood woodchips	n.p. n.p.	n.p. n.p.	n.p. n.p.
538	Wood products n.e.c.	105	0.2	43
53	Total	2,241	0.3	972
c	Furniture and mattresses—			
541	Furniture (except sheet metal)	1,170	0.2	π.р.
542 <i>54</i>	Mattresses (except rubber) Total	126 1,296	0.1 0.2	n.p. 576
	Total wood, wood products and furniture	3,537	0.2	1,548

TABLE 7. MANUFACTURING ESTABLISHMENTS (a): EXPENDITURE ON ENVIRONMENTAL PROTECTION (b) BY INDUSTRY CLASS, VICTORIA, 1991-92—continued

a	nt expenditure on mental protection		. ,	
Capit expenditure	Proportion of		try class	industr ———
abate polluti (\$'00	total turnover (c) (Per cent)	(\$'000)	Description	ASIC code
			PAPER, PAPER PRODUCTS, PRINTING AND PUBLISHING—	
			Paper and paper products—	
4,82	1.6	9,825	Pulp, paper and paperboard	2631
-	0.1	115	Paper bags (including textile bags)	2632
n.	_	30	Solid fibreboard containers	2633
n.	1.2	4,732	Corrugated fibreboard containers	2634
1,87	0.5	1,887	Paper products n.e.c.	2635
7,50	I.I	16,589	Total	263
			Printing and allied industries—	
n.	_	93	Publishing	2641
n.	0.1	673	Printing and publishing	2642
13	0.1	548	Paper stationery	2643
83	0.1	1,101	Printing and bookbinding	2644
11	0.2	386	Printing trade services n.e.c.	2645
1,14	0.1	2,801	Тоші	264
			Total paper, paper products, printing	26
8,71	0.4	19,390	and publishing	
			CHEMICAL, PETROLEUM AND COAL PRODUCTS—	
			Basic chemicals—	
8	0.1	70	Chemical fertilisers	2751
n.	n.p.	n.p.	Industrial gases	2752
5,03	0.9	9,977	Synthetic resins and rubber	2753
1,17	7.9	21,216	Organic industrial chemicals n.e.c.	2754
72	0.7	1,715	Inorganic industrial chemicals n.e.e.	2755
n.,	n.p.	n.p.	Total	275
			Other chemical products—	
п.;	1.0	1,583	Ammunition, explosives and fireworks	2761
1,65	0.5	2,661	Paints	2762
34	1.7	13,313	Pharmaceutical and veterinary products	2763
ուլ	n.p.	n.p.	Pesticides	2764
30	0.3	952	Soap and other detergents	2765
28	0.3	232	Cosmetics and toilet preparations	2766
n.j	n.p.	n.p.	Inks	2767
45	0.5	1,133	Chemical products n.e.c.	2768
3,71	0.9	22,149	Total	276
n.,	n.p.	н.р.	Petroleum refining	277
п.,	0.5	165	Petroleum and coal products n.e.c.	278
21,85	0.9	62,400	Total chemical, petroleum and coal products	27

TABLE 7. MANUFACTURING ESTABLISHMENTS (a): EXPENDITURE ON ENVIRONMENTAL PROTECTION (b) BY INDUSTRY CLASS, VICTORIA, 1991-92—continued

Indust	m das		ent expenditure on onmental protection	
inausi	ry class		Proportion of	Capital expenditure to
ASIC code	Description	(\$'000)	ioial turnover (c) (Per cent)	abate pollution (\$'000)
	NON-METALLIC MINERAL PRODUCTS—			<u></u>
285	Glass and glass products	789	0.2	578
	Clay products and refractories—			-
2861	Clay bricks	49	0.1	_
2862	Refractories	n.p.	n.p.	
2863	Ceramic tiles and pipes	n.p.	n.p.	n.p.
2864	Ceramic goods n.e.c.	354	0.5	n.p.
286	Total	804	0.3	146
	Cement and concrete products			
2871	Cement	n.p.	n.p.	n.p.
2872	Ready mixed concrete	898	0.4	468
2873	Concrete pipes and box culverts	n.p.	n.p.	n.p.
2874	Concrete products n.e.c.	462	0.2	n.p.
287	Total	3,319	0.5	1,047
	Other non-metallic mineral products—			
2881	Plaster products and expanded minerals	720	0.6	373
2882	Stone products	116	0.4	n.p.
2883	Glass wool and mineral wool products	595	0.4	n.p.
2884	Non-metallic mineral products n.e.c.	74	0.1	——————————————————————————————————————
288	Total	1,505	0.4	800
28	Total non-metallic mineral products	6,417	0.4	2,571
	BASIC METAL PRODUCTS—			
	Basic iron and steel—			
2941	Iron and steel basic products	5,442	0.3	6,609
2942	Iron casting	649	0.5	43
2943	Steel casting	331	0.5	π.p.
2944	Iron and steel forging	17	0.1	<u> </u>
2945	Steel pipes and tubes	314	0.5	n.p.
294	Total	6,753	0.3	6,775
•	Basic non-ferrous metals—			
2951	Copper smelting, refining	_	<u></u>	_
2952	Silver, lead, zinc smelting, refining	n.p.	n.p.	n.p.
2953	Alumina	<u>.</u>	'	-
2954	Aluminium smelting	n.p.	n.p.	n.p.
2955 -	Nickel smelting, refining	<u>.</u>	<u>.</u>	——————————————————————————————————————
2956	Non-ferrous metals n.e.c. smelting, refining	n.p.	n.p.	n.p.
2957	Secondary recovery and alloying	·	ı	r .
	of non-ferrous metals n.e.c.	1,938	n.p.	380
295	Total	9,038	n.p.	10,965
	Non-ferrous metal basic products—			
2961	Aluminium rolling, drawing, extruding	396	0.1	n.p.
2962	Non-ferrous metals n.e.c. rolling,			71.p.
	drawing, extruding	95	n.p.	n.p.
2963	Non-ferrous metal casting	" 105	0.2	261
296	Total	596	n.p.	474
29	Total basic metal products	16,387	0.4	18,214

TABLE 7. MANUFACTURING ESTABLISHMENTS (a): EXPENDITURE ON ENVIRONMENTAL PROTECTION (b) BY INDUSTRY CLASS, VICTORIA, 1991-92—continued

