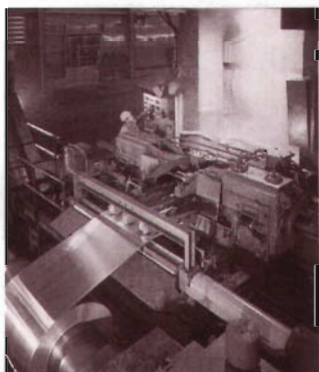


# 7 Manufacturing, Mining, and Energy



## MANUFACTURING

### Overview

Manufacturing remains the most significant industry in terms of its contribution to the State's Gross Domestic Product (GDP) at factor cost. However, its share of GDP has been steadily declining, dropping from 23.1 per cent in 1982 to 21.2 per cent in 1988-89.

A similar pattern occurred at the national level with manufacturing's share of GDP at factor cost dropping from 18.6 per cent to 17.4 per cent.

### Victoria compared with Australia

In 1988-89, Victorian manufacturing industry contributed 50 per cent or more of the Australian manufacturing industry's turnover in the Transport equipment (51 per cent), Clothing and footwear (53 per cent), and Textiles (52 per cent) ASIC subdivisions.

Victorian based establishments accounted for 52 per cent of employment within the Australian Textiles, and Clothing and footwear manufacturing industries during 1988-89.

Victorian manufacturing industry invested \$2,698m in private new fixed capital expenditure during 1988-89. This compared with \$2,595m, in 1987-88.

### Number of establishments

Over the period 1982-83 to 1988-89, the number of Victorian manufacturing establishments with four or more persons employed increased from 8,392 to 9,771 (16.4 per cent).

However, the increase applied predominantly to establishments in the employment size range of 4 to 100 persons, where the number of establishments increased by 11.1 per cent. The largest increase in the number of manufacturing establishments occurred between 1986-87 (9,109 establishments operating) and 1987-88 (9,858 operating).

### Employment

During May 1989, manufacturing employment comprised 19.6 per cent of the Victorian labour force, compared with 24.2 per cent in May 1982.

Between 1982-83 and 1988-89 employment in the Victorian manufacturing sector increased from 349,679 persons to 367,376 an increase of 0.5 per cent. The year to year movements have fluctuated considerably, ranging from a decrease of 10.1 per cent in 1982-83 to an increase of 2.9 per cent in 1987-88.

On an industry sub-division basis, the only decrease in employment between 1982-83 and 1988-89 occurred in the Chemical, petroleum, and coal products sub-division (down 1,139 or 5.6 per cent). Conversely the Paper, paper products, printing and publishing sub-division recorded an increase of 4,118 persons (12.4 per cent) employed during the period under review.

### **Melbourne Statistical Division (MSD)**

The number of manufacturing establishments with four or more employees in the MSD increased from 6,734 in 1982-83 to 7,884 in 1988-89; however manufacturing employment fell from 300,741 persons to 296,562 persons during the same period.

In 1988-89, 80.7 per cent of persons employed by the Victorian manufacturing industry worked for establishments located within the Melbourne Statistical Division.

### **Turnover and value added**

Turnover of Victorian manufacturing establishments at current prices increased by 86.2 per cent between 1982-83 and 1988-89. Value added increased by 46.4 per cent between 1982-83 and 1986-87 in current price terms. Data for value added by Victorian manufacturing establishments were not collected in respect of 1987-88 and 1988-89.

Within individual industry subdivisions, the greatest percentage increase in turnover at current prices was 121.2 per cent in the Non-metallic mineral products sub-division, followed by the Paper, paper products, printing and publishing sub-division with an increase of 101.0 per cent.

In constant price terms, the Non-metallic mineral products sub-division reported the greatest increase in turnover at 55.3 per cent. Other significant increases were 44.4 per cent for the Paper, paper products, printing and publishing sub-division, and 36.9 per cent for the Basic metal products sub-division. At the other end of the scale, the Wood, wood products and furniture sub-division showed a reduction of 6.1 per cent in turnover at constant prices between 1982-83 and 1988-89.

### **Wages and salaries**

Despite the decline in employment within Victorian manufacturing establishments, wages and salaries paid increased by 7.0 per cent (from \$8,302m to \$8,885m) over the period 1987-88 to 1988-89. On the other hand, turnover at current prices increased by 13.4 per cent over the same period. Between 1982-83 and 1988-89 wages and salaries increased by 49.3 per cent, while turnover at current prices increased by 86.2 per cent.

### **Major manufacturing industries**

In 1988-89, the Transport equipment industry made the greatest contribution to Victorian manufacturing industry in terms of employment and turnover. It provided 14.2 per cent and 14.5 per cent respectively.

The Wood, wood products, and furniture and Fabricated metal products industry subdivisions contained the greatest number of manufacturing establishments with 1,385 and 1,305, respectively.

### **Industry profile - Transport equipment Victoria (ASIC subdivision 32)**

At 30 June 1989, there were 451 establishments classified to the Transport equipment ASIC subdivision. These establishments contributed 14.2 per cent of Victoria's manufacturing employment. Victorian based establishments accounted for 45.1 per cent of employment within the Australian Transport equipment industry.

Between 1983 and 1989, Victorian employment within the subdivision decreased by 3.8 per cent while the number of manufacturing establishments increased by 20.6 per cent.

Wages per person employed rose by 41.0 per cent during this period.

During the six year period under review, the motor vehicle and parts industry group showed an overall increase in the number of establishments and employment, by 13.4 and 4.1 per cent respectively. The other transport equipment industry group provided a 52.9 per cent increase in the number of establishments, but experienced a drop in employment of 25.1 per cent. Turnover for both industry groups increased, by 95.1 per cent for motor vehicles and parts, and by 42.8 per cent for other transport.

**TABLE 7.1 MANUFACTURING ACTIVITY, VICTORIA, 1901 TO 1967-68**

<i>Year</i>	<i>Manufacturing establishments</i>	<i>Employment (a)</i>	<i>Wages and salaries paid (b)</i>	<i>Turnover (c)</i>	<i>Materials and fuel used</i>	<i>Value added (d)</i>	<i>Fixed capital expenditure less disposals (e)</i>
	number	number	\$m	\$m	\$m	\$m	\$m
1901	3,249	66,529	n.a.	n.a.	n.a.	n.a.	25
1911	5,126	111,948	18	84	51	32	28
1920-21	6,532	140,743	43	212	135	77	71
1932-33	8,612	144,428	42	204	122	82	136
1946-47	10,949	265,757	156	631	368	263	244
1953-54	15,533	331,277	472	1,971	1,154	817	679
1960-61	17,173	388,050	776	3,332	1,914	1,418	1,642
1965-66	17,980	439,149	1,077	4,625	2,597	2,028	2,386
1967-68	18,030	449,945	1,244	5,351	2,957	2,395	2,685

(a) Average over whole year, including working proprietors.

