



CONSTANT PRICE ESTIMATES OF MANUFACTURING PRODUCTION, AUSTRALIA 1981-82

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other inquiries including copies of publications—contact Information Services on Canberra (062) 52 6627 or in any of our State offices.
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EXPLANATORY NOTES

Introduction

This publication presents annual constant price estimates of gross product at factor cost for the years 1971-72 to 1981-82. They relate to the Manufacturing sector (Division C of the Australian Standard Industrial Classification (ASIC)), and are presented for: each of the 12 subdivisions within the manufacturing division; most ASIC groups; and a large proportion of ASIC classes. As the ASIC was revised in 1978 both editions of the ASIC are used in this publication. For 1977-78, estimates are published according to both the 1969 and the 1978 editions of ASIC where possible; for the years 1971-72 to 1976-77 the estimates are classified according to the 1969 edition of ASIC only; and for the years 1978-79 to 1981-82 they are on the basis of the 1978 edition of ASIC only. The estimates are compiled from two principal data sources: the annual Census of Manufacturing Establishments; and price data collected by the ABS for the monthly price indexes of articles produced by manufacturing industry. The meaning and measurement of production at constant prices and the limitations and qualifications to which the estimates are subject are discussed in detail in *Australian National Accounts: Concepts, Sources and Methods* (5216.0).

2. The estimates of gross product at factor cost in this publication are also used to calculate estimates of ASIC subdivision gross product 'at market prices' published in *Australian National Accounts, Gross Product by Industry* (5211.0). In concept, gross product at market prices can be derived by adding indirect taxes less subsidies to gross product at factor cost. However, as explained in paragraph 5, other adjustments also need to be made to the estimates in this publication to obtain gross product at market prices.

Methods of compilation of the estimates

3. The scope of the estimates in this publication is the manufacturing division of ASIC. Accordingly, they are 'industry-based' rather than 'activity-based'. This means that the estimates for the total manufacturing division reflect the manufacturing production of all establishments which are predominantly engaged in activities classified as primary to the manufacturing division of ASIC and also reflect some non-manufacturing activity, such as wholesaling, carried out by manufacturing establishments. Correspondingly, the estimates do not include manufacturing activity carried out by establishments primarily engaged in non-manufacturing activity.

4. The gross output method is used to derive these estimates. This approach involves extrapolating a base year (1979-80) estimate of gross product for each ASIC class by a series of ASIC class output at constant prices. The estimation of the base year gross product, the extrapolation process used to obtain estimates for other years, and the calculation of constant price output are described below.

5. The base year gross product for each ASIC class is estimated using census data for *value added* and *adjusted value added*. These measures are defined in *Manufacturing Establishments: Details of Operations by Industry Class, Australia* (8203.0) and *Enterprise Statistics, Details by Industry Class, Australia* (8103.0). In brief, *value added* is calculated as turnover plus the change in the

value of stocks less purchases, transfers in, and selected expenses (which include rent, leasing and hiring expenses). *Adjusted value added* is derived as value added less land tax, rates and payroll tax, insurance premiums (other than for workers' compensation) and other business expenses. To conform to the national accounting concept of gross product, further adjustments are necessary using information from other sources e.g. the addition of workers compensation paid less premiums received. Due to data limitations, these further adjustments can be made only at the ASIC subdivision level and therefore are not taken into account in this publication. The base year gross product values used here are derived by taking establishment-based estimates of adjusted value added and applying a stock valuation adjustment. (See Chapter 10 of *Australian National Accounts: Concepts, Sources and Methods* (5216.0) for an explanation of this adjustment.)

6. For the years 1977-78 and later, the estimate of gross product at average 1979-80 prices for each ASIC class is derived by extrapolating the 1979-80 value of gross product at factor cost by a series of output at average 1979-80 prices.

7. At average 1979-80 prices, output is calculated directly only for the years 1977-78 to 1981-82. For earlier years estimates of gross product at average 1979-80 prices for each 1969 edition ASIC class are obtained by extrapolating back from the 1977-78 ASIC class (1969 edition) estimate using the movements in the previously published series of gross product at average 1974-75 prices (see also paragraph 19 below).

8. The ASIC class estimates of constant price gross product are summed to obtain the estimates of ASIC groups, subdivisions and the total manufacturing division.

9. Size cut-offs have applied to establishments included in the 1975-76 and subsequent Censuses of Manufacturing Establishments. The estimates of gross product at constant prices for earlier years are adjusted so that consistent time series are maintained.

10. In the manufacturing censuses, output is obtained as the sum of a number of components, namely, sales and transfers out of goods, all other operating revenue, capital work done for own use or for rental or lease, and changes in stocks of work-in-progress and finished goods. These components are revalued separately for each ASIC class. The following paragraphs describe the methods used to revalue the components of output.

Sales and transfers out of goods by the establishment of manufacture

11. Details of values and quantities (where available) of individual goods sold and transferred out, classified by ASIC industry of manufacture, are obtained from annual manufacturing censuses. Most of the revaluation of these values is achieved by direct revaluation using the price deflation method. Approximately 700 individual price indexes of articles produced by the manufacturing sector are used for this purpose. Upwards of 80 per cent of the total value of sales and transfers out of goods is revalued by this method while quantity revaluation accounts for less than 10 per cent of the value; the proportion remaining is revalued using implicit price deflators.

12. In each case the basis of the price index used for revaluation is compatible with the basis of recording manufacturers' sales of goods (and output) in the manufacturing censuses. The price series relate to goods of fixed specifications, that is, they exclude, as far as possible, price changes associated with changes in quality. For most commodities the price indexes used are based on manufacturers' selling prices exclusive of excise and sales tax and reflect the effects of subsidies and bounties paid to manufacturers. These prices reflect industry selling practices. For example, if costs of handling and distribution are included in the manufacturer's selling price this is the price used in the index. Where handling and distribution charges are paid separately (i.e. to another entity) by the purchaser the prices used exclude such charges.

13. While direct revaluation is used to revalue in excess of 90 per cent of the total value of goods sold or transferred out by manufacturing establishments this proportion is considerably lower in a number of individual ASIC classes. The balance of the value of each ASIC class is revalued using the implicit price deflator of the directly revalued commodities of the ASIC class.

Sales and transfers out of goods manufactured by other establishments

14. No commodity data are available from the annual censuses for this component of output which contributes less than 4 per cent to total sales and transfers out of goods. This component for each ASIC class is revalued by the implicit price deflator for the component 'sales and transfers out of goods by the establishment of manufacture'.

All other operating revenue

15. This component comprises mainly revenue from commission charges for manufacturing work done on customers' materials, and repair, installation and service revenue. Where it contributes less than 5 per cent of the total value of output of the class concerned, revaluation by the implicit price deflator of sales and transfers out of goods is used. For those classes where the contribution is greater than 5 per cent the method of revaluation, generally speaking, is either by price indexes appropriate to the major source of the revenue or by quantity revaluation of quantities produced on commission.

Capital work done for own use or for rental or lease

16. This component, which comprises the wage and material costs of capital work carried out, is revalued by a fixed weighted index of wage rates and prices of materials used.

Increase in stocks of finished goods and work-in-progress

17. Opening and closing stocks for each ASIC class are revalued by manufacturers' selling price indexes relating to the major commodities held in stocks; the estimate of increase in stocks at constant prices is obtained as the difference between revalued opening stocks and revalued closing stocks.

Preservation of the estimates

18. Estimates are shown in the table for the total manufacturing division of ASIC and for the component subdivisions, groups and classes except where:

- (a) separate estimates cannot be published for reasons of confidentiality, or

- (b) an unacceptably low proportion of output is directly revalued.

