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Business Statistics Office

# Business Monitor

Report on the  
Census of Production

Provisional Results

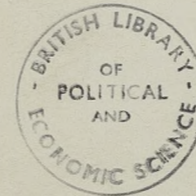
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**PA 1000**

# **Business Monitor**

A publication of the Government Statistical Service

**1979**

**Census of Production**

**Provisional Results**

**PA1000 Provisional Results**

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Enquiries about statistics in this publication should be made to the Business Statistics Office, Cardiff Road, Newport, Gwent, NPT 1XG Telephone 0633-56111 ext 2455.

**Department of Industry  
Business Statistics Office**

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## List of Industry Reports, etc.

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PA271.3	Miscellaneous chemicals	PA417.2	Warp knitting
PA272	Pharmaceutical chemicals and preparations	PA418	Lace
PA273	Toilet preparations	PA419	Carpets
PA274	Paint	PA421	Narrow fabrics
PA275	Soap and detergents	PA422.1	Household textiles and handkerchiefs
PA276	Synthetic resins and plastics materials and synthetic rubber	PA422.2	Canvas goods and sacks and other made-up textiles
PA277	Dyestuffs and pigments	PA423	Textile finishing
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PA279.1	Polishes	PA429.2	Miscellaneous textile industries
PA279.2	Formulated adhesives, gelatine, etc.	PA431	Leather (tanning and dressing) and fellmongery
PA279.3	Explosives and fireworks	PA432	Leather goods
PA279.4	Formulated pesticides, etc.	PA433	Fur
PA279.5	Printing ink	PA441	Weatherproof outerwear
PA279.6	Surgical bandages, etc.	PA442	Men's and boys' tailored outerwear
PA279.7	Photographic chemical materials	PA443	Women's and girls' tailored outerwear
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PA313	Iron castings, etc.	PA446	Hats, caps and millinery
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PA332	Metal-working machine tools	PA461.2	Building bricks and non-refractory goods
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PA333.2	Valves	PA463	Glass
PA333.3	Compressors and fluid power equipment	PA464	Cement
PA334	Industrial engines	PA469.1	Abrasives
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PA336	Construction and earth-moving equipment	PA471	Timber
PA337	Mechanical handling equipment	PA472	Furniture and upholstery
PA338	Office machinery	PA473	Bedding, etc.
PA339.1	Mining machinery	PA474	Shop and office fitting
PA339.2	Printing, bookbinding and paper goods machinery	PA475	Wooden containers and baskets
PA339.3	Refrigerating machinery, space-heating, ventilating and air-conditioning equipment	PA479	Miscellaneous wood and cork manufactures
PA339.5	Scales and weighing machinery and portable power tools	PA481	Paper and board
PA339.7	Food and drink processing machinery and packaging and bottling machinery	PA482.1	Cardboard boxes, cartons and fibre-board packing cases
PA339.9	Miscellaneous (non-electrical) machinery	PA482.2	Packaging products of paper and associated materials
PA341	Industrial (including process) plant and steelwork	PA483	Manufactured stationery
PA342	Ordnance and small arms	PA484.1	Wallcoverings
PA349.1	Ball, roller, plain and other bearings	PA484.2	Miscellaneous manufactures of paper and board
PA349.2	Precision chains and other mechanical engineering	PA485	Printing, publishing of newspapers and periodicals
PA351	Photographic and document copying equipment	PA489	General printing and publishing
PA352	Watches and clocks	PA491	Rubber
PA353	Surgical instruments and appliances	PA492	Linoleum, plastics floor-covering, leathercloth, etc.
PA354	Scientific and industrial instruments and systems	PA493	Brushes and brooms
PA361	Electrical machinery	PA494.1	Toys, games and children's carriages
PA362	Insulated wires and cables	PA494.3	Sports equipment
PA363	Telegraph and telephone apparatus and equipment	PA495	Miscellaneous stationers' goods
PA364	Radio and electronic components	PA496	Plastics products
PA365.1	Gramophone records and tape recordings	PA499.1	Musical instruments
PA365.2	Broadcast receiving and sound reproducing equipment	PA499.2	Miscellaneous manufacturing industries
PA366	Electronic computers	PA500	Construction
PA367	Radio, radar and electronic capital goods	PA601	Gas
PA368	Electrical appliances primarily for domestic use	PA602	Electricity
		PA603	Water supply
		PA1002	Summary tables

## Notes

### Introduction

1. This Business Monitor presents provisional estimates of some of the principal results of the Census of Production for 1979 with comparative data for 1977 and 1978. The monitor includes operating ratios for 1979 calculated from census measures of output, investment, manpower and labour costs. The Report on the Census of Production, 1979, will also be published in the Business Monitor PA series. A full list of proposed monitors appears opposite.