(b) Excludes drawings of working proprietors.

(c) Output, excluding other revenue.

(d) Value added in process of production (ie. value of output less value of materials and fuel, etc., used).

(e) Comprises land, buildings, plant, and machinery.

**TABLE 7.2 MANUFACTURING ACTIVITY, VICTORIA, 1968-69 TO 1988-89**

<i>Manufacturing establishments (a)</i>	<i>Employment (b)</i>	<i>Wages and salaries paid (c)</i>	<i>Turnover</i>	<i>Purchases, transfers in and selected expenses</i>	<i>Value added (d)</i>	<i>Fixed capital expenditure less disposals</i>	
number	number	\$m	\$m	\$m	\$m	\$m	
1968-69	11,563	440,236	1,342	6,336	3,861	2,542	278
1969-70	11,393	450,352	1,497	6,998	4,307	2,799	300
1980-81	8,726	391,801	5,032	23,856	14,814	9,440	712
1981-82	8,916	388,872	5,757	27,208	17,031	10,578	1,046
1982-83	8,392	349,679	5,950	27,747	17,060	10,649	998
1983-84	8,404	354,409	6,059	30,081	18,405	11,779	779
1984-85	8,499	357,989	6,551	33,436	20,782	13,154	1,035
1986-87	9,107	354,771	7,390	39,829	24,591	15,596	n.a.
1987-88	9,858	367,603	8,302	45,577	n.a.	n.a.	n.a.
1988-89	9,771	367,376	8,885	51,680	n.a.	n.a.	n.a.

(a) All manufacturing establishments in operation at 30 June, owned by multi-establishment enterprises and single establishment enterprises with four or more persons employed. Note that the 1968-69 and 1969-70 figures include establishments with fewer than four employees.

(b) As at 30 June including working proprietors.

(c) Excludes drawings of working proprietors.

(d) Value added is calculated by adding to turnover the increase (or deducting the decrease) in value of stock and deducting the value of purchases and selected items of expense.

Note: There was no manufacturing census conducted in respect of 1985-86.

**TABLE 7.3 MANUFACTURING ESTABLISHMENTS (a) BY INDUSTRY SUBDIVISION, VICTORIA, 1988-89**

ASIC code	Industry subdivision	Establishments operating at 30 June		Wages and salaries paid (c)	Turnover
		number	Employment (b) '000	\$m	\$m
21	Food, beverages, and tobacco	1,136	52.4	1,193	9,767
23	Textiles	302	17.4	400	2,110
24	Clothing and footwear	1,059	38.2	712	2,742
25	Wood, wood products, and furniture	1,385	22.0	445	1,995
26	Paper, paper products, printing, and publishing	1,071	37.4	986	4,743
27	Chemical, petroleum, and coal products	309	19.0	586	4,387
28	Non-metallic mineral products	378	11.5	326	1,956
29	Basic metal products	214	13.0	389	3,922
31	Fabricated metal products	1,305	32.8	777	3,700
32	Transport equipment	451	52.3	1,310	7,514
33	Other machinery and equipment	1,271	45.3	1,142	5,542
34	Miscellaneous manufacturing	890	26.0	619	3,297
<b>Total</b>		<b>9,771</b>	<b>367.3</b>	<b>8,885</b>	<b>51,675</b>

(a) All manufacturing establishments owned by multi-establishment enterprises and single establishment manufacturing enterprises with four or more persons employed.

(b) At 30 June including working proprietors.

(c) Excludes drawings of working proprietors.

**TABLE 7.4 MANUFACTURING ESTABLISHMENTS (a) BY INDUSTRY SUBDIVISION, PERCENTAGE OF AUSTRALIAN TOTALS, VICTORIA, 1988-89 (per cent)**

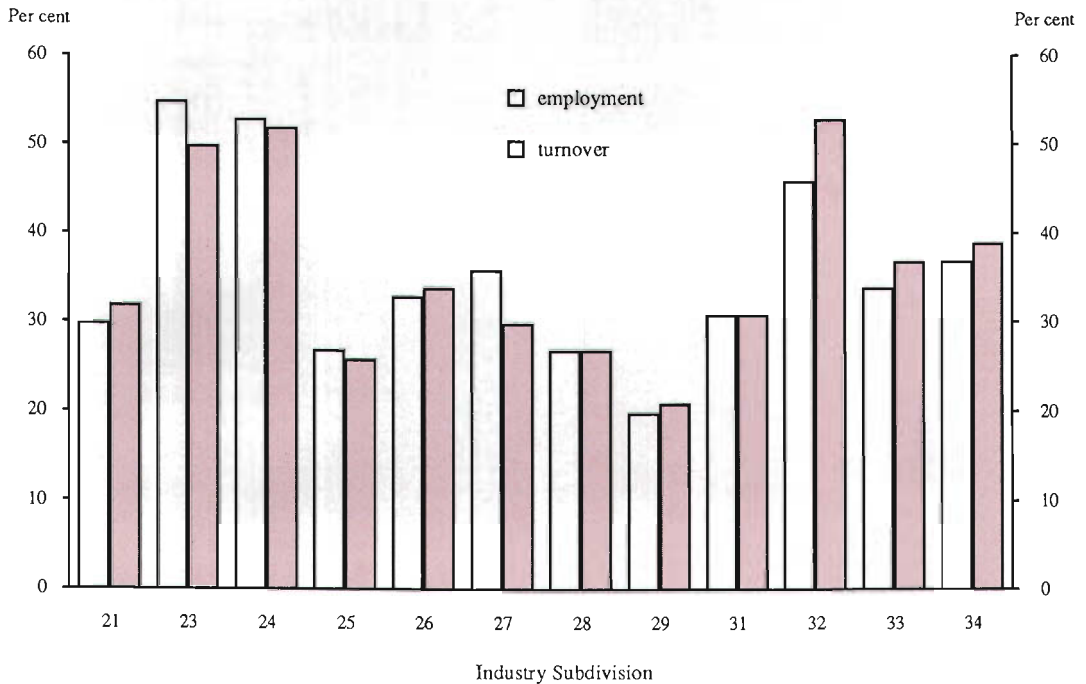
ASIC code	Industry subdivision	Establishments operating at 30 June		Wages and salaries paid (c)	Turnover
			Employment (b)		
21	Food, beverages, and tobacco	30	30	30	32
23	Textiles	42	54	56	52
24	Clothing and footwear	46	52	54	53
25	Wood, wood products, and furniture	29	26	27	25
26	Paper, paper products, printing, and publishing	31	33	34	35
27	Chemical, petroleum, and coal products	33	36	37	32
28	Non-metallic mineral products	25	27	29	27
29	Basic metal products	36	18	17	20
31	Fabricated metal products	27	30	32	31
32	Transport equipment	28	45	46	51
33	Other machinery and equipment	31	33	34	36
34	Miscellaneous manufacturing	34	39	41	40
<b>Total manufacturing</b>		<b>31</b>	<b>34</b>	<b>35</b>	<b>34</b>

(a) All manufacturing establishments in operation at 30 June, owned by multi-establishment enterprises and single establishment enterprises with four or more persons employed.