19. As previously mentioned, the introduction of the 1978 edition of ASIC has resulted in a discontinuity in the series in 1977-78. Apart from 1977-78, it is not possible to directly convert series derived using the 1969 edition of ASIC to a basis consistent with the 1978 edition of ASIC or vice versa. To provide a link between the estimates based on the different editions of ASIC, estimates for 1977-78 have been prepared on the basis of both editions. Industry class estimates of constant price gross product from 1971-72 to 1977-78 are on the basis of the 1969 edition of ASIC and for 1977-78 to 1981-82 are on the basis of the 1978 edition of ASIC. In this publication the estimates are presented with the ASIC classes and groups from each edition of ASIC combined in such a way as to reflect the broad alignment between groups and classes as set out in Table 2 of the ABS publication *Australian Standard Industrial Classification: Key Between the 1978 and 1969 Editions of ASIC* (1209.0).

Related publications

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

Australian National Accounts: Gross Product by Industry, 1981-82 (5211.0).

Australian National Accounts: Concepts, Sources and Methods (5216.0)

Manufacturing Establishments: Details of Operations by Industry Class, Australia, 1981-82 (8203.0).

Manufacturing Commodities: Principal Articles Produced, Australia, 1980-81 and 1981-82 (8303.0).

Price Indexes of Articles Produced by Manufacturing Industry, Australia (6412.0)—issued monthly.

Australian Standard Industrial Classification: Key Between the 1978 and 1969 Editions of ASIC (1209.0).

21. Current publications produced by the ABS are listed in the *Catalogue of Publications, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The *Catalogue* and *Publications Advice* are available from any ABS office.

Symbols and other usages

- n.p. not available for separate publication, but included in totals where applicable.
 .. not applicable
 n.e.c. not elsewhere classified

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

R. J. CAMERON
 Australian Statistician

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES
(5 Million)

ASIC Codes(a)

1978 edition	1969 edition	Industry class	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
FOOD, BEVERAGES AND TOBACCO													
		Meat products—											
2115		Meat (except smallgoods or poultry)							766.6	755.4	670.6	657.1	679.4
	2111	Meat and abattoir by-products	562.4	646.8	557.0	602.4	712.7	714.5	n.p.	..	..	..	..
	2114	Casings of animal origin	14.2	13.7	10.8	10.8	11.2	11.1	n.p.	..	..	..	..
2116		Poultry							78.3	83.4	94.3	98.7	94.4
	2112	Fresh and frozen poultry	55.8	57.5	64.0	61.0	64.3	70.2	78.2	..	..	..	..
2117		Bacon, ham and smallgoods n.e.c.							119.6	127.4	125.4	132.4	129.8
	2113	Bacon, ham and smallgoods	111.3	116.8	115.5	114.1	113.6	117.8	119.5	..	..	..	..
211		Total meat products							964.5	966.2	890.3	888.2	903.6
	211	Total meat products	743.7	834.8	747.3	788.3	901.8	913.6	n.p.	..	..	..	..
		Milk products—											
2121		Liquid milk and cream							141.2	151.6	153.8	149.3	148.6
	2121	Liquid milk and cream	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	..	..	..	..
2122		Butter							53.6	53.6	45.8	44.8	43.7
	2122	Butter	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	..	..	..	..
2123		Cheese							73.5	83.0	96.0	92.5	100.6
	2123	Cheese	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	..	..	..	..
2124		Ice cream and frozen confections							61.0	57.9	57.3	57.2	51.5
	2124	Ice cream and other frozen confections	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	..	..	..	..
2125		Milk products n.e.c.							40.8	36.3	39.9	44.2	36.3
	2125	Milk products n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	..	..	..	..
212		Total milk products							370.1	382.4	392.8	388.0	380.7
	212	Total milk products	338.7	357.6	371.6	365.6	359.7	363.0	368.9	..	..	..	..
		Fruit and vegetable products—											
2131		Fruit products							68.9	75.1	86.8	83.8	86.3
	2131	Fruit products	73.9	81.2	80.1	74.9	68.2	65.2	67.9	..	..	..	..
2132		Vegetable products							111.9	117.7	118.1	114.8	121.3
	2132	Vegetable products	102.6	106.4	122.2	113.8	113.7	117.3	113.8	..	..	..	..
213		Total fruit and vegetable products							180.8	192.8	204.9	198.6	207.6
	213	Total fruit and vegetable products	176.5	187.6	202.3	188.7	181.9	182.5	181.7	..	..	..	..
214		Margarine and oils and fats n.e.c.							69.1	72.7	74.2	75.1	73.9
	214	Margarine and oils and fats n.e.c.	41.8	50.6	58.2	58.5	61.8	62.9	69.1	..	..	..	..
		Flour mill and cereal food products—											
2151		Flour mill products							56.1	51.1	51.8	53.4	52.1
	2151	Flour mill products	65.0	60.5	59.7	59.2	58.6	56.6	55.8	..	..	..	..
2152		Starch, gluten and starch sugars							15.8	16.3	16.5	15.8	15.0
	2152	Starch, gluten and starch sugars	13.6	14.5	15.9	14.9	14.0	16.7	n.p.	..	..	..	..
2153		Cereal foods and baking mixes							81.5	82.5	97.0	95.1	104.8
	2153	Cereal foods and baking mixes	61.5	67.1	74.5	77.2	77.5	76.9	n.p.	..	..	..	..
215		Total flour mill and cereal food products							153.4	149.9	165.3	164.3	171.9
	215	Total flour mill and cereal food products	140.1	142.1	150.1	151.3	150.1	150.2	153.7	..	..	..	..

For footnotes see end of table.

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES — continued
(\$ Million)