			ent expenditure on onmental protection	
ASIC code	Description	(\$'000)	Proportion of total turnover (c) (Per cent)	Capital expenditure to abate pollution (\$'000)
	· · · · · · · · · · · · · · · · · · ·		(1 6, 66,07)	12 000)
	FABRICATED METAL PRODUCTS—			
	Structural metal products			
3141	Fabricated structural steel	565	0.1	145
3142	Architectural aluminium products	201	0.1	74
3143	Architectural metal products n.e.c.	185	0.1	57
314	Total	951	0.1	276
	Sheet metal products—			
3151	Metal containers	917	0.2	885
3152	Sheet metal furniture	65	0.1	19
3153	Sheet metal products n.e.c.	700	0.1	455
315	Total	1,682	0.1	1,359
	Other fabricated metal products—			
3161	Cutlery and hand tools n.e.c.	232	0.2	218
3162	Springs and wire products	311	0.1	50
3163	Nuts, bolts, screws and rivets	472	0.2	197
3164	Metal coating and finishing	980	0.8	290
3165	Non-ferrous steam, gas and water fittings	242	0.2	•
3166	Boiler and plate work	37	0.1	n.p.
3167	Metal blinds and awnings	20	0.1	n.p.
3168	Fabricated metal products n.e.c.	758	0.2	111
316	Total	3,052	0.2	959
31	Total fabricated metal products	5,685	0.2	2,594
	TRANSPORT EQUIPMENT			
	Motor vehicles and parts—			
3231	Motor vehicles	3,311	0.1	6,424
3232	Motor vehicle bodies, trailers, caravans	179	0.1	15
3233	Motor vehicle instruments and	• • • • • • • • • • • • • • • • • • • •	6.7	15
	electrical equipment n.e.c.	1,036	0.2	626
3234	Motor vehicle parts n.e.c.	1,922	0.2	622
323	Total	6,448	0.1	7,687
	**Other transport equipment—			
3241	Ships	243	n.p.	n.p.
3242	Boats	75	0.2	29
3243	Railway rolling stock and locomotives	n.p.	n.p.	n.p.
3244	Aircraft	634	0.1	1.p. 206
3245	Transport equipment n.e.c.	n.p.	n.p.	
324	Total	1,086	0.1	n.p. 311
32	Total transport equipment	7,534	0.1	7,998

TABLE 7. MANUFACTURING ESTABLISHMENTS (a): EXPENDITURE ON ENVIRONMENTAL PROTECTION (b) BY INDUSTRY CLASS, VICTORIA, 1991-92—continued

7 1 .	,	_	ent expenditure on onmental protection	a .
ASIC	ry class		Proportion of	Capitat expenditure to abate pollution
code	Description	(\$1000)	total turnover (c) (Per cent)	(\$'000)
	OTHER MACHINERY AND EQUIPMENT—			
	Photographic, professional and scientific equipment—			
3341	Photographic and optical goods	2,286	0.7	1,718
3342 3343	Photographic film processing	134	0.2	108
3343	Measuring, professional and scientific equipment n.c.c.	379	0.2	213
334	Total	2,799	0.5	2,039
	Appliances and electrical equipment—			
3351	Radio and TV receivers; audio equipment	108	0.2	n.p.
3352	Electronic equipment n.e.c.	568	_	345
3353	Refrigerators and household appliances	648	0.1	204
3354	Water heating systems	n.p.	n.p.	n.p.
3355	Electric and telephone cable and wire	233	0.1	111
3356 3357	Batteries Electrical machinery and equipment n.e.c.	n.p. 894	n.p. 0.2	n.p. 561
335 i	Total	2,504	0.1	1,301
	Industrial machinery and equipment—			
3361	Agricultural machinery	79	0.1	17
3362	Construction machinery	87	0.2	n.p.
3363	Materials handling equipment	202	0.2	n.p.
3364	Wood and metal working machinery	355	0.4	38
3365	Pumps and compressors	113	0.1	_
3366	Commercial space heating and cooling equipment	135	O. 1	35
3367	Dies, saw blades and machine tool accessories	406	0.2	14
3368	Food processing machinery	106	0.2	_
3369	Industrial machinery and equipment n.e.c.	1,347	0.2	265
336	Total	2,830	0.2	410
33	Total other machinery and equipment	8,133	0.2	3,750
	MISCELLANEOUS MANUFACTURING—			
3451	Leather and leather products—	3,098	1.7	1 1/12
3452	Leather tanning and fur dressing Leather and leather substitute goods n.e.c.	3,096 15	0.1	1,143
345	Total	3,113	1.5	1,143
J , J		5,115	1.0	1,2,0
2461	Rubber products—	1 910	0.3	
3461 3462	Rubber tyres, tubes, belts, hose and sheets Rubber products n.e.c.	1,818 314	0.3	n.p.
346	Total	2,132	0.3	n.p. <i>362</i>
	Plastic and poloted mandy at a			
3471	Plastic and related products— Flexible packaging and abrasive papers	1,570	0.2	913
3472	Rigid plastic sheeting	n.p.	n.p.	n.p.
3473	Hard surface floor coverings n.e.c.	n.p.	п.р.	n.p.
3474	Plastic products n.e.c.	3,359	0.2	2,137
347	Total	5,493	0.2	3,147
	Other manufacturing—			
3481	Ophthalmic articles	n.p.	п.р.	n.p.
3482	Jewellery and silverware	n.p.	n.p.	314
3483	Brooms and brushes	42	0.4	n.p.
3484	Signs and adventising displays	215	0.2	78
3485 3486	Sporting equipment	23 9	0.1 0.4	n.p.
3480 3487	Writing and marking equipment Manufacturing n.e.c.	56	0.4	п.р. 297
348 348	Manufactoring n.e.c.	52 2	0.2	722
34	Total miscellaneous manufacturing	11,260	0.3	5,374
21-34	TOTAL MANUFACTURING	165,044	0,3	90,167

⁽a) Data in this table exclude expenditure by single establishment businesses with less than four persons employed. (b) See paragraph 39 of the Explanatory Notes. Establishments which did not respond to the questions are treated as having nil expenditure. (c) See paragraph 24 of the Explanatory Notes.

TABLE 8. MANUFACTURING LOCATIONS (a): SUMMARY OF OPERATIONS IN STATISTICAL DIVISIONS BY INDUSTRY SUBDIVISION, VICTORIA, 1991-92