(b) As at 30 June including working proprietors.

(c) Excludes drawings of working proprietors.

**MANUFACTURING ESTABLISHMENTS: SELECTED VARIABLES  
BY INDUSTRY SUBDIVISION,  
PERCENTAGE OF AUSTRALIAN TOTALS, 1988-89**



**TABLE 7.5 MANUFACTURING ESTABLISHMENTS (a), 1988-89**

<i>State or Territory</i>	<i>Establishments operating at 30 June</i>	<i>Employment (b)</i>	<i>Wages and salaries paid (c)</i>	<i>Turnover</i>
	number	number	\$m	\$m
New South Wales	10,469	361,636	9,008	51,680
<b>Victoria</b>	<b>9,771</b>	<b>367,376</b>	<b>8,885</b>	<b>51,675</b>
Queensland	4,841	133,743	2,849	20,091
South Australia	2,543	103,096	2,315	13,076
Western Australia	2,650	72,390	1,700	10,529
Tasmania	676	26,933	648	3,835
Northern Territory	158	3,280	86	542
Australian Capital Territory	142	4,014	102	436
<b>Total</b>	<b>31,250</b>	<b>1,072,468</b>	<b>25,593</b>	<b>151,864</b>

(a) All manufacturing establishments in operation at 30 June, owned by multi-establishment enterprises and single establishment enterprises with four or more persons employed.

(b) As at 30 June including working proprietors.

(c) Excludes drawings of working proprietors.

**TABLE 7.6 NUMBER OF MANUFACTURING ESTABLISHMENTS (a) BY INDUSTRY  
SUBDIVISION VICTORIA**

<i>ASIC code</i>	<i>Industry sub-division</i>	<i>1982-83</i>	<i>1983-84</i>	<i>1984-85</i>	<i>1986-87</i>	<i>1987-88</i>	<i>1988-89</i>
21	Food, beverages, and tobacco	966	991	1,003	1,102	1,242	1,136
23	Textiles	307	295	304	300	313	302
24	Clothing and footwear	943	932	955	1,030	1,089	1,059
25	Wood, wood products, and furniture	1,074	1,086	1,124	1,261	1,363	1,385
26	Paper, paper products, printing, and publishing	881	889	899	947	1,023	1,071
27	Chemical, petroleum, and coal products	289	288	278	284	301	309
28	Non-metallic mineral products	392	390	388	421	439	378
29	Basic metal products	191	177	175	203	202	214
31	Fabricated metal products	1,086	1,079	1,074	1,139	1,283	1,305
32	Transport equipment	374	381	383	403	421	451
33	Other machinery and equipment	1,159	1,162	1,173	1,189	1,317	1,271
34	Miscellaneous manufacturing	730	734	743	828	865	890
<b>Total</b>		<b>8,392</b>	<b>8,404</b>	<b>8,499</b>	<b>9,107</b>	<b>9,858</b>	<b>9,771</b>

(a) See footnote to Table 7.2.

**TABLE 7.7 MANUFACTURING ESTABLISHMENTS (a) CLASSIFIED ACCORDING TO  
NUMBER OF PERSONS EMPLOYED (INCLUDING WORKING PROPRIETORS),  
VICTORIA**

<i>Manufacturing establishments employing persons numbering -</i>	<i>At 30 June 1988</i>		<i>At 30 June 1989</i>	
	<i>Number of establishments</i>	<i>Number of persons employed</i>	<i>Number of establishments</i>	<i>Number of persons employed</i>
Less than 10	4,656	} 56,361	} 6,818	} 56,791
10 to 19	2,202			
20 to 49	1,568	47,450	1,538	46,541
50 to 99	680	48,051	656	46,091
100 to 199	428	58,817	414	56,893
200 to 499	243	70,825	258	74,613
500 to 999	55	37,327	61	42,134
1,000 and over	26	39,423	26	44,313
<b>Total</b>	<b>9,858</b>	<b>358,254</b>	<b>9,771</b>	<b>367,376</b>

(a) All manufacturing establishments owned by multi-establishment enterprises and single establishment manufacturing enterprises with four or more persons employed. In addition, there were 3,148 single establishment enterprises employing 6,933 persons in the one to three persons employed group for 1988-89.

**TABLE 7.8 PERSONS EMPLOYED (a) IN MANUFACTURING ESTABLISHMENTS, BY INDUSTRY SUBDIVISION, VICTORIA**

ASIC code	Industry subdivision	1982-83	1983-84	1984-85	1986-87	1987-88	1988-89
21	Food, beverages, and tobacco	48,867	48,604	49,246	48,802	51,700	52,389
23	Textiles	17,150	17,794	18,009	19,129	19,420	17,417
24	Clothing and footwear	40,887	43,189	42,926	41,475	40,145	38,251
25	Wood, wood products, and furniture	17,743	18,520	19,466	21,215	21,952	22,037
26	Paper, paper products, printing, and publishing	33,335	34,106	34,201	35,221	36,078	37,453
27	Chemical, petroleum, and coal products	20,160	19,699	19,759	19,329	19,568	19,021
28	Non-metallic mineral products	10,802	10,472	10,280	10,625	11,001	11,491
29	Basic metal products	12,734	12,747	12,579	13,431	14,734	12,984
31	Fabricated metal products	30,612	30,163	29,789	30,445	32,930	32,787
32	Transport equipment	51,368	53,927	55,403	47,959	50,401	52,292
33	Other machinery and equipment	43,512	42,271	43,295	43,773	45,162	45,253
34	Miscellaneous manufacturing	22,509	22,917	23,036	23,367	24,512	26,001
<b>Total</b>		<b>349,679</b>	<b>354,409</b>	<b>357,989</b>	<b>354,771</b>	<b>367,603</b>	<b>367,376</b>

(a) Employment at 30 June including working proprietors.

**TABLE 7.9 MANUFACTURING ESTABLISHMENTS (a), TYPE OF EMPLOYMENT, VICTORIA**

At 30 June	Working proprietors	Administrative, office, sales, and distribution employees (b)	Production and all other employees (b)	Total
1982	3,475	98,178	287,219	388,872
1983	2,869	89,517	257,293	349,679
1984	2,906	88,879	262,624	354,409
1985	2,630	88,809	266,550	357,989
1987	1,954	98,059	254,758	354,771
1988	2,815		364,788	367,603
1989	2,484		364,892	367,376

(a) See footnote to Table 7.2.