ASIC Code(s)		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
1978 edition	1969 edition Industry class											
2161	Bread, cakes and biscuits—											
2161	Bread	226.7	224.8	221.6	197.8	195.2	202.7	202.6	207.5	211.5	209.9	217.6
2162	Cakes and pastries	86.6	87.2	79.0	83.2	88.8	96.5	98.8	99.6	99.5	100.8	102.2
2163	Biscuits	96.2	90.8	96.8	94.2	92.0	94.5	97.2	96.9	96.0	96.5	97.9
216	Total bread, cakes and biscuits	409.5	402.8	397.4	375.2	376.0	393.7	398.6	404.0	407.0	407.2	417.7
2171	Other food products—											
2176	Raw sugar	..	..	..	..	..	..	422.5	417.1	446.0	478.4	486.0
2171	Food products n.e.c.	..	..	..	..	..	..	..	..	..	..	..
2172	Raw sugar	..	..	..	..	..	..	..	..	..	..	..
2184	Refined sugar	..	..	..	..	..	..	..	..	..	..	..
2184	Food products n.e.c.	..	..	..	..	..	..	..	..	..	..	..
2173	Confectionery and cocoa products	111.0	114.2	123.7	124.2	119.5	117.9	114.4	122.4	111.6	121.4	119.2
2174(b)	Processed seafoods	8.1	7.7	8.3	8.6	7.3	6.9	27.7	38.2	41.0	40.1	45.9
2182	Canned fish and other seafoods	57.4	60.3	69.8	70.3	73.6	77.7	80.8	84.0	93.9	94.1	95.8
2175	Prepared animal and bird foods	57.4	60.3	69.8	70.3	73.6	77.7	80.8	84.0	93.9	94.1	95.8
2183	Prepared animal and bird foods	57.4	60.3	69.8	70.3	73.6	77.7	80.8	84.0	93.9	94.1	95.8
217	Total other food products	585.0	603.9	580.1	594.9	591.8	634.6	645.4	661.7	692.5	734.0	746.9
217	Total sugar	..	..	..	..	..	..	..	..	..	..	..
218	Total other food products	..	..	..	..	..	..	..	..	..	..	..
2185	Beverages and malt—											
2191	Soft drinks, cordials and syrups	107.3	120.0	133.0	131.0	140.1	150.8	156.8	152.8	148.5	161.6	155.2
2186	Beer	195.8	211.0	229.4	240.3	239.6	243.1	259.2	255.1	264.3	266.9	263.3
2192	Beer	195.8	211.0	229.4	240.3	239.6	243.1	259.2	255.1	264.3	266.9	263.3
2187	Malt	19.1	16.8	18.4	21.0	18.5	18.6	19.6	20.6	24.6	25.8	27.0
2193	Malt	19.1	16.8	18.4	21.0	18.5	18.6	19.6	20.6	24.6	25.8	27.0
2188	Wine and brandy	47.7	55.3	64.0	77.8	74.3	80.8	78.9	89.0	95.8	98.8	104.8
2194	Wine and brandy	47.7	55.3	64.0	77.8	74.3	80.8	78.8	..	..	..	..
2189	Alcoholic beverages n.e.c.	3.7	4.7	5.8	6.1	5.9	6.5	4.9	5.5	5.6	4.2	5.9
2195	Alcoholic beverages n.e.c.	3.7	4.7	5.8	6.1	5.9	6.5	n.p.	..	..	..	..
218	Total beverages and malt	373.6	407.8	450.6	476.2	478.4	499.8	519.4	523.0	538.8	557.3	556.2
219	Total beverages and malt	373.6	407.8	450.6	476.2	478.4	499.8	521.7	..	..	..	..
219	Tobacco products	117.4	122.8	107.0	111.4	101.0	95.3	98.9	100.4	96.8	92.8	83.0
221	Tobacco products	117.4	122.8	107.0	111.4	101.0	95.3	98.9	..	..	..	..
21	Total food, beverages and tobacco	2,926.3	3,110.0	3,064.6	3,110.1	3,202.5	3,295.6	3,400.2	3,453.1	3,462.6	3,505.5	3,541.5
21-22	Total food, beverages and tobacco	2,926.3	3,110.0	3,064.6	3,110.1	3,202.5	3,295.6	3,390.6	..	..	..	..

For footnotes see end of table

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES — continued
(\$ Million)

ASIC Code(a)		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
1978	1969	edition edition Industry class										
TEXTILES												
2341		Textile fibres, yarns and woven fabrics—										
	2311	3.9	3.7	2.7	3.5	3.1	2.4	4.5	4.6	7.0	9.0	11.6
		..	..	..	..	..	..	4.5	..	..	..	..
2342		Wool scouring and top making										
	2312	13.6	10.7	10.8	11.7	14.1	15.6	26.9	30.8	32.1	33.2	32.4
	2313	16.8	18.3	15.0	9.7	14.2	14.5	18.8	..	..	..	..
2343		Man-made fibres and yarns										
	2314	102.5	118.4	129.8	87.5	100.9	85.5	71.6	76.3	68.5	67.4	61.4
		102.5	118.4	129.8	87.5	100.9	85.5	71.6	..	..	..	..
2344		Man-made fibre broadwoven fabrics										
	2315	39.2	47.7	59.2	44.8	51.0	51.3	54.6	58.3	57.9	63.4	57.4
		39.2	47.7	59.2	44.8	51.0	51.3	n.p.	..	..	..	..
2345		Cotton yarns and broadwoven fabrics										
	2316	105.8	105.4	117.8	96.1	99.5	93.4	91.3	102.3	90.7	94.3	100.6
		105.8	105.4	117.8	96.1	99.5	93.4	91.3	..	..	..	..
2346		Worsted yarns and broadwoven fabrics										
	2317	55.4	48.1	45.6	30.8	34.9	29.1	28.0	33.9	29.7	28.4	33.0
		55.4	48.1	45.6	30.8	34.9	29.1	28.0	..	..	..	..
2347		Woollen yarns and broadwoven fabrics										
	2318	30.0	29.2	31.3	22.3	23.4	26.3	27.3	27.9	30.6	29.5	30.6
		30.0	29.2	31.3	22.3	23.4	26.3	n.p.	..	..	..	..
2348		Narrow woven and elastic textiles										
	2319	17.3	16.4	19.5	14.6	16.3	16.8	16.4	17.4	19.5	20.7	21.7
		17.3	16.4	19.5	14.6	16.3	16.8	16.4	..	..	..	..
2349		Textile finishing										
	2321	39.6	46.3	45.5	38.2	50.0	46.6	44.6	45.3	53.4	49.6	42.5
		39.6	46.3	45.5	38.2	50.0	46.6	44.6	..	..	..	..
234		Total textile fibres, yarns and woven fabrics										
	231-232(e)	436.1	459.8	498.6	377.8	425.3	399.9	365.2	396.8	390.1	395.5	391.2
		436.1	459.8	498.6	377.8	425.3	399.9	388.2	..	..	..	..
2351		Other textile products—										
	2322(d)	12.0	15.6	21.4	18.4	17.9	18.4	20.4	23.3	28.3	26.1	28.4
		12.0	15.6	21.4	18.4	17.9	18.4	20.4	..	..	..	..
2352		Textile floor coverings										
	2331	36.5	45.3	57.9	47.8	64.2	56.9	51.7	54.0	57.2	59.8	65.7
		36.5	45.3	57.9	47.8	64.2	56.9	51.7	..	..	..	..
2353		Felt and felt products										
	2332	14.2	16.6	18.9	18.5	13.3	12.3	10.7	11.1	13.8	13.0	13.0
		14.2	16.6	18.9	18.5	13.3	12.3	10.7	..	..	..	..
2354		Canvas and associated products n.e.c.										
	2333	27.6	30.2	34.1	34.0	33.0	31.4	28.9	26.9	27.2	26.5	27.8
		27.6	30.2	34.1	34.0	33.0	31.4	29.1	..	..	..	..
2355		Rope, cordage and twine										
	2334	17.5	15.8	17.4	13.1	11.4	11.8	10.6	10.1	7.0	7.2	8.7
		17.5	15.8	17.4	13.1	11.4	11.8	10.6	..	..	..	..
2356		Textile products n.e.c.										
	2335	44.7	38.8	43.4	41.7	43.7	48.8	50.6	55.9	60.7	56.2	54.8
		44.7	38.8	43.4	41.7	43.7	48.8	50.6	..	..	..	..
235		Total other textile products										
	233(e)	140.5	146.7	171.7	155.1	165.6	161.2	172.9	181.3	194.2	188.8	198.4
		140.5	146.7	171.7	155.1	165.6	161.2	152.7	..	..	..	..
23		Total textiles										
	23	576.6	606.5	670.3	532.9	590.9	561.1	538.1	578.1	584.3	584.3	589.6
		576.6	606.5	670.3	532.9	590.9	561.1	540.9	..	..	..	..

For footnotes see end of table.