Industry	subdivision	Locations at 30 June	Employment at end of June	Wages and salaries	
ASIC Code	Description	(a) (No.)	(b) (No.)	(c) (\$m)	Turnove (\$n
	MELBOU	RNE STATISTICAL D	IVISION		· · · · · · · · · · · · · · · · · · ·
21	Food, beverages and tobacco	765	28,156	818.9	6,095.
23	Textiles	329	8,925	259.8	1,426.
24	Clothing and footwear	1,172	20,456	490.2	2,088.
25	Wood, wood products and furniture	1,454	13,546	321.0	1,342.
26	Paper, paper products, printing and publishing	1,314	27,096	897.2	4,104.
27	Chemical, petroleum and coal products	357	15,447	576.2	4,259.
28	Non-metallic mineral products	314	7,389	248.6	1,301.1
29	Basic metal products	233	7,200	247.0	2,192.1
31	Fabricated metal products	1,494	21,934	640.7	3,060.5
32	Transport equipment	502	33,392	1,049.9	5,783.2
33 34	Other machinery and equipment	1,632	32,512	1,033.7	4,885.3
34	Miscellaneous manufacturing	1,071	21,800	671.8	3,418.1
21-34	Total manufacturing	10,637	237,853	7,254.8	39,958.6
		ON STATISTICAL DIV	ISION		
21	Food, beverages and tobacco	48	1,547	36.0	263.4
23	Textiles	20	1,729	50.8	262.0
24	Clothing and footwear	24	926	19.3	82.5
25	Wood, wood products and furniture	92	745	16.1	63.5
26	Paper, paper products, printing and publishing	28	593	14.5	39.1
27	Chemical, petroleum and coal products	23	1,327	n.p.	n.p
28	Non-metallic mineral products	32	917	43.8	207.8
29	Basic metal products	17	1,849	n.p.	n.p.
31	Fabricated metal products	64	695	14.2	87.7
32	Transport equipment	24	4,237	116.3	442.9
33 34	Other machinery and equipment Miscellaneous manufacturing	39 36	702 281	17.5 5.9	68.0 22.7
21-34	Total manufacturing	447	15,548	488.9	
		STRICT STATISTICAL	·	400.7	4,676.3
 21	Food, beverages and tobacco	42		64.0	621.2
23	Textiles	2	2,560		631.3
24 -	Clothing and footwear	5	n.p. n.p.	n.p.	n.p.
25	Wood, wood products and furniture	30	1.p. 264	n.p. 5.9	n.p. 35.4
26	Paper, paper products, printing and publishing	14	247		
27	Chemical, petroleum and coal products	4	140	п.р. п.р.	n.p.
28	Non-metallic mineral products	10	35	0,6	n.p. 2.5
29	Basic metal products	3	815	n.p.	n.p.
31	Fabricated metal products	23	274	7.7	25.5
32	Transport equipment	7	38	n.p.	n.p.
33	Other machinery and equipment	14	347	n.p.	n.p.
34	Miscellaneous manufacturing	9	34	0.7	2.7
21-34	Total manufacturing	163	5,405	149.7	1,668.5
	CENTRAL HIG	HLANDS STATISTICA	L DIVISION		
21	Food, beverages and tobacco	. 43	2,126	64.2	370.7
23	Textiles	7	283	7.3	23.0
24 . 25	Clothing and footwear	9	249	n.p.	п.р.
ည 26	Wood, wood products and furniture	58	743	20.4	98.3
20 27	Paper, paper products, printing and publishing Chemical, petroleum and coal products	16 3	278	8.6	18.0
28	Non-metallic mineral products	32	115 516	n.p.	n.p.
29	Basic metal products	13	301	15.4 8.3	64.8
31	Fabricated metal products	42	351	7.6	28.1 27.0
32	Transport equipment	11	840	7.6 24.3	27.0 94.4
33	Other machinery and equipment	37	784	24.3 20.0	94.4 86.2
34	Miscellaneous manufacturing	22	85	1.8	7.6
	Total manufacturing				

TABLE 8. MANUFACTURING LOCATIONS (a): SUMMARY OF OPERATIONS IN STATISTICAL DIVISIONS BY INDUSTRY SUBDIVISION, VICTORIA, 1991-92—continued

Industry	subdivision	Locations at 30 June	Employment at end of June	Wages and salaries	
ASIC Code	Description	(a) (No.)	(b) (No.)	(c) (\$m)	Turnove (\$m
	······································	RA STATISTICAL DI	VISION		
21	Food, beverages and tobacco	26	508	11.7	63.
23	Textiles	2	n.p.	n.p.	n.p
24	Clothing and footwear	4	221	n.p.	n.p
25	Wood, wood products and furniture	15	79	1.4	5.:
26	Paper, paper products, printing and publishing	7	79	n.p.	n-E
27	Chemical, petroleum and coal products	7	 65	1.3	5
28	Non-metallic mineral products	1			
29 31	Basic metal products Fabricated metal products	14	n.p. 63	n.p. 1.1	n.p 6.9
32	Transport equipment	3	10	n.p.	n.p
33	Other machinery and equipment	11	57	1.0	3.4
34	Miscellaneous manufacturing	10	142	n.p.	n.p
21-34	Total manufacturing	100	1,443	31.4	135.:
	MALLI	E STATISTICAL DIV	ISION		
21	Food, beverages and tohacco	43	892	24.2	321.2
23	Textiles	3	20	0.3	2
24	Clothing and footwear				_
25	Wood, wood products and furniture	20	93	2.1	9.
26	Paper, paper products, printing and publishing	14	184	4.1	9.1
27	Chemical, petroleum and coal products	3 7	n.p. 58	n.p. 1.1	n. <u>p</u> 5.:
28 29	Non-metallic mineral products Basic metal products	í		n.p.	n.p
29 31	Fabricated metal products	9	56	1.3	4.
32	Transport equipment	11	59	1.0	3.
33	Other machinery and equipment	15	141	2.7	11.
34	Miscellaneous manufacturing	8	54	1.5	8.
21-34	Total manufacturing	134	1,580	38.8	379.
	LODDON-CA	MPASPE STATISTICA	AL DIVISION		
21	Food, beverages and tobacco	80	2,920	76.6	643.
23	Textiles	11	682	11.3	33.
24 -	Clothing and footwear	10	640	13.8	43.
25	Wood, wood products and furniture	59	261	4.5 14.5	17.s 56 .
26	Paper, paper products, printing and publishing	40 9	583 46	1.0	36. 11.
27	Chemical, petroleum and coal products	30	284	6.4	30.
28 29	Non-metallic mineral products Basic metal products	8	102	2.9	8.
31	Fabricated metal products	38	786	21.4	65.
32	Transport equipment	20	499	14.0	37.
33	Other machinery and equipment	38	864	22.5	88.
34	Miscellaneous manufacturing	18	331	7.1	25.
21-34	Total manufacturing	361	7,998	196.2	1,061.
	GOULBU	JRN STATISTICAL DI	IVISION	••••	
21	Food, beverages and tobacco	68	3,419	114.7	927.
23	Textiles	8	253	8.2	32.
24	Clothing and footwear	11 52	228 481	4.7 10.6	22.: 66.
25	Wood, wood products and furniture	32 35	585	n.p.	n.ţ
26	Paper, paper products, printing and publishing	55 5	88	п.р. п.р.	u't F
27 28	Chemical, petroleum and coal products Non-metallic mineral products	25	118	2.2	9.
29	Basic metal products	5	70	1.5	3.
31	Fabricated metal products	39	375	9.8	114.
32	Transport equipment	14	149	3.0	14.
33	Other machinery and equipment	46	312	7.5	30.
34	Miscellaneous manufacturing	23	111	2.5	10.
21-34	Total manufacturing	331	6,189	182.2	1,313.

TABLE 8. MANUFACTURING LOCATIONS (a): SUMMARY OF OPERATIONS IN STATISTICAL DIVISIONS BY INDUSTRY SUBDIVISION, VICTORIA, 1991-92—continued