(b) Separate data is not available for 1987-88 and 1988-89.

**TABLE 7.10 MANUFACTURING ESTABLISHMENTS (a), TYPE OF EMPLOYMENT BY INDUSTRY SUBDIVISION, VICTORIA, AT 30 JUNE 1989**

ASIC code	Industry subdivision	Working proprietors	Employees (b)	Total
21	Food, beverages, and tobacco	560	51,829	52,389
23	Textiles	40	17,377	17,417
24	Clothing and footwear	335	37,916	38,251
25	Wood, wood products, and furniture	445	21,592	22,037
26	Paper, paper products, printing, and publishing	209	37,244	37,453
27	Chemical, petroleum, and coal products	21	19,000	19,021
28	Non-metallic mineral products	71	11,420	11,491
29	Basic metal products	35	12,949	12,984
31	Fabricated metal products	300	32,487	32,787
32	Transport equipment	96	52,196	52,292
33	Other machinery and equipment	203	45,050	45,253
34	Miscellaneous manufacturing	169	25,832	26,001
<b>Total</b>		<b>2,484</b>	<b>364,892</b>	<b>367,367</b>

(a) See footnote to Table 7.2.

(b) See footnote to Table 7.9.

**TABLE 7.11 MANUFACTURING ESTABLISHMENTS (a), TURNOVER (b) BY INDUSTRY SUBDIVISION, VICTORIA**  
(Sm)

ASIC code	Industry subdivision	1982-83	1983-84	1984-85	1986-87	1987-88	1988-89
21	Food, beverages, and tobacco	5,959	6,266	6,673	7,734	8,884	9,767
23	Textiles	1,087	1,219	1,370	1,750	1,963	2,110
24	Clothing and footwear	1,717	1,926	2,057	2,392	2,444	2,742
25	Wood, wood products, and furniture	1,014	1,115	1,292	1,587	1,798	1,995
26	Paper, paper products, printing, and publishing	2,262	2,499	2,833	3,612	4,097	4,743
27	Chemical, petroleum, and coal products	2,451	2,668	2,876	3,400	3,837	4,387
28	Non-metallic mineral products	884	1,001	1,188	1,393	1,597	1,956
29	Basic metal products	1,721	2,116	2,397	3,082	3,460	3,922
31	Fabricated metal products	1,953	2,037	2,186	2,548	3,113	3,700
32	Transport equipment	4,014	4,269	5,159	5,624	6,762	7,514
33	Other machinery and equipment	2,987	3,055	3,325	4,253	4,809	5,542
34	Miscellaneous manufacturing	1,701	1,911	2,080	2,457	2,814	3,297
<b>Total</b>		<b>27,747</b>	<b>30,081</b>	<b>33,436</b>	<b>39,829</b>	<b>45,577</b>	<b>51,675</b>

(a) See footnote to Table 7.2.

(b) Turnover includes sales of goods whether produced by an establishment or not, transfers out of goods to other establishments of the same enterprise, bounties and subsidies on production plus all other operating revenue from outside the enterprise.

**TABLE 7.12 MANUFACTURING ESTABLISHMENTS (a), PURCHASES, TRANSFERS IN, AND SELECTED ITEMS OF EXPENSE (b) BY INDUSTRY SUBDIVISION, VICTORIA**  
(Sm)

ASIC code	Industry subdivision	1982-83	1983-84	1984-85	1986-87	1987-88	1988-89
21	Food, beverages, and tobacco	4,145	4,198	4,495	5,112	n.a.	n.a.
23	Textiles	658	741	863	1,040	n.a.	n.a.
24	Clothing and footwear	894	1,030	1,115	1,294	n.a.	n.a.
25	Wood, wood products, and furniture	571	628	744	942	n.a.	n.a.
26	Paper, paper products, printing, and publishing	1,213	1,325	1,530	1,841	n.a.	n.a.
27	Chemical, petroleum, and coal products	1,518	1,619	1,711	2,061	n.a.	n.a.
28	Non-metallic mineral products	470	515	629	797	n.a.	n.a.
29	Basic metal products	1,258	1,592	1,885	2,339	n.a.	n.a.
31	Fabricated metal products	1,076	1,137	1,234	1,444	n.a.	n.a.
32	Transport equipment	2,601	2,760	3,468	3,828	n.a.	n.a.
33	Other machinery and equipment	1,618	1,703	1,856	2,408	n.a.	n.a.
34	Miscellaneous manufacturing	1,037	1,156	1,252	1,487	n.a.	n.a.
<b>Total</b>		<b>17,060</b>	<b>18,405</b>	<b>20,782</b>	<b>24,591</b>	<b>n.a.</b>	<b>n.a.</b>

(a) See footnote to Table 7.2.

(b) Includes purchases of materials, fuel, power, containers, etc., and goods for resale, plus transfers in of goods from other establishments of the enterprise, plus charges for commission and sub-contract work, repair and maintenance expenses, outward freight and cartage, motor vehicle running expenses, sales commission payments, rent, leasing, and hiring expenses.



**TABLE 7.13 MANUFACTURING ESTABLISHMENTS (a), STOCKS (b) BY INDUSTRY  
SUBDIVISION, VICTORIA  
(Sm)**

<i>ASIC code</i>	<i>Industry subdivision</i>	<i>1982-83</i>	<i>1983-84</i>	<i>1984-85</i>	<i>1986-87</i>	<i>1987-88</i>	<i>1988-89</i>
<b>OPENING STOCKS</b>							
21	Food, beverages, and tobacco	646	741	744	657	n.a.	n.a.
23	Textiles	204	192	212	270	n.a.	n.a.
24	Clothing and footwear	289	280	316	374	n.a.	n.a.
25	Wood, wood products, and furniture	140	136	151	201	n.a.	n.a.
26	Paper, paper products, printing, and publishing	291	285	291	358	n.a.	n.a.
27	Chemical, petroleum, and coal products	404	420	452	610	n.a.	n.a.
28	Non-metallic mineral products	121	132	120	144	n.a.	n.a.
29	Basic metal products	293	258	273	307	n.a.	n.a.
31	Fabricated metal products	364	306	316	343	n.a.	n.a.
32	Transport equipment	674	709	660	885	n.a.	n.a.
33	Other machinery and equipment	781	720	682	979	n.a.	n.a.
34	Miscellaneous manufacturing	274	266	269	290	n.a.	n.a.
<b>Total</b>		<b>4,480</b>	<b>4,444</b>	<b>4,486</b>	<b>5,418</b>	<b>n.a.</b>	<b>n.a.</b>
<b>CLOSING STOCKS</b>							
21	Food, beverages, and tobacco	722	764	769	690	n.a.	n.a.
23	Textiles	195	211	242	310	n.a.	n.a.
24	Clothing and footwear	287	320	345	422	n.a.	n.a.
25	Wood, wood products, and furniture	140	155	174	231	n.a.	n.a.
26	Paper, paper products, printing, and publishing	291	286	343	380	n.a.	n.a.
27	Chemical, petroleum, and coal products	425	463	471	652	n.a.	n.a.
28	Non-metallic mineral products	132	119	125	148	n.a.	n.a.
29	Basic metal products	275	268	311	334	n.a.	n.a.
31	Fabricated metal products	320	324	336	378	n.a.	n.a.
32	Transport equipment	665	677	780	960	n.a.	n.a.
33	Other machinery and equipment	737	686	789	944	n.a.	n.a.
34	Miscellaneous manufacturing	253	273	301	328	n.a.	n.a.
<b>Total</b>		<b>4,442</b>	<b>4,546</b>	<b>4,986</b>	<b>5,777</b>	<b>n.a.</b>	<b>n.a.</b>