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES *continued*
(\$ Million)

ASIC Code(a)		1978	1979	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
edition editio., industry class														
CLOTHING AND FOOTWEAR														
2441	Knitting mills													
	Hosiery									38.8	40.5	46.5	48.3	51.4
2442	Hosiery			47.1	46.4	49.8	41.6	49.6	41.2	38.8	..	..	..	..
2442	Cardigans and pullovers									74.7	69.1	60.7	68.7	63.3
	Cardigans and pullovers			61.6	67.2	66.9	58.0	66.8	68.1	74.8	..	..	..	..
2443	Knitted goods n.e.c.									68.7	68.5	71.4	77.6	78.2
	Knitted goods n.e.c.			67.4	70.9	72.3	61.1	69.8	73.2	68.6	..	..	..	..
244	Total knitting mills									182.2	178.1	178.6	194.6	192.9
241	Total knitting mills			176.1	184.5	189.0	160.7	186.2	182.5	182.2	..	..	..	..
2451	Clothing													
	Mens trousers and shorts; work clothing			..	..	..	..	..	..	102.7	107.8	121.1	119.9	115.2
2423	Mens and boys trousers and shorts; work clothing			95.0	104.2	126.7	115.2	114.9	110.9	100.6	..	..	..	..
2452	Mens suits and coats; waterproof clothing									52.7	57.8	58.1	56.6	60.3
	Mens and boys suits and coats; waterproof clothing			74.1	65.6	68.8	60.1	60.9	59.4	52.7	..	..	..	..
2453	Womens outerwear n.e.c.									171.3	186.1	194.9	188.7	199.2
	Womens and girls blouses and frocks			113.2	111.3	115.4	96.9	98.5	99.7	105.0	..	..	..	..
2422	Womens and girls outerwear n.e.c.			60.0	66.5	64.3	63.0	70.3	64.4	66.8	..	..	..	..
2454	Foundation garments									32.2	34.8	35.5	34.3	27.6
	Foundation garments			35.9	35.9	40.5	33.2	35.2	31.9	32.8	..	..	..	..
2455	Underwear and infants clothing n.e.c.									122.3	122.6	140.4	143.8	150.4
	Underwear, nightwear, shirts and infants clothing n.e.c.			144.7	159.6	173.6	143.8	140.8	129.8	n.p.	..	..	..	..
2456	Headwear and clothing n.e.c.									42.3	49.7	46.1	54.0	52.4
	Headwear			59.6	58.4	63.4	56.3	49.4	40.0	40.5	..	..	..	..
2428	Clothing n.e.c.									..	..	..	..	..
245	Total clothing									523.5	558.8	596.1	597.3	605.1
242	Total clothing				582.5	601.5	652.7	568.5	570.0	536.1	..	..	..	..
2460	Footwear									150.1	164.8	158.6	163.7	160.2
	Footwear									..	..	..	..	..
2431	Rubber footwear									150.9	..	..	..	..
	Footwear n.e.c.			213.7	186.7	191.9	155.6	151.5	139.6	150.9	..	..	..	..
246	Total footwear									150.1	164.9	158.6	163.7	160.2
243	Total footwear			213.7	186.7	191.9	155.6	151.5	139.6	150.9	..	..	..	..
24	Total clothing and footwear									855.8	901.7	933.3	955.6	958.2
24	Total clothing and footwear			972.3	972.7	1,033.6	884.8	907.7	858.2	855.3	..	..	..	..

For footnotes see end of table.

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES *continued*
(\$ Million)

ASIC Code(a)		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
1978	1969											
edition industry class												
		WOOD, WOOD PRODUCTS AND FURNITURE										
		Wood and wood products—										
2531	2511	Log sawmilling	214.5	221.2	230.0	221.5	209.2	207.5	201.0 197.8	198.1	206.3	219.5 209.7
2532	2512	Resawn and dressed timber	122.0	130.0	144.3	136.9	146.5	144.2	133.6 134.4	137.5	133.2	127.9 133.4
2533	2513	Veneers and manufactured boards of wood	76.5	82.4	90.0	74.0	80.5	86.6	84.7 86.4	92.8	91.6	89.8 95.6
2534	2514	Plywood and manufactured boards	76.5	82.4	90.0	74.0	80.5	86.6	84.7 86.4	92.8	91.6	89.8 95.6
2535	2515	Wooden doors	..	..	..	..	..	..	15.2	16.2	17.1	20.0 18.3
2535	2515	Wooden structural fittings and joinery n.e.c.	199.9	218.4	220.5	189.0	207.0	212.9	180.9 199.5	186.4	192.8	201.0 219.4
2536	2516	Wooden containers	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2537	2517	Hardwood woodchips	..	..	..	..	..	..	30.4	31.8	41.3	44.4 33.3
2538	2518	Wood products n.e.c.	50.5	61.1	68.8	68.2	66.4	73.9	41.8 72.3	41.8	40.7	42.5 44.8
253	251	Wood, cork etc. products n.e.c.	50.5	61.1	68.8	68.2	66.4	73.9	41.8 72.3	41.8	40.7	42.5 44.8
253	251	Total wood and wood products	693.6	738.7	780.4	712.8	730.6	746.7	706.7 709.5	728.7	748.3	771.1 784.8
		Furniture and mattresses—										
2541	2521	Furniture (except sheet metal)	251.5	289.6	303.6	272.1	274.7	284.0	281.9 280.8	294.8	309.2	324.8 329.3
2542	2522	Furniture (except sheet metal)	251.5	289.6	303.6	272.1	274.7	284.0	281.9 280.8	294.8	309.2	324.8 329.3
2542	2522	Mattresses (except rubber)	20.1	23.7	27.8	28.3	32.3	34.0	35.9 35.9	37.7	36.8	38.2 40.2
254	252	Mattresses (except rubber or wire)	20.1	23.7	27.8	28.3	32.3	34.0	35.9 35.9	37.7	36.8	38.2 40.2
254	252	Total furniture and mattresses	271.6	313.3	331.4	300.4	307.0	318.0	317.8 316.7	332.5	346.0	363.0 369.5
254	252	Total furniture and mattresses	271.6	313.3	331.4	300.4	307.0	318.0	317.8 316.7	332.5	346.0	363.0 369.5
25	25	Total wood, wood products and furniture	965.2	1,052.0	1,111.8	1,013.2	1,037.6	1,064.7	1,024.5 1,026.2	1,061.2	1,094.3	1,134.1 1,154.3
25	25	Total wood, wood products and furniture	965.2	1,052.0	1,111.8	1,013.2	1,037.6	1,064.7	1,024.5 1,026.2	1,061.2	1,094.3	1,134.1 1,154.3
		PAPER, PAPER PRODUCTS, PRINTING AND PUBLISHING										
		Paper and paper products—										
2631	2611	Pulp, paper and paperboard	206.3	211.7	255.3	226.2	224.6	231.2	223.3 n.p.	237.7	244.2	258.7 254.6
2632	2612	Pulp, paper and paperboard	206.3	211.7	255.3	226.2	224.6	231.2	223.3 n.p.	237.7	244.2	258.7 254.6
2632	2612	Paperbags (including textile bags)	41.5	42.3	40.9	38.9	36.6	35.8	36.2 36.2	37.6	38.4	37.3 30.5
2633	2613	Paperbags (including textile bags)	41.5	42.3	40.9	38.9	36.6	35.8	36.2 36.2	37.6	38.4	37.3 30.5
2633	2613	Solid fibreboard containers	54.4	57.0	61.0	64.9	59.5	65.6	67.7 n.p.	67.8	67.3	68.0 69.4
2634	2614	Solid fibreboard containers	54.4	57.0	61.0	64.9	59.5	65.6	67.7 n.p.	67.8	67.3	68.0 69.4
2634	2614	Corrugated fibreboard containers	68.5	71.7	77.7	74.5	77.4	79.3	84.7 84.4	87.0	95.9	93.2 102.1
2635	2615	Corrugated fibreboard containers	68.5	71.7	77.7	74.5	77.4	79.3	84.7 84.4	87.0	95.9	93.2 102.1
2635	2615	Paper products n.e.c.	104.7	106.6	112.9	105.0	97.2	98.6	99.3 n.p.	104.3	105.3	104.1 104.0
2635	2615	Paper products n.e.c.	104.7	106.6	112.9	105.0	97.2	98.6	99.3 n.p.	104.3	105.3	104.1 104.0
263	261	Total paper and paper products	475.4	489.3	547.8	509.5	495.3	510.5	511.2 513.2	534.4	551.1	561.3 560.6
263	261	Total paper and paper products	475.4	489.3	547.8	509.5	495.3	510.5	511.2 513.2	534.4	551.1	561.3 560.6