Industry subdivision		Locations at 30 June	Employment at end of June	Wages and salaries	
ASIC Code	Description	(a) (No.)	(b) (No.)	(c) (\$m)	Turnove. (\$m
	,	IRRAY STATISTICAL		. ,	
21	Food, beverages and tobacco	42	3,493	107.6	766.3
23	Textiles	4	771	n.p.	п.р
24	Clothing and footwear	8	135	3.0	11.5
25	Wood, wood products and furniture	31	288	6.8	26.1
26	Paper, paper products, printing and publishing	15	472	13.3	71.5
27	Chemical, petroleum and coal products	.3	62	n.p.	n.p
28	Non-metallic mineral products	17	144	3.3	21.0
29 31	Basic metal products Fabricated metal products	7 25	181 278	n.p. 7,4	n.p 96.9
32	Transport equipment	<i>ي</i> 5	17	0.2	90.9
33	Other machinery and equipment	19	481	n.p.	n.p
34	Miscellaneous manufacturing	9	141	n.p.	n.p
21-34	Total manufacturing	185	6,463	191.0	1,394.0
	EAST GIPPS	SLAND STATISTICAL	DIVISION		
21	Food, beverages and tobacco	24	504	14.3	149.2
23	Textiles	2	n.p.	n.p.	n.p.
24	Clothing and footwear	2	n.p.	n.p.	n.p.
25	Wood, wood products and furniture	50	585	14.0	71.5
26 27	Paper, paper products, printing and publishing	6	89	1.6	4.3
28	Chemical, petroleum and coal products	12		0.8	
28 29	Non-metallic mineral products Basic metal products	12 2			3.6
31	Fabricated metal products	19	n.p. 268	n.p. 7.9	n.p. 19.5
32	Transport equipment	6	24	0.4	1.6
33	Other machinery and equipment	10	72	1.8	6.6
34	Miscellaneous manufacturing	7	120	n.p.	n.p.
21-34	Total manufacturing	140	1,766	45.2	279.2
	GIPPSLA	ND STATISTICAL DI	VISION		
21	Food, beverages and tobacco	50	1,419	37.7	391.3
23	Textiles	7	307	8.6	33.2
24-	Clothing and footwear	6	157	3.9	13.1
25 26	Wood, wood products and furniture	51 23	560	13.6	53.6
26 27	Paper, paper products, printing and publishing Chemical, petroleum and coal products	23 6	1,313 120	n.p.	n.p.
28	Non-metallic mineral products	22	126	n.p. 4.3	n.p. 26.3
29	Basic metal products	4	66	ń.p.	n.p.
31	Fabricated metal products	43	559	14.9	60.9
32	Transport equipment	14	72	1.2	4.6
33	Other machinery and equipment	29	162	3.5	11.4
34	Miscellaneous manufacturing	17	120	2.3	10.0
21-34	Total manufacturing	272	4,981	152.3	942.6
	VICTORIA EXCLUDIN	IG MELBOURNE STA	TISTICAL DIVISION		
21	Food, beverages and tobacco	466	19,388	551.0	4,528.0
23	Textiles	66	4,516	119.1	551.3
24 -	Clothing and footwear	79	2,926	61.9	230.0
25 26	Wood, wood products and furniture Paper, paper products, printing and publishing	458 198	4,099	95.4 136.1	447.5 502.7
27	Chemical, petroleum and coal products	190 56	4,423 1,912	136.1 82.1	592.7 2,435.5
28	Non-metallic mineral products	194	2,317	79.1	376.5
29	Basic metal products	61	3,472	147.8	1,756.5
31	Fabricated metal products	316	3,705	93.4	509.0
32	Transport equipment	115	5,945	161.5	604.9
33	Other machinery and equipment	258	3,922	101.5	534.1
34	Miscellaneous manufacturing	159	1,419	31.9	151.5
	Total manufacturing	2,426	58,044	1,660.6	

TABLE 8. MANUFACTURING LOCATIONS (a): SUMMARY OF OPERATIONS IN STATISTICAL DIVISIONS BY INDUSTRY SUBDIVISION, VICTORIA, 1991-92—continued

Industry subdivision		Locations at 30 June	Employment at end of June	Wages and salaries	
ASIC Code	Description	(a) (No.)	(b) (No.)	(c) (\$m)	Turnover (\$m)
		VICTORIA			
21	Food, beverages and tobacco	1,231	47,544	1,369.9	10,623.2
23	Textiles	395	13,441	378.9	1,978.1
24	Clothing and footwear	1,251	23,382	552.1	2,318.4
25	Wood, wood products and furniture	1,912	17,645	416.4	1,790.2
26	Paper, paper products, printing and publishing	1,512	31,519	1,033.3	4,697.6
27	Chemical, petroleum and coal products	413	17,359	658.2	6,694.8
28	Non-metallic mineral products	508	9,706	327.7	1,678.1
29	Basic metal products	294	10,672	394.8	3,949.2
31	Fabricated metal products	1,810	25,639	734.0	3,569.4
32	Transport equipment	617	39,337	1,211.3	6,388.1
33	Other machinery and equipment	1,890	36,434	1,135.2	5,419.3
34	Miscellaneous manufacturing	1,230	23,219	703.6	3,569.6
21-34	Total manufacturing	13,063	295,897	8,915.5	52,676.1

⁽a) See paragraphs 10 and 40 to 42 of the Explanatory Notes. (b) Includes working proprietors. (c) Excludes the drawings of working proprietors.

INTRODUCTION OF THE ANZSIC INDUSTRY CLASSIFICATION INTO MANUFACTURING STATISTICS

The Australian and New Zealand Standard Industrial Classification (ANZSIC) has been developed for use in both Australia and New Zealand for the production and analysis of industrial statistics. ANZSIC replaces the Australian Standard Industrial Classification (ASIC) previously used. The data in Table 9 present a concordance between the outgoing ASIC and the ANZSIC for data collected in respect of the 1991-92 reference year. Data presented in Tables I to 8 of this publication are ASIC-based.

The ASIC classification was first released in 1969 and underwent an extensive revision in 1978 and a partial revision in 1983. In 1985, a major review of the ASIC commenced. The principal objectives were to improve the alignment of the ASIC with the International Standard Industrial Classification (ISIC), to achieve a better balance across the classification by giving more attention to the services sector (including segments relating to culture, entertainment and other recreational industries), and to take into account the effects of technological changes and changes in structure of the industry generally since the previous edition.

A succession of economic agreements between Australia and New Zealand have operated since 1922. The most recent of these (the Australia - New Zealand Closer Economic Relations Trade Agreement [CER]) became effective from 1 January 1983. This has resulted in joint working relationships being set up to harmonise statistics wherever possible. This ultimately resulted in the ANZSIC being developed and adopted as the standard industry classification in both countries.

The major change between ASIC and ANZSIC for the manufacturing division is that the number of industry subdivisions has decreased from twelve to nine. In very broad terms, the three industry subdivisions (or parts thereof) under ASIC that have been merged in ANZSIC are:

- Textiles and Clothing and footwear have been combined to form the Textiles, clothing, footwear and leather industry subdivision.
- Basic metal products and Fabricated metal products have been combined to form the Metal products industry subdivision.
- * Transport equipment has been combined with Other machinery and equipment to form the Machinery and equipment industry subdivision.

There have been further changes at the industry group and industry class levels, which were made to address changes in technology and structure in the manufacturing industry.

In addition, a small number of activities which were classified to the manufacturing industry under ASIC have been classified to non-manufacturing industries under ANZSIC. The reverse has also occurred.

From the 1992-93 reference year onwards, the manufacturing industry publications 8201.0 and 8221.0 to 8221.7 will be ANZSIC-based. Manufacturing collections dating back to the 1989-90 reference year have been coded using both classifications to assist in time series analysis in future years. In the meantime, these data are available as unpublished data. There is also a range of ANZSIC-based data (in addition to the following concordance) which is available as unpublished data from the 1991-92 manufacturing census.