(a) See footnote to Table 7.2.

(b) Figures include finished goods, work-in-progress and stocks of materials, fuels, etc. Note that due to reporting differences on individual returns and variations in number of establishments from year to year the closing stocks in one year may differ from the opening stocks in the following year.

TABLE 7.14 MANUFACTURING ESTABLISHMENTS (a), VALUE ADDED (b) BY  
INDUSTRY SUBDIVISION, VICTORIA  
(Sm)

ASIC code	Industry subdivision	1982-83	1983-84	1984-85	1986-87	1987-88	1988-89
21	Food, beverages, and tobacco	1,890	2,092	2,203	2,654	n.a.	n.a.
23	Textiles	420	497	538	749	n.a.	n.a.
24	Clothing and footwear	821	937	973	1,146	n.a.	n.a.
25	Wood, wood products, and furniture	443	505	572	675	n.a.	n.a.
26	Paper, paper products, printing, and publishing	1,049	1,174	1,354	1,792	n.a.	n.a.
27	Chemical, petroleum, and coal products	953	1,093	1,184	1,380	n.a.	n.a.
28	Non-metallic mineral products	425	473	563	600	n.a.	n.a.
29	Basic metal products	445	534	549	769	n.a.	n.a.
31	Fabricated metal products	833	918	973	1,139	n.a.	n.a.
32	Transport equipment	1,403	1,476	1,811	1,871	n.a.	n.a.
33	Other machinery and equipment	1,324	1,319	1,575	1,811	n.a.	n.a.
34	Miscellaneous manufacturing	643	761	859	1,008	n.a.	n.a.
<b>Total</b>		<b>10,649</b>	<b>11,779</b>	<b>13,154</b>	<b>15,596</b>	<b>n.a.</b>	<b>n.a.</b>

(a) See footnote to Table 7.2.

(b) Value added is calculated by adding to turnover the increase (or deducting the decrease) in value of stock and deducting the value of purchases and selected items of expenditure.

TABLE 7.15 MANUFACTURING ESTABLISHMENTS (a) BY STATISTICAL DIVISION,  
VICTORIA, AT 30 JUNE 1988

Statistical division	Establishments operating at 30 June	Employment at 30 June			Wages and salaries paid	Turnover
		Males	Females	Persons		
	number	number	number	number	\$m	\$m
Melbourne	7,884	203,782	92,780	296,562	7,246	40,887
Barwon	347	14,744	4,843	19,587	493	3,126
South Western	133	4,547	1,480	6,027	145	1,218
Central Highlands	219	5,960	2,220	8,180	192	899
Wimmera	67	886	531	1,417	25	135
Northern Mallee	108	1,182	386	1,568	30	249
Loddon-Campaspe	256	6,748	3,594	10,342	209	1,009
Goulburn	249	5,145	2,063	7,208	163	1,211
North Eastern	144	4,911	1,701	6,612	153	1,251
East Gippsland	105	1,592	540	2,132	39	263
Central Gippsland	191	4,397	1,539	5,936	151	1,112
East Central	68	1,268	537	1,805	38	315
<b>Total</b>	<b>9,771</b>	<b>255,162</b>	<b>112,214</b>	<b>367,376</b>	<b>8,885</b>	<b>51,675</b>

(a) See footnote to Table 7.2.

TABLE 7.16 NUMBER OF MANUFACTURING ESTABLISHMENTS (a) AND PERSONS EMPLOYED IN EACH STATISTICAL DIVISION, CLASSIFIED ACCORDING TO INDUSTRY SUB-DIVISION, VICTORIA, 1988-89

ASIC code	Industry sub-division	Statistical division												Total
		South		Central		Northern		Loddon-	North		East	Central	East	
		Melbourne	Barwon	Western	Highlands	Wimmera	Mallee	Campaspe	Goulburn	Eastern	Gippsland	Gippsland	Central	
<b>NUMBER OF MANUFACTURING ESTABLISHMENTS</b>														
21	Food, beverages, and tobacco	695	46	36	45	22	32	61	72	40	24	46	17	1,136
23	Textiles	243	20	n.p.	7	n.p.	n.p.	7	6	n.p.	n.p.	5	n.p.	302
24	Clothing and footwear	963	30	5	9	n.p.	n.p.	15	13	n.p.	n.p.	10	n.p.	1,059
25	Wood, wood products, and furniture	1,060	63	22	34	11	13	25	42	24	38	33	20	1,385
26	Paper, paper products, printing, and publishing	904	23	12	12	7	14	31	25	13	9	15	6	1,071
27	Chemical, petroleum, and coal products	269	17	n.p.	n.p.	-	n.p.	5	n.p.	n.p.	-	n.p.	n.p.	309
28	Non-metallic mineral products	210	23	10	22	6	12	28	21	12	8	20	6	378
29	Basic metal products	165	14	n.p.	7	n.p.	n.p.	8	n.p.	n.p.	n.p.	n.p.	-	214
31	Fabricated metal products	1,106	46	10	25	4	5	30	21	31	9	30	n.p.	1,305
32	Transport equipment	374	14	7	12	-	7	11	13	n.p.	n.p.	6	n.p.	451
33	Other machinery and equipment	1,100	25	10	28	5	13	22	22	20	7	15	4	1,271
34	Miscellaneous manufacturing	794	26	8	15	5	5	13	8	7	n.p.	5	n.p.	890
<b>Total</b>		<b>7,884</b>	<b>347</b>	<b>133</b>	<b>219</b>	<b>67</b>	<b>108</b>	<b>256</b>	<b>243</b>	<b>144</b>	<b>105</b>	<b>191</b>	<b>68</b>	<b>9,771</b>
<b>NUMBER OF PERSONS EMPLOYED</b>														
21	Food, beverages, and tobacco	31,906	1,525	2,348	2,148	492	725	2,816	3,982	3,084	766	1,668	929	52,389
23	Textiles	12,100	1,866	n.p.	315	n.p.	n.p.	654	278	n.p.	n.p.	282	n.p.	17,417
24	Clothing and footwear	31,095	2,316	716	472	n.p.	n.p.	1,874	519	n.p.	n.p.	566	n.p.	38,521
25	Wood, wood products, and furniture	16,976	795	510	935	114	94	310	560	310	775	469	189	22,037
26	Paper, paper products, printing, and publishing	32,151	781	268	313	97	223	639	508	501	175	1,675	138	37,453
27	Chemical, petroleum, and coal products	16,873	1,637	n.p.	n.p.	-	n.p.	32	n.p.	n.p.	-	n.p.	n.p.	19,021
28	Non-metallic mineral products	8,448	1,310	61	537	45	52	363	170	184	62	213	13	11,491
29	Basic metal products	8,626	2,488	n.p.	450	n.p.	n.p.	226	n.p.	n.p.	n.p.	80	-	12,984
31	Fabricated metal products	28,707	463	214	395	40	49	906	354	310	76	575	198	32,787
32	Transport equipment	44,382	4,950	68	1,341	-	126	1,105	217	n.p.	n.p.	49	n.p.	52,292
33	Other machinery and equipment	40,835	752	366	1,106	96	183	823	464	421	40	126	650	45,253
34	Miscellaneous manufacturing	24,299	204	177	131	86	34	594	71	126	n.p.	127	n.p.	26,001
<b>Total</b>		<b>296,562</b>	<b>19,587</b>	<b>6,027</b>	<b>8,180</b>	<b>1,417</b>	<b>1,568</b>	<b>10,342</b>	<b>7,208</b>	<b>6,612</b>	<b>2,132</b>	<b>5,936</b>	<b>1,805</b>	<b>367,376</b>