For footnotes see end of table

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES—continued
(\$ Million)

ASIC Code(s)		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
1978 1969 edition edition Industry class												
2641	Printing and allied industries—											
2642	Publishing	..	..	..	..	..	..	101.5	111.2	117.5	129.8	129.1
2621	Printing and publishing Publishing (including printing and publishing)	..	..	..	..	..	..	451.3	443.6	495.4	481.9	503.3
2643	Paper stationery	393.7	429.5	474.2	477.3	497.1	534.0	558.4	..	..	..	..
2644	Printing and bookbinding	..	..	..	..	..	..	136.4	148.8	156.1	158.4	156.1
2622	Commercial and job printing (in- cluding stationery and bookbinding)	..	..	..	..	..	..	356.8	385.8	422.5	464.0	490.5
2645	Printing trade services n.e.c.	444.6	474.8	514.5	499.4	456.7	475.3	488.7	..	..	..	..
2623	Printing trade services n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
264	Total printing and allied industries	..	..	..	..	..	..	1,109.7	1,158.4	1,266.4	1,312.3	1,362.1
262	Total printing and publishing	899.6	969.3	1,062.5	1,035.7	1,011.8	1,071.3	1,110.4	..	..	..	..
26	Total paper, paper products, printing and publishing	..	..	..	..	..	..	1,620.9	1,692.8	1,817.5	1,873.6	1,922.7
26	Total paper and paper products, printing and publishing	1,375.0	1,458.6	1,610.3	1,545.2	1,507.1	1,581.8	1,623.6	..	..	..	..
CHEMICAL, PETROLEUM AND COAL PRODUCTS												
Basic chemicals												
2751	Chemical fertilizers	..	..	..	..	..	..	93.6	107.5	116.1	100.7	92.7
2711	Chemical fertilizers	65.0	83.6	90.4	78.9	69.7	91.2	92.0	..	..	..	..
2752	Industrial gases	..	..	..	..	..	..	n.p.	n.p.	n.p.	n.p.	n.p.
2712	Industrial gases	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2753	Synthetic resins and rubber	..	..	..	..	..	..	126.8	140.6	146.9	179.0	188.9
2713	Plastic materials, synthetic resins and synthetic rubber	77.2	90.7	115.5	104.5	104.9	116.0	n.p.	..	..	..	..
2754	Organic industrial chemicals n.e.c.	..	..	..	..	..	..	n.p.	n.p.	n.p.	n.p.	n.p.
2714	Organic industrial chemicals n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
2755	Inorganic industrial chemicals n.e.c.	..	..	..	..	..	..	n.p.	n.p.	n.p.	n.p.	n.p.
2715	Inorganic industrial chemicals n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
275	Total basic chemicals	..	..	..	..	..	..	488.6	531.4	544.4	559.7	594.7
271	Total basic chemicals	385.6	425.3	492.4	445.3	431.9	481.2	484.6	..	..	..	..
Other chemical products—												
2761	Ammunition, explosives and fireworks	..	..	..	..	..	..	n.p.	n.p.	58.3	63.6	69.1
2721	Ammunition, explosives and fireworks	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	..	..	..	..
2762	Paints	..	..	..	..	..	..	108.2	111.8	107.5	108.4	111.4
2722	Paints, varnishes and lacquers	101.2	108.6	118.0	106.4	110.7	107.3	n.p.	..	..	..	..
2763	Pharmaceutical and veterinary products	..	..	..	..	..	..	207.7	230.8	240.5	239.0	249.5
2723	Pharmaceutical and veterinary products	137.5	151.7	169.8	182.9	183.2	194.2	207.1	..	..	..	..
2764	Pesticides	..	..	..	..	..	..	27.7	32.9	37.3	40.5	36.6
2724	Pesticides and agricultural chemicals	12.3	12.5	16.6	18.4	16.3	23.5	28.0	..	..	..	..
2765	Soap and other detergents	..	..	..	..	..	..	119.8	125.8	123.8	113.8	123.4
2725	Soap and other detergents	86.8	89.1	99.2	102.4	112.5	119.7	119.9	..	..	..	..

For footnotes see end of table

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES—continued
(\$ Million)

ASIC Code(a)		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
1978 edition	1969 edition	Industry class										
2766		Other chemical products—continued—										
	2726	Cosmetics and toilet preparations										
								83.4	79.7	82.8	84.1	86.7
								84.4	..	..	..	..
2767		Inks										
	2727							22.8	24.2	24.6	23.4	23.8
								22.8	..	..	..	..
2768		Chemical products n.e.c.										
	2728							n.p.	n.p.	64.5	57.4	54.4
								n.p.	..	..	..	..
276		Total other chemical products										
	272							696.0	729.3	739.3	730.2	754.9
								693.9	..	..	..	..
277		Petroleum refining										
	273							207.2	207.2	222.3	212.2	206.2
								207.2	..	..	..	..
278		Petroleum and coal products n.e.c.										
	274							15.3	15.1	14.8	13.9	11.8
								16.2	..	..	..	..
27		Total chemical, petroleum and coal products										
	27							1,407.1	1,483.0	1,520.8	1,515.9	1,567.6
								1,401.9	..	..	..	..
NON-METALLIC MINERAL PRODUCTS												
285		Glass and glass products										
	281							145.9	146.4	158.3	161.7	179.4
								160.0	..	..	..	..
2861		Clay products and refractories—										
	2862							137.3	148.2	167.3	173.9	170.8
								25.8	25.1	28.7	27.7	26.2
2821		Clay bricks and clay refractories										
	2863							37.1	35.5	36.8	41.8	36.7
	2822							37.1	..	..	..	..
2864		Ceramic tiles and pipes										
	2823							27.3	30.4	34.4	37.2	37.1
								27.3	..	..	..	..
286		China and other ceramic goods n.e.c.										
	282							227.5	239.2	267.2	280.6	270.8
								227.5	..	..	..	..
Cement and concrete products—												
2871		Cement										
	2831							n.p.	126.1	135.1	142.9	155.6
								n.p.	..	..	..	..
2872		Ready mixed concrete										
	2832							88.7	94.5	96.0	98.6	112.2
								88.8	..	..	..	..
2873		Concrete pipes and box culverts										
	2833							n.p.	60.2	64.6	61.3	n.p.
								n.p.	..	..	..	..
2874		Concrete products n.e.c.										
	2834							110.0	109.2	119.1	120.7	n.p.
								113.8	..	..	..	..
287		Total cement and concrete products										
	283(c)							380.1	390.0	414.8	423.5	448.6
								460.3	..	..	..	..