TABLE 9. MANUFACTURING ESTABLISHMENTS (a): ASIC-ANZSIC CONCORDANCE (b) BY INDUSTRY SUBDIVISION, VICTORIA, 1991-92

ANZSIC subdivision description and code

Products Products	Industr	Industry subdivision	Food, beverages	Textiles, clothing, footwear	Wood	Printing, publishing and	Petroleum, coal, chemicals and	Non- metallic	, ,	Machinery	- Triv			
Find, becauses and tabacco 238 390 — 3 — 3 — 4 — 4 — 5	ASIC	Description	ana tobacco 21	teatner products 22	paper products 23	recordea media 24	associated products 25	mineral products 26	metal products 27	ana equipment 28	Omer manufacturing 29		тапыуак Ал	Total ASIC
Fiscal Exercises and tobacco 238 249					ES	TABLISHM	ENTS AT 30 J	UNE (c) (No.						
Contrigue of Government 1,389 1,380 1,385 1,485 1,	21	Food, beverages and tobacco	928		1	1	3	:				931		1,198
Process Process and colorisation Process a	2 23	Textiles Clothing and fortwear	1	380 1 205								380	1	1.205
Prof. paper products, princing and publishing 2 110 1,359 1 1,471	25	Wood, wood products and furniture		2	793			I	j		1,061	1,856	ļ	1,856
Commission and easi products Operation and easi products 995 464 1 996 1,887 996 996 1,887 996 996 1,887 996 996 1,887 996 996 1,887 996 996 1,986 996 1,986 996 1,986 996 1,986 996 1,987 996 1,986 996 1,996 996 1,986 996 1,996 996 1,996 996 1,996 996 1,996 996 1,996 996 1,996 996 1,996	56	Paper, paper products, printing and publishing	1	7	110	1,359	1 ;	1	1.	ł		1,471		1,471
Bist metal products Bist metal products	27 24	Chemical, petroleum and coal products					395	9		}		396 454	i	£ \$
Figure and metal products Figure and brothers Figure and bro	2 2	Rasic metal products		.]		ļ	1	ş	288			288	1	288
Transport equipment	33	Fabricated metal products				1	}	1	1,654	1	95	1,749	1	1,749
Other machinery and equipment 81 4 547 6 1,887 1,991 109 34 Total machinery and equipment 98 1,670 903 1,363 945 470 1,943 2,323 1,674 12,190 1190 109 34 Total marketuring under ASIC) 941 1,670 903 1,363 945 470 1,943 2,436 1,674 12,190 1190 11 Total ANXSIC Post ANXSIC Post ANXSIC Post ANXSIC Post ANXSIC Post ANXSIC 470 1,943 2,436 1,674 12,216 449 11 Food box read of the ANXSIC Post ANXSIC	32	Transport equipment	I	†	ļ	1		I	1	85.	2	598	15	865.
Miscellancous manufacturing Misc	33	Other machinery and equipment		5		4	3	`		1,687	1 3	169'1	169	1,800
Total manufacturing 928 1,670 903 1,363 945 470 1,943 2,323 1,674 12,219 449 1,2419 1,449 1,2419 1,449 1,2419 1,44	34 4	Miscellancous manufactuming		-]	247	o		9	916	1.190	13	CU2,1
Non-manufasturing (under ASIC) 13 1,670 903 1,363 945 470 1,943 2,456 1,674 12,365 Food, beverages and tobacco 44.7 13.4 Food, beverages and tobacco 44.7	21-34	Total manufacturing	928	1,670	606	1,363	945	470	1,943	2,323	1,674	12,219	449	12,668
Final AXXXIII. Final AXXXIIII. Final AXXXIII. Final AXXXIIII. Final AXXXIII. Final AXXXIIII. Final AXXXIII. Final AXXXIII. Final AXXXIII. Final AXXXIII. Final AXXXIIII. Final AXXXIII. Final AXXXIIII. Final AX		Non-manufacturing (under ASIC)	ដ រូ	<u> </u>		:	3	{	5	133	;	5. 5.		:
Food beverages and tobacco		Total ANZSIC	941	1,670	506 1	1,363	945	476	1,943	2,456	1,674	12,365	;	:
Food, beverages and tobacco					EMI	PLOYMENT	AT END OF	JUNE (d) (00	ô					
Takilies	21	Food beverages and tobacco	44.7								1	44.7	3.1	47.8
Clothing and footwear 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23.5 25.0	33	Textiles	1	13.4	l	l		1	l	1		13.4	l	13.4
Wood, wood products and furniture 0.1 8.2 — 9.3 17.6 — Paper, paper products, printing and publishing — 6.5 25.0 — — 9.7 — <th>24</th> <th>Clothing and footwear</th> <td> </td> <td>23.4</td> <td> </td> <td>1</td> <td>I</td> <td>1</td> <td>1</td> <td></td> <td></td> <td>23.4</td> <td> </td> <td>4.5.</td>	24	Clothing and footwear		23.4		1	I	1	1			23.4		4.5.
Paper, paper products, printing and publishing Paper, paper products, printing and publishing Paper, paper products, printing and publishing Paper, paper products Paper, paper products Paper, paper products Paper, paper products Paper, products P	25	Wood, wood products and furniture	I	0.1	80 -	;	1	I	}	İ	6.9	17.6	1	1/10
Non-metal products 1.4 10.7 1	9 5	Paper, paper products, printing and publishing	-		6.5	25.0	16.7	}	4	i 1	{	51.5		17.3
Basic metal products 10.7 10.7 10.7 10.7 Fabricated metal products 1.4 24.2 1.4 25.7 1.4 25.7 Fabricated metal products 1.4 24.2 1.4 25.7 1.4 25.7 Transport equipment 1.4 0.1 1.4 1.4 25.7 1.4 25.7 Other machinery and equipment 1.4 </th <th>28</th> <th>Non-metallic mineral products</th> <td></td> <td></td> <td></td> <td></td> <td><u>i</u> </td> <td>7.6</td> <td>} !</td> <td>1</td> <td></td> <td>7.6</td> <td></td> <td>1.6</td>	28	Non-metallic mineral products					<u>i</u>	7.6	} !	1		7.6		1.6
Fabricated metal products	<u>2</u> 62	Basic metal products	ì	I			!	ı	10.7	l	1	10.7		10.7
Transport equipment — — — — — 39.2 — — 39.2 — — 39.2 — — 39.2 — — 39.2 — — 39.2 — — 39.2 — — 35.1 — 35.1 — 35.1 — 35.1 — 35.1 — 35.1 — 35.1 — 35.1 — 35.2 23.2 — 35.2 23.2 — — 35.2 23.2 — — 35.2 23.2 — — 35.2 27.2 14.2 291.6 4.5 2 Noi-manufacturing (under ASIC) 0.1 — — — — — — — 0.6 — — — 0.6 — — — — — 0.6 — — — — — 0.6 —<	3}	Fabricated metal products	ł	İ			i	ļ	24.2	ţ	1.4	25.7	I	25.7
Other machinery and equipment — 0.1 — 0.1 — 35.1 — 35.1 — 1.4 Miscellaneous manufacturing Miscellaneous manufacturing Miscellaneous manufacturing 44.7 38.4 14.7 25.1 34.5 9.9 35.5 74.7 14.2 291.6 4.5 2 Noi-manufacturing (under ASIC) — 0.4 3.5 75.2 14.2 292.2	32	Transport equipment								39.2		39.2	1	39.2
Miscellaneous manufacturing (under ASIC) 44.7 38.4 14.7 25.1 34.5 9.9 35.5 75.2 14.2 291.6 4.5 2 75.2 Total ANZSIC 44.8 38.4 14.7 25.1 34.5 9.9 35.5 75.2 14.2 292.2	£	Other machinery and equipment		;		0.1	;	8	1	35.1	"	35.1	1.4	50.5 C.55
Total manufacturing (under ASIC) 0.1 — — — — — — — — — — — — — — — — — — —	46	Miscellaneous manufacturing	İ	J.4	1		17.8	0.2		4.O	5.5	23.2		43.64
under ASIC) 0.1 — 0.5 — 0.5 — 0.6 · · · · · · · · · · · · · · · · · · ·	21.34		44.7	38.4	14.7	25.1	34.5	6.6	35.5	74.7	14.2	291.6		296.1
44.8 38.4 14.7 25.1 34.5 9.9 35.5 75.2 14.2 292.2		Non-manufacturing (under ASIC)	T 0;	;	1 ;	;	•	1 5	1 ;	0.5	5	0.0	:	:
		Total ANZSIC	8.4	38.4	14.7	25.1	34.5	6.6	35.5	75.2	14.2	2.562	-	:

For footnotes see end of table.

TABLE 9. MANUFACTURING ESTABLISHMENTS (a): ASIC-ANZSIC CONCORDANCE (b) BY INDUSTRY SUBDIVISION, VICTORIA, 1991-92—continued

ANZSIC subdivision description and code

	I		Textiles,		Printing	Petroleum,							
Industi	Industry subdivision	Food, beverages	footwear	Wood	publishing	chemicals	Non-		Machinery			Mon	
t		and	leather	paper	recorded	associated	mineral	Metal	pup	Other	Total	manufacturing	
ASIC	Description	tobacco 21	products 22	products 23	media 24	products 25	products 26	products 27	equipment 28	manufacturing 29	manufacturing 21-29	(under ANZSIC)	Total ASIC
		i			WAGES AP	WAGES AND SALARIES (e) (\$m)	S (e) (Sm)						:
17	Food, beverages and tobacco	1,320.3		1		0.4		I		1	1.320.7	56.1	1.376.8
23	Textiles		379.0	i		ŀ		1		!	379.0	;	379.0
54	Clothing and footwear	ł	552.9				ŀ		1		552.9	1	552.9
£1 5	Wood, wood products and funiture		4.2	202.4	1			1		210.6	417.2	1	417.2
88	Paper, paper products, printing and publishing	l	0.1	250.3	783.1	;	İ	1		1	1,033.4		1,033.4
7 6	Chemical, petroleum and coal products	1				638.6		19.7		1	658.2		658.2
% 8	Non-metallic mineral products]			Í		328.7		I		328.7	1	328.7
₹3 ;	Basic metal products						!	394.7			394.7	1	394.7
5	Fabricated metal products			1				694.2	Į	40.1	734.3		734.3
35	Transport equipment	1	1	1	1		!		1,210.9	9.0	1,211.5	I	1.211.5
8	Other machinery and equipment		ļ		9.1	i			1,106.5	1	1,108.0	28.1	1.136.2
34	Miscellancous manufacturing		36.1	i		578.7	8.4	1	11.3	72.8	7.03.7	0.5	704.2
21-34	Total manufacturing	1,320.3	972.3	452.6	784.7	1,217.6	333.5	1.108.5	2,328.7	324.1	8.842.4	7.48	1 2 67 7 1
	Non-manufacturing (under ASIC)	2.2					: :		¥	;	10.7	į	4.747.0
	Total ANZSIC	1,322.5	972.3	452.6	784.7	1,217.6	333.5	1,108.5	2,337.3	324.1	8,853.2	: :	::
					[DT	TURNOVER (\$m)							
21	Food, heverages and tobacco	10.452.1	1			2.9					10.455.0	215.4	10.570.4
23	Textiles		1,978.3	1		i		1		1	1 978 3	F: C17	10,070.4
24	Clothing and footwear		2,322.6	1						ļ	2.322.6		2 322.6
25	Wood, wood products and furniture		22.3	906.4	J	[ļ			856.0	1.787.6	1	1.787.6
2 6	Paper, paper products, printing and publishing	ŀ	0.3	1,575.7	3,117.2		1	1	f		4,693.2	1	4.693.2
7.5	Chemical, petroleum and coal products					6,615.5		66.5			6,682.0	f	6,682.0
20 62	Non-metallic mineral products]	1	1	1,679.4				1,679.4	1	1,679.4
S 7	Basic metal products	1		I				3,948.9	1	l	3,948.9		3,948.9
F 6	Fabricated metal products	1		1		1		3,394.9		175.4	3,570.3	1	3,570.3
35	Fansport equipment		1		1 ;				6,369.0	4.7	6,373.7		6,373.7
97	Other machinery and equipment		1 2		15.2		1		5,299.5		5,314.7	105.5	5,420.1
45	Miscellaneous manutacturing		237.4		!	2,927.8	35.6	1	38.7	327.2	3,566.8	1.6	3,568.3
21.34	Total manufacturing	10,452.1	4,560.9	2,485.0	3,132.4	9,546.3	1,715.0	7,410.3	11,707.2	1,363.4	52,372.5	322.4	52,694.9
	Non-manufacturing (under ASIC)	23.2						•	22.1		45.3		
	Total ANZSIC	10,475.3	4,560.9	2,485.0	3,132.4	9,546.3	1,715.0	7,410.3	11,729.3	1,363.4	52,417.8	:	: :

(a) See paragraph 31 of the Explanamory Notes. (b) See paragraph 43 of the Explanatory Notes. (c) See paragraphs 4 to 10 of the Explanatory Notes. (d) Includes working proprietors. (e) Excludes the drawings of working proprietors.

EXPLANATORY NOTES

Introduction

This publication presents final statistics compiled from a census of manufacturing establishments for 1991-92, with some comparative statistics relating to preceding years. In this respect it should be noted that there have been extensive revisions to the data from the 1990-91 census, due to further processing of that year's data subsequent to the release of the previous issue of this publication.

- 2. For the 1991-92 manufacturing census, businesses were requested to provide data on only employment, wages and salaries paid, turnover and issues relating to environmental protection.
- 3. Manufacturing, as specified in Division C of the Australian Standard Industrial Classification (ASIC), 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

- 4. The unit for which statistics are reported in the manufacturing census 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.
- 5. 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 (refer to paragraph 10).
- 6. These new definitions were progressively implemented on the ABS central business register as reporting arrangements with individual businesses were finalised. The new management unit and establishment definitions were implemented on the ABS central business register in time for the 1990-91 census for those units classified to the manufacturing industry.
- 7. 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.
- 8. 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 1991-92, this value was \$6.6 million in terms of sales and transfers out of goods and services.) These separate establishments are then classified to the industry appropriate to their activity.
- 9. In general, data contained in this publication relate to all manufacturing establishments which operated in Victoria during the year ended 30 June 1992, except for sole proprietorships or family partnerships not employing staff at 30 June 1992. Information about these businesses was collected in the 1991 Census of Population and Housing, with summary employment information presented in Table 2 of this publication. As these data indicate, these businesses contribute only

marginally to statistical aggregates (other than number of establishments). In addition, the ABS attempts to obtain data for employing businesses which either commenced or ceased operation during the year, but it is not possible to obtain data for all of them.