(a) See footnote to Table 7.2.

TABLE 7.17 SELECTED ARTICLES MANUFACTURED, 1989-90

Article	Unit	Victoria	Australia	Victoria as a percentage of Australia
Meat (carcass weight) -				
Beef and veal	'000 tonnes	321p	1,679p	19.1
Mutton	'000 tonnes	69p	333p	20.7
Lamb	'000 tonnes	111p	295p	37.6
Pigmeat	'000 tonnes	66p	317p	20.8
Dairy products -				
Whole milk	ml. litres	3,787	6,262	60.5
Butter	tonnes	91,423	105,510	86.6
Cheese	tonnes	103,216	175,331	58.9
Ice cream	'000 litres	61,073	196,899	31.0
Flour, white	tonnes	266,842	1,231,471	21.7
Yarns -				
Cotton	tonnes	8,605	21,063	40.9
Wool	tonnes	14,896	22,951	64.9
Woven cloth -				
Cotton	'000 sq metres	16,992	40,059	42.4
Wool	'000 sq metres	2,679	8,459	31.7
Cars and station wagons	'000	223	384	58.1
Plastic and synthetic resins	'000 tonnes	673	977	68.9
Building materials -				
Clay bricks	million	439	2,060	21.3
Terracotta and concrete roofing tiles	'000 sq. metres	5,228	23,028	22.7
Ready mixed concrete	'000 cu. metres	4,256	16,690	25.5

## Exports

Between 1986-87 and 1988-89, the value of Victorian manufactured goods exported increased by 22.5 per cent at market prices. Victoria's contribution to the Australian total also increased during this period, from 23.5 per cent to 28.1 per cent.

Basic metal products showed a significant increase in exports of 93.8 per cent during the period under review. Its share of total manufacturing exports also increased, from 16.7 per cent to 26.4 per cent.

Other sub-divisions to show a significant increase for Victoria during the period 1986-87 to 1988-89 were Miscellaneous manufacturing (88.4 per cent) and Clothing and footwear (66.5 per cent).

Food, beverages and tobacco retained its place as the largest export earner for Victoria, despite the fact that it increased by only 1.7 per cent over the two year period. Two of the twelve ASIC sub-divisions registered a decrease in exports between 1986-87 and 1988-89. Wood, wood products, and furniture fell by 28.7 per cent, whilst Transport equipment decreased by 17.2 per cent.

**EXPORTS OF TABLE 7.18 FOREIGN TRADE OF MANUFACTURED GOODS: EXPORTS  
OF MANUFACTURED GOODS BY INDUSTRY SUB-DIVISION, VICTORIA**

ASIC Sub-division	1986-87		1987-88		1988-89	
	\$m	%	\$m	%	\$m	%
Food, beverages and tobacco	1,534.1	34.4	1,646.0	29.5	1,560.3	28.5
Textiles	433.1	9.7	581.7	10.4	512.6	9.4
Clothing and footwear	19.7	0.4	27.5	0.5	32.8	0.6
Wood, wood products, and furniture	20.2	0.5	18.1	0.3	14.4	0.3
Paper, paper products, printing and publishing	73.5	1.6	76.5	1.4	81.6	1.5
Chemical, petroleum and coal products	447.2	10.0	539.8	9.6	534.9	9.8
Non-metallic mineral products	33.7	0.8	37.6	0.7	34.3	0.6
Basic metal products	745.7	16.7	1,276.7	22.8	1,445.5	26.4
Fabricated metal products	82.7	1.9	104.6	1.9	123.8	2.3
Transport equipment	501.7	11.2	603.8	10.8	415.6	7.6
Other machinery and equipment	496.7	11.1	559.0	9.9	568.9	10.4
Miscellaneous manufacturing	75.2	1.7	125.6	2.2	141.7	2.6
<b>Total Victoria (a)</b>	<b>4,463.5</b>	<b>100.0</b>	<b>5,596.9</b>	<b>100.0</b>	<b>5,466.4</b>	<b>100.0</b>
<b>Total Australia (a)</b>	<b>18,961.8</b>	<b>100.0</b>	<b>22,713.8</b>	<b>100.0</b>	<b>19,458.0</b>	<b>100.0</b>

(a) In some cases, division aggregates slightly exceed sums of sub-divisions due to unclassified confidential items.

## MINING

In 1988-89 the Victorian mining industry contributed 18.8 per cent of the Australian mining component of Gross Domestic Product (GDP) at factor cost. The mining industry represented 2.9 per cent of Victoria's GDP at factor cost in 1988-89.

The term 'mining' as used in GDP at factor cost estimates includes the extraction of minerals occurring naturally as solids, such as coals and ores, liquids such as crude petroleum, and gases such as natural gas.

### Oil and gas production

In 1988-89, the Gippsland Basin produced 63 per cent of Australia's crude oil and 34 per cent of its natural gas.