For footnotes see end of table

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES - continued
(5 Million)

ASIC Code(a)													
1978 edition	1969 industry class	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	
Other non-metallic mineral products													
2881	2841 Plaster products and expanded minerals							n.p.	n.p.	n.p.	n.p.	57.1	
	Plaster products	37.6	39.5	43.3	42.6	45.2	49.5	n.p.	..	n.p.	..	..	
2882	2842 Stone products	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
	Stone products	..	..	..	..	..	..	n.p.	..	..	..	..	
2883	Glass wool and mineral wool products	..	..	..	..	..	..	n.p.	n.p.	n.p.	n.p.	22.2	
2884	Non-metallic mineral products n.e.c.	..	..	..	..	..	..	111.6	113.5	109.9	109.8	102.8	
2835(d)	Asbestos cement products	} 108.0	117.1	127.5	122.0	120.7	131.2	n.p.	..	..	..	..	
2843	Non-metallic mineral products n.e.c.												
288	Total other non-metallic mineral products	89.4	96.1	101.3	94.7	95.8	105.2	192.1	197.6	200.3	198.2	192.3	
284(e)	Total other non-metallic mineral products	..	..	..	..	..	..	99.8	..	..	..	..	
28	Total non-metallic mineral products	832.9	907.4	992.9	924.1	926.9	981.6	945.6	973.2	1,050.6	1,064.0	1,091.1	
28	Total non-metallic mineral products	..	..	..	..	..	..	947.6	..	..	..	..	
BASIC METAL PRODUCTS													
Basic iron and steel													
2941	Iron and steel basic products	..	..	..	..	..	..	926.5	1,044.4	1,129.4	1,162.9	1,166.1	
2912	Iron and steel basic products	884.4	995.1	1,057.5	1,026.4	905.3	997.4	965.1	..	..	..	..	
2942	Iron casting	..	..	..	..	..	..	n.p.	n.p.	n.p.	n.p.	n.p.	
2943	Steel casting	..	..	..	..	..	..	n.p.	n.p.	n.p.	n.p.	n.p.	
2944	Iron and steel forging	..	..	..	..	..	..	n.p.	n.p.	n.p.	n.p.	n.p.	
2913	Iron and steel castings and forgings	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	..	..	..	..	
2945	Steel pipes and tubes	..	..	..	..	..	..	99.4	105.8	109.8	112.7	98.9	
2914	Steel pipes and tubes	118.0	124.4	156.2	140.9	96.1	104.8	n.p.	..	..	..	..	
294	Total basic iron and steel	1,188.3	1,295.6	1,405.1	1,361.0	1,189.2	1,274.1	1,186.6	1,313.1	1,416.4	1,454.1	1,443.6	
291(f)	Total basic iron and steel	..	..	..	..	..	..	n.p.	..	..	..	..	
Basic non-ferrous metals													
2951	Copper smelting, refining	..	..	..	..	..	..	47.8	48.6	n.p.	n.p.	52.7	
	Smelting and refining of copper	33.4	36.2	34.3	43.7	44.1	41.0	43.5	..	..	..	..	
2952	Silver, lead, zinc smelting, refining	} ..	..	..	..	..	..	317.9	309.7	{ 292.6	320.4	271.3	
2955	Nickel smelting, refining												{ n.p.
2956	Non-ferrous metals n.e.c. smelting, refining												
2922	Smelting and refining of silver, lead and zinc	..	..	..	..	..	..	..	..	..	..		
2925	Smelting and refining of nickel	} 233.5	247.8	284.5	278.7	302.8	311.7	317.9	..	..	..	..	
2926	Smelting and refining of non-ferrous metals n.e.c.												
2953	Alumina	} ..	..	..	..	..	..	409.1	413.4	456.9	{ n.p.	506.4	
2954	Aluminium smelting												{ 234.9
2923	Alumina	{ 234.9	260.5	329.1	329.3	353.3	383.9	409.1	..	..	..	..	
2924	Smelting of aluminium												{ 234.9
2957	Secondary recovery and alloying of non-ferrous metals n.e.c.	..	..	..	..	..	..	37.5	41.9	56.4	60.4	45.9	
2931	Secondary recovery and alloying of non-ferrous metals n.e.c.	44.6	46.6	50.0	45.4	46.8	44.2	40.6	..	..	..	..	

For footnotes see end of table

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES—continued
(\$ Million)

ASIC Code(s)		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
1978 edition	1969 edition Industry class											
2961	Basic non-ferrous metals—continued—											
	Aluminum rolling, drawing, extruding							97.7	99.8	116.7	125.2	131.4
2962	Rolling, drawing and extruding of aluminum	73.3	74.8	89.4	84.8	81.2	93.6	97.7				
2962	Non-ferrous metals, n.e.c. rolling, drawing, extruding							87.4	74.6	80.6	91.0	100.8
2928	Rolling, drawing and extruding of non-ferrous metals n.e.c.	90.4	87.7	92.9	109.3	71.3	78.5	87.4				
2963	Non-ferrous metal castings							n.p.	n.p.	n.p.	n.p.	n.p.
2929	Non-ferrous metal castings	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
295	Total basic non-ferrous metals							812.3	813.6	936.2	1,013.6	967.0
296	Total non-ferrous metal basic products							209.8	200.6	226.7	246.7	268.8
292-293	Total non-ferrous metal basic products	729.6	775.6	905.7	912.2	921.3	977.4	n.p.				
29	Total basic metal products							2,208.7	2,327.3	2,579.3	2,714.4	2,679.4
29(f)	Total basic metal products	1,917.9	2,071.2	2,310.8	2,273.2	2,110.5	2,251.5	2,247.4				
	FABRICATED METAL PRODUCTS											
	Structural metal products—											
3141	Fabricated structural steel							256.5	298.7	315.4	360.0	399.8
3111	Fabricated structural steel	282.4	258.5	270.0	252.3	218.2	227.6	234.5				
3142	Architectural aluminum products							110.2	121.8	135.5	150.8	155.5
3112	Architectural aluminum products	97.6	115.5	122.4	109.0	118.4	120.0	110.2				
3143	Architectural metal products n.e.c.							39.1	42.7	50.4	48.6	54.4
3113	Architectural metal products n.e.c.	42.5	44.3	40.6	31.7	28.7	32.2	37.6				
314	Total structural metal products							405.8	463.2	501.3	559.4	609.7
311(c)	Total fabricated structural metal products	509.4	521.1	553.2	494.6	458.1	480.6	483.4				
	Sheet metal products—											
3151	Metal containers							180.5	178.7	185.3	180.0	170.9
3121	Metal containers	117.6	114.9	128.2	128.5	134.0	134.2	147.5				
3152	Sheet metal furniture							36.9	42.3	41.4	42.8	43.8
3122	Sheet metal furniture	32.4	28.9	36.8	30.4	33.6	35.4	36.9				
3153	Sheet metal products n.e.c.							239.3	245.9	276.5	275.3	277.6
3123	Sheet metal products n.e.c.	292.4	246.6	285.3	235.6	244.8	250.0	239.8				
315	Total sheet metal products							456.7	466.9	503.2	498.1	492.3
312	Total sheet metal products	442.4	390.4	450.3	394.5	412.4	419.6	424.2				
	Other fabricated metal products—											
3161	Cutlery and hand tools n.e.c.							32.3	31.1	27.8	30.2	32.2
3131	Cutlery and hand tools	32.6	37.5	37.2	37.4	39.7	38.6	n.p.				
3162	Springs and wire products							125.4	126.6	139.7	125.4	137.0
3132	Springs and wire products	147.0	142.0	148.3	132.4	116.7	117.0	n.p.				

For footnotes see end of table.