Unit definitions

- 10. The standard units now in use are:
 - (a) 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.
 - (b) 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.
 - (c) Location. A location is a physical unit of the establishment. It consists usually of an unbroken physical area or site, occupied by an establishment, at which, or from which, the establishment engages in productive activity on a relatively permanent basis. An establishment can consist of one or more locations. In specified circumstances, non-contiguous sites occupied by the same establishment can be combined to form a location.

Data item definitions

- 11. Establishments at 30 June. The number of establishments in operation at 30 June.
- 12. Locations at 30 June. The number of locations in operation at 30 June.
- 13. Employment at end of June. The number of working proprietors and the number of employees on the payroll for the last pay period ending in June. (Sole proprietors and partnerships not employing others are excluded.)
- 14. Wages and salaries. The gross wages and salaries of all employees of the establishment. The drawings of working proprietors are excluded.
- 15. 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 revenue from outside the business (such as commission revenue, repair and service revenue, and rent, leasing and hiring

revenue), plus capital work done for 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.

- 16. 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.
- 17. Turnover per person employed. Turnover of manufacturing establishments which operated during the year ended 30 June divided by the total number of persons employed at the last pay period ending in June of the same year.
- 18. Manufacturing employment, August 1991. These statistics are from the 1991 Census of Population and Housing and represent those persons who were classified as being employed in the manufacturing industry. 'Sole proprietors and partnerships not employing others' were those persons that indicated that they were employed in the manufacturing industry in this category but they did not have any salaried employees. The 'Total other' employed were those persons who worked for employing units (ie total employment excluding sole proprietors and partnerships not employing others).
- 19. Manufacturing census employment at end of June 1991. The number of working proprietors and the number of employees on manufacturing establishments' payrolls for the last pay period ending in June 1991. (Sole proprietors and partnerships not employing others are excluded). These data are from the 1990-91 manufacturing census.
- 20. Demographic characteristics of persons employed, August 1991. The source of these data is the 1991 Census of Population and Housing. The statistics presented show (in percentage terms) the sex and age characteristics of persons employed in the manufacturing industry and for all industries.
- 21. Establishments that conducted environmental impact assessments or environmental audits. Establishments that either conducted their own environmental impact assessments or environmental audits (including energy audits) or contracted others to do so.
- 22. Establishments that encouraged the return of their own containers or packaging. Establishments that encouraged and/or permitted the return of containers or packaging used in the marketing or distribution of their product.

- 23. Establishments engaged in the marketing or production of goods or services for monitoring, maintaining or improving the environment. Establishments involved in marketing or producing goods or services specifically for monitoring, maintaining or improving the environment.
- 24. Proportion of total turnover. The percentage of total manufacturing industry turnover attributed to establishments that gave positive responses to questions on environmental protection issues (for Table 6). The percentage of total reported turnover (excluding single establishment businesses with less than four persons employed) of establishments that had current expenditure on environmental protection (for Table 7).
- 25. 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.
- 26. Capital expenditure to abate pollution. Expenditure on new plant, machinery or equipment designed to abate or control air, water, solid waste, noise or other pollutants by using either end-of-line techniques or change-in-production processes.

Comparability with previous statistics

- 27. As explained above, the standard units definitions were revised for the 1988-89 census and the new definitions have been implemented on the ABS central business register for units classified to the manufacturing industry.
- 28. For a detailed explanation of the various factors which affected the count of 'Number of manufacturing establishments' in the years to 1989-90, see the Appendix to the 1989-90 issue of this publication. Also, as indicated in paragraph 34 of the Explanatory Notes to that issue, there was a fairly constant level of undercoverage on the ABS central business register for the years from 1982. Coverage factors to convert previous years' data (with the exception of number of establishments) to a comparable basis with 1989-90 data are shown in Table 7 of the 1989-90 issue of this publication.
- 29. The combining of railway workshop locations (primary to ASIC class 3243) with rail transport locations (primary to ASIC class 5200) to form establishments primary to Division G: Transport and Storage (that is, out of scope of this collection) has affected time series statistics for subdivision 32 presented in this publication. The effect of this change was not present for this census.
- 30. Prior to the 1989-90 census, most commodities produced in the petroleum refining industry (ASIC class 2770) were manufactured on commission for non-manufacturing businesses from materials owned and supplied by those businesses. In these cases, manufacturing turnover reflected only the value of

commission earned by manufacturing establishments involved (not the gross value of the commodities produced). In 1989-90 and again in 1990-91 (but to a lesser extent), some businesses changed their accounting practices to report gross value of commodities produced. The effect of this change was not present for this census.

- 31. As with the 1990-91 issue, this publication no longer makes the distinction in tables presented between those single establishment businesses with less than four persons employed and all other establishments. All time series statistics included in this publication now reflect this change (except where indicated).
- 32. 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 5 and the employment size category 0 3 persons. This new category includes all establishments employing less than four persons. In most cases, data in this new employment size category equates to the 'old' category of less than four persons employed (the major exception being Subdivision 28). A detailed break up of the differences can be made available on request.

Comparability of manufacturing and population census data

- 33. There are variations between the conceptually similar population census 'Total other' and manufacturing census employment figures presented in Table 2. These variations occur because of differences in the reference periods and collection methods used.
- 34. The manufacturing census estimates relate to employment in the last pay period ending in June 1991. The population census estimates relate to employment during the week ended 6 August 1991.
- 35. The population census was conducted through selfenumeration from individual households. The manufacturing census was collected through mail forms sent to all manufacturing establishments (except for single establishment businesses not employing staff) as recorded on the ABS central business register and which operated in Australia during the year ended 30 June 1991.
- 36. In the processing of the population census, there were cases where the industry of employment was not stated by the householder or where it could not be classified from the response provided. In these cases, a not classified code was allocated, which accounted for 7.2 per cent of total employment (across all industries). In the manufacturing census, all businesses (and, thereby, their total employment) were industry coded.

Employment size data

37. Summary of operations data at the industry subdivision level classified by employment size are presented in Table 5. These statistics relate to only those manufacturing establishments operating at 30 June 1992. As such, the figures presented in Table 5 may be slightly less than those presented in the other manufacturing census tables. These other tables include data for those manufacturing establishments which operated at any time during 1991-92.

Environmental statistics

- 38. A summary of environmental protection issues data at the industry subdivision level are presented in Table 6. All manufacturing establishments were asked to provide a 'yes' or 'no' answer as to whether they participated in the environment-related activities set out. The statistics presented relate to those establishments which responded 'yes' to the relevant issues. Establishments which did not respond were treated as if they had responded 'no'.
- 39. Data contained in Table 7 relate to current and capital expenditure on environmental protection in the year ended 30 June 1992. Data were not collected from those single establishment businesses with less than four persons employed. Establishments which did not respond were treated as if they had no current or capital expenditure on environmental protection.