### Brown coal

The majority of Australia's measured resources of brown coal is located in Victoria's Latrobe Valley, with 52,000 Megatonnes which is considered economically viable. Brown coal is by far Victoria's most valuable solid mineral commodity, with production in 1987-88 valued at \$320.2m.

### Gold

Victoria's production of gold bullion increased rapidly in recent years. Only 41 kilograms were produced during 1979-80, rising to 150 kilograms in 1983-84. Victorian gold production increased dramatically from this low base, largely as a result of the Wonga open cut mine at Stawell coming on stream. By 1987-88, Victorian production was 1,634 kilograms and was valued at \$32.9m.

TABLE 7.19 MINING ACTIVITY (a), VICTORIA

Year	Establishments at 30 June	Employment (b)	Wages and salaries (c)	Turnover	Stocks		Purchases, transfers in and selected expenses	Value added (d)
					Opening	Closing		
	number	number	\$m	\$m	\$m	\$m	\$m	\$m
1983-84	230	5,663	152.5	2,533.9	61.6	59.7	281.3	2,250.7
1984-85	221	5,737	160.3	3,104.9	65.9	62.6	281.9	2,819.7
1985-86	207	5,567	171.7	3,384.0	61.1	70.3	323.5	3,069.7
1986-87	208	5,783	182.1	2,525.6	65.9	72.3	293.0	2,239.0
1987-88	208	5,901	204.9	2,923.5	75.2	85.2	327.9	2,605.5
1988-89 (e)	12	1,507	73.3	1,616.1	46.1	49.5	140.1	1,479.3

(a) ASIC Subdivisions not available for separate publication.

(b)(c)(d) See footnotes to Table 7.2.

(e) The 1988-89 (truncated) census differs from previous mining censuses in that the construction materials and other non-metallic minerals industries have been excluded.

TABLE 7.20 ROYALTIES FROM OIL AND GAS PRODUCTION, VICTORIA  
(Sm)

Year	Amount received	Amount paid to Commonwealth	Amount retained by Victoria
1983-84	257.9	84.2	173.7
1984-85	293.9	96.5	197.5
1985-86	302.2	99.4	202.8
1986-87	218.7	71.4	147.2
1987-88	213.9	69.8	144.1
1988-89	139.5	46.0	93.5

Source: Department of Manufacturing and Industry Development, Victoria: *Annual Report*.

TABLE 7.21 CRUDE OIL PRODUCTION (a), VICTORIA

Year	Barrels ('000)		Megalitres	
	During year	Average barrels per day	During year	Average megalitres per day
1984	159,395	436	25,342	69.4
1985	177,776	487	28,264	77.4
1986	145,350	398	23,109	63.3
1987	151,571	415	24,098	66.0
1988	133,194	364	21,176	57.9
1989	113,383	311	18,027	49.4

(a) After processing.

Source: Australian Institute of Petroleum: *Oil and Australia*

TABLE 7.22 ESTIMATED HYDROCARBON RESERVES, VICTORIA  
(million cu. metres)

Item	1987	1988	1989
Crude oil	161	163	148
Natural gas	159	161	167
Condensate	22	21	23
LPG	46	46	47

Source: Department of Manufacturing and Industry Development, Victoria: *Annual Report*.

TABLE 7.23 MINERAL PRODUCTION, VICTORIA

Mineral	Unit	1984-85	1985-86	1986-87	1987-88	1988-89
Brown coal	kilotonnes	38,501	36,319	41,799	r44,288	48,663
Metallic minerals -						
Bauxite	tonnes	4,409	4,584	7,882	7,345	6,211
Gold bullion (a)	kilograms	902	1,272	1,179	r1,716	2,511
Non-metallic minerals -						
Diatomite (b)	tonnes	776	-	-	r8,000	2,137
Gypsum	kilotonnes	247	139	187	r203	241
Kaolin (b)	kilotonnes	89	36	41	r101	53

(a) Gold bullion is not yet refined and may contain small amounts of other metals such as silver.

(b) Refined and unrefined

Source: Department of Manufacturing and Industry Development, Victoria: *Annual Report*.

TABLE 7.24 MINERAL PRODUCTION AND VALUE, VICTORIA, 1988-89

Mineral	Unit	Production	Value ('000)
Bauxite	tonnes	6,211	102
Brown coal	kilotonnes	48,663	357,774
Gold	kilograms	2,511	33,435
Gypsum	kilotonnes	241	2,276
Kaolin	kilotonnes	117	13,402
<b>Total</b>			<b>406,989</b>

Source: Department of Industry, Victoria: *Annual Report*.

TABLE 7.25 STONE PRODUCTION, VICTORIA, 1988-89

Item	Establishments operating	Total Victorian production	
	Number	Production 000 tonnes	Value S'000
Clays -			
Brick clay and shale	10	1,751	5,927
Fireclay	2	5	47
White and other clays	12	144	1,282
<i>Total clays</i>	<i>24</i>	<i>1,991</i>	<i>7,256</i>
Crushed and broken stone -			
Basalt	51	13,794	144,131
Dacite, rhyolite, and rhyodacite	3	1,967	29,073
Granite	16	2,602	27,169
Hornfels	5	1,182	16,916
Limestone	10	1,007	4,756
Sandstone, quartzite	24	1,884	10,728
Shale and schist, other	4	327	999
<i>Total crushed and     broken stone</i>	<i>113</i>	<i>22,763</i>	<i>233,772</i>

TABLE 7.25 STONE PRODUCTION, VICTORIA, 1988-89 - continued

Item	Establishments operating	Total Victorian production	
	Number	Production 000 tonnes	Value \$'000
Dimension stone -			
Basalt, granite, sandstone and other	8	17	608
Earth and soil	20	455	2,564
Gravel	58	3,753	13,941
Limestone -			
For agriculture	15	139	3,690
For cement	3	2,438	14,079
For other purposes	4	70	5,414
<i>Total limestone</i>	22	2,684	23,183
Salamander and filling	23	720	4,605
Sand	126	7,339	60,855
Scoria	20	1,024	8,445
Tuff	6	206	769
<b>Grand total</b>	<b>420</b>	<b>40,952</b>	<b>355,998</b>

Source: Department of Manufacturing and Industry Development, Victoria: *Annual Report*.

## ENERGY

### Overview

In 1988-89, Victoria contributed 30.8 per cent of the Electricity, gas, and water component of Australia's Gross Domestic Product (GDP) at factor cost. The Electricity, gas, and water industries represented 4.0 per cent of Victoria's GDP at factor cost in 1988-89.

The Electricity, gas, and water component of GDP includes the transmission and distribution of gas through reticulation systems. It does not include the extraction of crude petroleum or natural gas.

### Electricity generated

The State Electricity Commission of Victoria (SEC) is Australia's largest electricity supply authority and individual coal producer. It is a semi-government authority with the principal responsibility of generating or purchasing electricity for supply throughout Victoria.