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES—continued
(\$ Million)

ASIC Code(s)		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
1978 edition	1969 edition Industry class											
	Other fabricated metal products— <i>continued</i>											
3163	3133 Nuts, bolts, screws and rivets	77.5	81.2	99.8	79.5	71.1	70.4	72.5	78.4	78.9	85.2	76.4
	Nuts, bolts, screws and rivets							72.5				
3164	3134 Metal coating and finishing	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	79.5	87.4	88.5	105.2	122.0
	Metal coating and finishing							n.p.				
3165	3135 Non-ferrous steam, gas and water fittings	75.8	81.7	78.8	60.1	61.6	65.3	60.7	66.4	71.8	80.7	76.5
	Steam, gas and water fittings							60.7				
3166	3114(d) Boiler and plate work	86.9	102.8	120.2	101.6	92.8	100.8	65.0	55.6	55.3	69.9	71.5
	Boiler and plate work							101.1				
3167	3136 Metal blinds and awnings	34.9	36.2	33.8	32.2	32.2	33.6	33.2	38.1	26.4	26.4	28.9
	Metal blinds and awnings							33.2				
3168	3137 Fabricated metal products n.e.c.	292.3	317.9	317.0	299.3	269.5	261.5	243.4	260.6	256.9	246.0	246.0
	Fabricated metal products n.e.c.							243.2				
316	Total other fabricated metal products	727.6	764.4	792.0	713.5	662.7	661.3	712.0	744.2	745.3	769.0	790.5
31	31 Total fabricated metal products	1,679.4	1,675.9	1,798.5	1,602.6	1,533.2	1,561.7	1,574.5	1,674.3	1,749.8	1,826.5	1,892.5
	Total fabricated metal products							1,543.5				
	TRANSPORT EQUIPMENT											
3231	3211 Motor vehicles and parts— Motor vehicles	795.2	781.6	830.4	804.0	728.6	814.0	745.9	748.7	807.1	683.3	773.1
	Motor vehicles							740.0				
3232	3212 Motor vehicle bodies, trailers, caravans							118.4	112.6	110.7	112.3	104.0
	Trucks and bus bodies, trailers and caravans	81.1	92.3	116.3	119.9	134.4	135.1	117.3				
3233	3213 Motor vehicle instruments and electrical equipment n.e.c.							48	49.9	57.0	57.7	70.5
	Motor vehicle instruments and electrical equipment n.e.c.	49.0	49.5	58.5	44.6	45.9	49.4	48.3				
3234	3214 Motor vehicle parts n.e.c.	357.6	368.2	409.5	362.9	354.1	375.3	337.7	403.8	466.3	443.8	484.9
	Motor vehicle parts n.e.c.							342.8				
323	Total motor vehicles and parts	1,282.9	1,291.6	1,414.7	1,331.4	1,263.0	1,373.8	1,250.7	1,315.0	1,441.1	1,297.1	1,432.5
	Total motor vehicles and parts							1,248.7				
	Other transport equipment—											
3241	3221 Ships	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	Ship building and repair							n.p.				
3242	3222 Boats	25.1	27.4	30.7	28.5	33.3	39.2	38.1	41.8	38.8	38.1	36.5
	Boat building and repair							38.1				
3243	3223 Railway rolling stock and locomotives							307.0	308.2	323.9	328.3	341.0
	Locomotives, rolling stock manufacture and repair	328.7	309.2	311.4	306.7	309.8	308.2	307.0				
3244	3224 Aircraft	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	Aircraft building and repair							n.p.				
3245	3225 Transport equipment n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n	n.p.	n.p.
	Transport equipment n.e.c.							n.p.				
324	Total other transport equipment	819.6	786.6	800.5	780.1	809.9	761.5	749.1	718.2	760.4	771.6	768.5
	Total other transport equipment							746.9				
32	32 Total transport equipment	2,102.5	2,078.2	2,215.2	2,111.5	2,072.9	2,135.3	1,999.8	2,033.2	2,201.5	2,068.7	2,201.0
	Total transport equipment							1,995.6				

For footnotes see end of table

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES - continued
(\$ Million)

ASIC Code(a)		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
1978	1969											
edition edition Industry class												
OTHER MACHINERY AND EQUIPMENT												
Photographic, professional and scientific equipment												
3341	Photographic and optical goods	...	...	...	...	...	...	42.5	60.9	57.3	59.3	64.3
3342	Photographic film processing	...	...	...	...	...	...	48.9	53.7	58.0	59.1	76.6
3311	Photographic equipment and supplies, optical instruments and film processing	49.0	52.0	67.1	80.3	85.7	90.8	n.p.	...	...	...	...
3343	Measuring, professional and scientific equipment n.e.c.	...	...	...	...	...	...	n.p.	n.p.	n.p.	n.p.	n.p.
3312	Measuring apparatus and professional and scientific equipment and supplies n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	...	...	...	...
334	Total photographic, professional and scientific equipment	...	...	...	...	...	...	150.7	182.1	177.8	181.7	197.5
331	Total photographic, professional and scientific equipment	84.4	96.7	117.4	129.6	137.8	148.1	n.p.	...	...	...	...
Appliances and electrical equipment												
3351	Radio and TV receivers; audio equipment	...	...	...	...	...	...	87.6	75.6	76.6	85.1	78.5
3352	Electronic equipment n.e.c.	...	...	...	...	...	...	206.6	220.8	237.3	275.3	317.4
3321	TV, radios and electronic equipment n.e.c.	206.4	227.3	253.5	302.2	333.0	332.4	296.0	...	...	...	...
3353	Refrigerators and household appliances	...	...	...	...	...	...	292.0	315.7	337.0	337.5	352.3
3322	Refrigerators and household appliances	274.6	294.9	351.1	322.2	327.0	317.9	292.0	...	...	...	...
3354	Water heating systems	...	...	...	...	...	...	29.2	30.7	33.8	37.4	38.7
3323	Water heating systems	21.5	26.0	28.2	26.1	25.8	30.3	n.p.	...	...	...	...
3355	Electric and telephone cable and wire	...	...	...	...	...	...	90.6	87.0	85.1	99.9	108.6
3324	Electric and telephone cable and wire	90.7	83.7	84.0	96.1	87.9	80.9	90.6	...	...	...	...
3356	Batteries	...	...	...	...	...	...	56.9	53.2	50.0	51.4	43.9
3325	Batteries	47.1	46.2	47.2	52.0	55.3	55.9	57.3	...	...	...	...
3357	Electrical machinery and equipment n.e.c.	...	...	...	...	...	...	358.8	384.4	378.9	396.4	415.7
3326	Electrical machinery and equipment n.e.c.	427.6	405.6	422.6	394.1	381.5	376.3	n.p.	...	...	...	...
335	Total appliances and electrical equipment	1,067.9	1,083.7	1,186.6	1,192.7	1,210.5	1,193.7	1,121.7	1,167.4	1,198.7	1,283.0	1,355.1
332	Total appliances and electrical equipment	1,067.9	1,083.7	1,186.6	1,192.7	1,210.5	1,193.7	n.p.	...	...	...	...
Industrial machinery and equipment												
3361	Agricultural machinery	...	...	...	...	...	...	149.4	145.5	163.1	170.4	177.7
3331	Agricultural machinery and equipment	125.4	141.1	169.0	181.2	170.6	174.4	149.4	...	...	...	...
3362	Construction machinery	...	...	...	...	...	...	35.9	34.8	34.1	35.1	33.7
3332	Construction and earthmoving machinery	44.2	46.9	49.1	45.6	35.4	36.7	36.2	...	...	...	...
3363	Materials handling equipment	...	...	...	...	...	...	95.5	104.1	106.8	123.1	132.2
3333	Materials handling equipment	100.2	97.6	103.5	99.9	94.1	86.8	n.p.	...	...	...	...