Statistical division data

- 40. The location data presented in Table 8 are based on additional data collected in the 1991-92 census. The extra data requested were the activity carried out at the location, the number of persons employed and the address of the location.
- 41. Employment data shown in this table are based on reported employment, but in the case of wages and salaries and turnover data they do not reflect reported data in all cases. This is because in those circumstances where an establishment operates at more than one location, the data have been synthesised to derive location-level wages and salaries and turnover data. (However, it should be noted that most establishments operate at only the one location.) The location-level synthesised data were derived by using the location data collected on activity and employment, and then prorating wages and salaries and turnover based on the reported employment.
- 42. As indicated in paragraph 7, a manufacturing establishment covers all activities of the establishment, including any non-manufacturing activities. In Table 8, the non-manufacturing locations of manufacturing establishments have been excluded. For this reason, the State totals (for location data, other than the number of locations) in Table 8 may be less than those shown in Tables 1, 4, 5 and 9 (for establishment data). However, it is also possible for the State totals in Table 8 to be greater than those shown in Tables 1, 4, 5 and 9, as a result of individual locations of establishments being allocated a different industry classification to that of the 'parent' establishment.

Introduction of ANZSIC

43. The Australian and New Zealand Standard Industrial Classification (ANZSIC) is to be fully introduced into the manufacturing statistics collection from the 1992-93 collection. This classification replaces the Australian Standard Industrial Classification currently in use. An ASIC/ANZSIC concordance of data from the 1991-92 census is presented in Table 9 as a forerunner to what users can expect in future collections. For a more detailed explanation, users attention is drawn to the introduction to Table 9 and to the Australian and New Zealand Standard Industrial Classification, 1993 (1292.0).

Related publications

44. Users may also wish to refer to the following publications:

Cost of Environmental Protection. Australia, 1991-92 (4603.0), to be released later in 1994.

Manufacturing Technology Statistics, Australia, 31 December 1991 (8123.0), released on 22 February 1993.

Quarterly Indexes of Industrial Production, Australia (8125.0).

Business Operations and Industry Performance, Australia, 1991-92 (8140.0), released on 31 August 1993

Business Operations and Industry Performance, Australia, 1992-93 (8140.0), released on 22 June 1994.

Manufacturing Industry, Australia, 1992-93, Preliminary (8201.0), released on 25 August 1994.

Manufacturing Industry, Australia, 1991-92 (8221.0), released on 21 February 1994.

Manufacturing Production, Australia: Principal Commodities Produced, 1989-90 (8365.0), released on 4 February 1994.

Monthly and quarterly commodity data

45. A number of publications are produced each month or quarter showing monthly details of the quantity

produced of an extensive range of the more important commodities manufactured in Australia (some 600 in all). These publications include *Production Statistics*, *Australia*, *Preliminary* (8301.0) and a series of ten publications each relating to a particular range of products (8357.0 to 8369.0).

Back data and unpublished statistics

46. A range of manufacturing industry statistics publications is available for previous years. As well, a considerable amount of data from the manufacturing census 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.

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
r	figure or series revised since previous
	issue
	nil or rounded to zero

47. Where figures have been rounded, discrepancies may occur between totals and the sums of the component items.

Unpublished data from the Manufacturing Census

A considerable amount of data from the manufacturing census exists in unpublished form.

More detailed information to satisfy individual user requirements may be available on request.

Some examples of the information available include:

Industry concentration statistics: are published at the 2 digit ASIC level for Australia and

are available at more detailed levels on request.

Small business statistics: a range of data for Australia and the States are

published and are available at more detailed levels

on request.

Small area data: information at the two digit ASIC level are published for

Statistical Divisions and are available for selected Statistical Local Areas and Statistical Subdivisions

throughout Australia on request.



Further details can be obtained by contacting the Manufacturing Publishing and Consultancy Area in ABS NSW on (02) 268 4245.

Business and Industry Profiles

Business Profiles contain a core of industry averages and financial accounting ratios from

the manufacturing census database at the four digit (most detailed) level

of the ASIC, usually by size of business, for a single ASIC level.

Business Profiles also include industry concentration statistics and environmental data.

Business Profiles are available now.

Industry Profiles contain similar core information as in the Business Profiles for all

the ASICs in an Industry Sub-division (two digit ASIC level).

Industry Profiles also have a very wide selection of survey data from around the ABS

at the lowest level of the ASIC for which it is available, either

published or unpublished.

Industry Profiles contain a selection of commodity data from the manufacturing census

along with imports and exports information for the same commodities.

Industry Profiles will be released progressively over the next few months.



For more information please telephone John Ridley, Manager Economic Statistics Unit in ABS NSW on (02) 268 4237.



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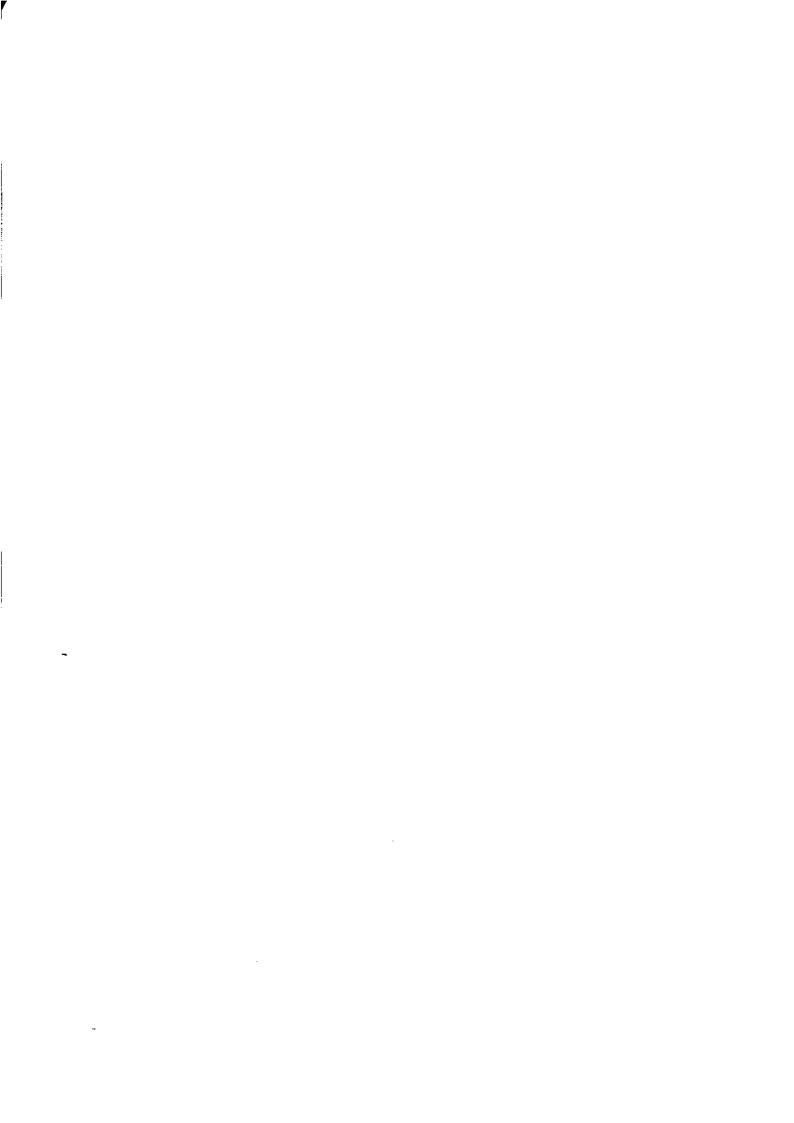
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