At 30 June 1989, it distributed electricity directly to 1,555,000 customers and indirectly to a further 286,500 through 11 metropolitan councils which buy power in bulk for retail distribution under franchises granted by Victorian Government before the SEC's establishment.

Victorian production of electricity in 1989-90 was 37,804 GWh, a rise of 4.6 per cent over the 1988-89 figure. Victoria's electricity system is based upon the State's extensive brown coal resource in the LaTrobe Valley in Central Gippsland, which is one of the largest single brown coal deposits in the world, amounting to 200,000 megatonnes, of which 52,000 are presently economically recoverable.

All the major brown coal fired generating plants in the system are located in the LaTrobe Valley. These plants generate three-quarters of the State's electricity requirement.



Other thermal stations include a gas turbine station in the LaTrobe Valley and a gas fired station in Melbourne. There are hydro-electric power stations in north-eastern Victoria, and the State is also entitled to about 30 per cent of the output of the Snowy Mountains hydro-electric scheme and half of the output of the Hume hydro-electric station near Albury.

Main transmission is by 500, 330, 220 and 66 kv lines which supply the principal sub-transmission centres and interconnection between generating sources.

### Gas reticulation

The Gas and Fuel Corporation of Victoria is the largest gas undertaking in Australia, the sole reticulator of gas in Victoria, and a major marketer of liquefied petroleum gas (LPG).

Commercial reserves of natural gas were discovered in the off-shore Gippsland Basin in 1965 by Esso-BHP from which the Corporation purchases, under agreement, the State's natural gas requirements.

Supply is drawn from the Marlin, Barracouta, and Snapper fields in Bass Strait, and transported by pipeline to an onshore treatment plant at Longford, near Sale.

The Corporation reticulates gas, 99 per cent of which is natural gas, through a 20,000 kilometre network of underground transmission pipelines and mains to more than one million industrial, commercial, and domestic consumers.

### Petroleum marketed

Motor spirit (super, standard and unleaded) marketed in Victoria during 1989-90 amounted to 4,817 megalitres. This represented a 0.9 per cent rise over the 1988-89 figure.

**TABLE 7.26 POWER STATIONS: LOCATIONS, RATING, AND PRODUCTION, VICTORIA**

Station	Maximum output achieved (MW)		Electricity generated (GWh)	
	1988-89	1989-90	1988-89	1989-90
Brown coal thermal stations -				
Hazelwood	1,320	1,300	8,397	6,995
Yallourn	103	-	27	-
Yallourn W	1,485	1,476	8,570	8,463
Morwell	140	112	835	531
Loy Yang A	2,066	2,093	13,616	14,920
<b>Total</b>	<b>..</b>	<b>..</b>	<b>31,445</b>	<b>30,909</b>
Other thermal stations -				
Newport D	507	506	1,606	3,122
Jecralang	492	473	559	928
<b>Total</b>	<b>..</b>	<b>..</b>	<b>2,165</b>	<b>4,050</b>
Hydro stations -				
Kiewa	192	250	413	332
Eildon-Rubicon (incl. Cairn-Curran)	136	149	203	354
Dartmouth	150	176	72	117
<b>Total</b>	<b>..</b>	<b>..</b>	<b>688</b>	<b>803</b>
Stations operated by other bodies	1,261	1,473	1,841	2,042
<b>Total input to system</b>	<b>..</b>	<b>..</b>	<b>36,139</b>	<b>37,804</b>

Source: State Electricity Commission of Victoria: *Annual Report*.

TABLE 7.27 REFINING CAPACITY, VICTORIA, AT 1 JULY 1990

<i>Refinery</i>	<i>Location in Victoria and year refinery came on stream</i>	<i>Primary processing capacity (a)</i>
Shell Refining (Australia) Pty Ltd	Corio near Geelong 1954	110,000 to 132,000 BSD (5,000,000 tonnes/year)
Shell Lubricating oil plant	Corio near Geelong 1954	3,000 BSD (145,000 tonnes/year)
Petroleum Refineries (Australia) Pty Ltd	Altona near Melbourne 1949	108,000 BSD (5,000,000 tonnes/year)

(a) BSD: barrels per stream day.

Source: Australian Institute of Petroleum Ltd: *Oil and Australia*.

TABLE 7.28 PRINCIPAL PETROLEUM PRODUCTS MARKETED, VICTORIA  
(megalitres)

<i>Item</i>	<i>1987-88</i>	<i>1988-89</i>	<i>1989-90</i>
Aviation gasoline	18.80	19.40	21
Motor spirit -			
Super	3,994.29	3,779.38	3,517
Unleaded	668.22	973.85	1,301
Total	4,662.51	4,773.23	4,817
Aviation turbine fuel	556.66	549.04	541
Heating oil	39.06	35.35	32
Automotive distillate	1,533.84	1,704.86	1,762
Industrial diesel fuel	104.44	106.25	81
Fuel oil	358.92	366.68	373
<b>Grand total (a)</b>	<b>7,274.23</b>	<b>7,568.20</b>	<b>7,606</b>

(a) Other petroleum fuels including refinery oil are no longer included as principal petroleum products marketed.

Source: Australian Bureau of Agricultural and Resource Economics: *Quarterly Mineral Statistics*

## REFERENCES

### Data sources

The latest year for which ABS estimates are available for gross product at factor cost is 1988-89. However, State details are restricted because G.D.P. by industry excludes the general government gross operating surplus component.

Major sources of manufacturing data are the Censuses of Manufacturing Establishments which have been conducted in Victoria since 1901, and the monthly surveys of selected manufacturing production. No Manufacturing Census was conducted for the year 1985-86.

Manufacturing statistics collected since 1968-69 are classified by industry according to Division C of the Australian Standard Industrial Classification (ASIC). Division C 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.

**ABS publications**

*Census of Manufacturing Establishments: Summary of Operations by Industry Subdivision, Australia, Preliminary* (8201.0)

*Manufacturing Establishments: Summary of Operations by Industry Class, Australia* (8202.0)

*Manufacturing Establishments: Selected Items of Data by Industry and Employment Size, Victoria* (8202.2)

*Manufacturing Establishments: Details of Operations by Industry Class, Australia* (8203.0)

*Manufacturing Establishments: Small Area Statistics, Victoria* (8203.2)

*Manufacturing, Victoria 1968-69 to 1987-88, Economic Statistics Report* (8206.2)

*Manufacturing Establishments: Details of Operations, Victoria* (8291.2)

*Production Bulletins* (8357.0 - 8368.0)

*Manufacturing, Victoria* (8207.2)

**Non-ABS publications**

*Department of the Treasury, Victoria, estimates of State Accounts compiled by the Policy and Statistics Division.*