For footnotes see end of table.

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES *continued*
(\$ Million)

ASIC Code(s)													
1978 edition	1969 edition	Industry class	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
		Industrial machinery and equipment— <i>continued</i>											
3364		Wood and metal working machinery	...	...	...	...	...	...	51.2	52.7	62.4	63.7	62.9
	3334	Woodworking and metalworking machinery	57.8	51.8	63.6	56.8	50.7	45.7	n.p.	...	...	...	...
3365		Pumps and compressors	...	...	...	...	...	...	75.0	83.0	77.3	88.5	88.1
	3335	Pumps and compressors	102.1	102.7	102.2	89.3	92.8	80.1	78.5	...	...	...	...
3366		Commercial space heating and cooling equipment	...	...	...	...	...	...	53.9	47.9	48.8	47.0	39.1
	3336	Commercial space heating and air conditioning equipment	37.5	45.2	50.9	55.3	44.7	52.2	53.9	...	...	...	...
3367		Dies, sawblades and machine tool accessories	...	...	...	...	...	...	78.5	83.6	89.0	86.4	85.3
	3337	Dies, sawblades and machine tool accessories	60.3	67.2	73.6	70.2	66.7	76.6	n.p.	...	...	...	...
3368		Food processing machinery	...	...	...	...	...	...	39.9	45.8	47.7	42.0	50.2
	3338	Food processing machinery	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	...	...	...	...
3369		Industrial machinery and equipment n.e.c.	...	...	...	...	...	...	416.4	427.9	441.3	484.7	504.5
	3339	Industrial machinery and equipment n.e.c.	466.4	433.6	461.0	467.9	411.0	405.9	416.8	...	...	...	...
336		Total industrial machinery and equipment	...	...	...	...	...	...	905.7	1,025.3	1,070.5	1,141.7	1,173.7
	333	Total industrial machinery and equipment	1,058.7	1,051.0	1,136.4	1,131.5	1,026.5	1,014.9	997.9	...	...	...	...
33		Total other machinery and equipment	...	...	...	...	...	...	2,268.1	2,374.8	2,447.0	2,606.4	2,726.3
	33	Total other machinery and equipment	2,211.0	2,231.4	2,440.4	2,453.8	2,374.8	2,356.7	2,273.0	...	...	...	...
MISCELLANEOUS MANUFACTURING													
		Leather and leather products—											
3451		Leather tanning and fur dressing	...	...	...	...	...	...	69.7	80.6	72.9	79.2	90.6
	3411	Leather tanning and fur dressing	60.4	45.5	46.6	40.5	46.9	58.9	69.7	...	...	...	...
3452		Leather and leather substitute goods n.e.c.	...	...	...	...	...	...	27.3	26.5	26.8	29.7	29.3
	3412	Leather and substitute products n.e.c.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	...	...	...	...
345		Total leather and leather products	...	...	...	...	...	...	97.0	107.1	99.7	108.9	119.9
	341	Total leather and leather products	95.9	80.8	82.5	71.3	76.7	88.9	96.9	...	...	...	...
		Rubber products—											
3461		Rubber tyres, tubes, belts, hose and sheets	...	...	...	...	...	...	142.3	152.2	149.9	155.2	166.3
	3421	Rubber tyres, tubes, belting, hose and sheets	139.0	139.4	149.1	144.9	142.7	137.3	125.4	...	...	...	...
3462		Rubber products n.e.c.	...	...	...	...	...	...	72.4	80.9	80.0	86.8	87.4
	3422	Rubber products n.e.c.	71.7	80.2	93.7	83.6	76.0	79.0	72.3	...	...	...	...
346		Total rubber products	...	...	...	...	...	...	214.7	233.1	229.9	242.0	253.7
	342	Total rubber products	210.7	219.6	242.8	228.5	218.7	216.3	197.7	...	...	...	...

For footnotes see end of table

MANUFACTURING GROSS PRODUCT AT AVERAGE 1979-80 PRICES—continued
(\$ Million)

ASIC Codes(a)		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
1978	1969	Industry class										
3471	3431	Plastic and related products— Flexible packaging and abrasive papers Flexible packaging and packaging materials (except paper), adhesive tapes and abrasive papers										
		81.6	97.6	109.4	111.1	107.5	120.4	124.9	126.0	135.1	144.6	147.9
3472	3432	Rigid plastic sheeting Rigid plastic sheeting										
		16.8	15.8	8.5	10.9	9.1	9.1	9.6	13.1	14.5	n.p.	n.p.
3473	3433	Hard surface floor coverings n.e.c. Hard surface floor coverings n.e.c.										
		17.6	16.6	16.2	12.9	11.9	9.7	8.5	8.4	9.3	n.p.	n.p.
3474	3434	Plastic products n.e.c. Plastic products n.e.c.										
		225.4	277.2	342.2	306.0	320.7	336.8	353.0	385.8	396.0	402.9	433.1
347		Total plastic and related products										
343		341.4	407.2	476.3	440.9	449.2	476.0	495.3	542.4	564.4	575.8	605.0
3481		Other manufacturing— Ophthalmic articles Jewellery and silverware Brooms and brushes										
3482								n.p.	n.p.	n.p.	n.p.	n.p.
3483												
3441												
3442												
3443												
3484		Signs and advertising displays Signs and advertising displays										
3444		34.3	37.7	42.7	35.7	37.6	41.4	43.3	57.8	62.2	63.2	62.5
3485		Sporting equipment Sporting equipment										
3445		22.3	22.8	29.0	26.9	28.3	26.9	26.6	29.9	29.9	29.5	27.0
3486		Writing and marking equipment Writing and marking equipment										
3446		13.5	13.5	17.0	17.8	16.2	19.8	18.7	17.4	18.4	19.8	14.7
3487		Manufacturing n.e.c. Manufacturing n.e.c.										
3447		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
348		Total other manufacturing										
344		176.6	179.4	207.0	190.8	202.9	203.1	178.7	190.1	188.2	191.8	190.3
34		Total miscellaneous manufacturing										
34		824.6	887.0	1,008.6	931.5	947.5	982.3	987.5	1,072.7	1,082.2	1,118.5	1,168.9
C		TOTAL MANUFACTURING										
C		17,497.2	18,236.4	19,581.1	18,664.4	18,487.0	18,998.3	18,830.8	19,625.4	20,513.2	20,967.5	21,493.1

(a) Estimates for the years 1971-72 to 1977-78 are based on the 1969 edition of the ASIC. Estimates for the years 1977-78 to 1981-82 are based on the 1978 edition of ASIC. See paragraph 19 of the Explanatory notes. (b) Includes freezing of seafoods (other than whole finfish or oysters) which in the 1969 edition of ASIC was primarily to ASIC subdivision 46-47 Wholesale Trade. (c) The constant price gross product estimate for this ASIC group is the sum of the estimates for all the ASIC classes which constitute the ASIC group. (d) The constant price gross product estimate for this ASIC class is included in the total for the ASIC group to which this class belongs. (e) The constant price gross product estimate for this ASIC group is the sum of the estimates for the ASIC classes which constitute the ASIC group only. (f) The constant price gross product estimates for the 1969 edition ASIC group 291, ASIC subdivision 29 and total manufacturing do not include estimates for ASIC class 2911 Iron Ore Pelletising, which in the 1978 edition of ASIC is classified to ASIC Division B—Mining.