2. Censuses of Production are taken annually for Great Britain by the Department of Industry's Business Statistics Office under the Statistics of Trade Act, 1947 and for Northern Ireland by the Department of Commerce, Belfast, under the Statistics of Trade (Northern Ireland) Act, 1949. The information collected separately for Northern Ireland is included in the United Kingdom totals published in the Business Monitors.

3. The Census of Production forms part of a system of industrial statistics mainly brought into operation between 1970 and 1973. The rest of the system comprises selected monthly inquiries into manufacturers' sales, orders and production, quarterly inquiries into the product sales of manufacturing industries and less frequent inquiries into additional subjects including details of purchases of goods and services by industry.

### Objectives

4. The main objective of the series of annual censuses is to provide information about the structure of industry in the United Kingdom, which will be useful to industry, economic analysts and Government alike and will facilitate international comparisons with other member states of the European Community. The censuses make possible the comparison of the characteristics of an industry either between years or with other industries in the same year.

### Coverage

5. The Censuses for 1977-1979 covered United Kingdom establishments engaged in manufacturing, mining and quarrying, construction, electricity, gas and water supply (Orders II-XXI of the Standard Industrial Classification (revised 1968) (SIC)). In recent censuses returns have been required from all establishments employing 20 or more. For the 1978 and 1979 censuses in 68 selected manufacturing industries coverage of establishments in the 20 to 49 employment size band has been reduced to a 1 in 2 sample. This change has relieved some 5,800 firms of the need to complete a census return. In the construction industry, where firms employing fewer than 20 persons account for a relatively high proportion of total employment and output, a sample was taken of establishments employing fewer than 20 employees.

### Industrial Classification

6. The United Kingdom SIC was first issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. The general principles followed are those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity and is not a commodity classification. However, an index of all commodity headings for which sales data are provided in the Quarterly Business Monitors is published in Business Monitor PO1000.

### Period covered

7. Establishments were asked to make returns in respect of the calendar year but a return for a business year ending on any date from 6 April 1979 to 5 April 1980 was accepted. Returns covering less than twelve months were accepted in those cases where businesses had started or ceased during the year.

### Estimation

8. The provisional results include estimates, as will the final results, for non-respondents, unsatisfactory returns and establishments not required to make returns.

### Symbols used

9. The following symbols are used throughout the PA series of Business Monitors:

- .. not available
- nil or less than half the final digit shown
- \* figures cannot be shown owing to the risk of disclosing information about individual enterprises
- R revised

### Rounding of figures

10. Figures in the tables have, where necessary, been rounded to the nearest final digit.

### Collection of data

11. Questionnaires for the 1979 Census were despatched in January 1980 and computer generated reminder letters were despatched during May, June and August, 1980. If the reminders failed to produce a response, establishments whose figures are of particular importance to the inquiry are contacted by telex, telephone or a personal visit. Every effort is made to persuade establishments to provide returns promptly.

### Response

12. The estimates for 1979 in Tables 1 and 2 are based on questionnaires received at the Business Statistics Office up to the end of September 1980.



The response for each industry, based on employment, is indicated in Table 1. Response is estimated to cover per cent of total employment in manufacturing industries.

#### Results

13. Final results of the 1979 Census, including analyses by size of establishment and by region will appear in 164 separate industry Business Monitors (PA series). Publication of the monitors will begin in the second quarter of 1981. Compilation of the final results for the 1977 Census has been completed and all industry monitors have been published. Publication of 1978 final results commenced in the third quarter of 1980. Tables 1 and 2 give comparative data for 1977-1979. The results for 1977 are compiled from the final industry monitors for 1977. The 1978 results are final with the exception of a few industries for which provisional results are only available. An indication of the likely size of revisions between provisional and final results is given in Table 3. This table has been compiled from the census results for 1975-1977. Table 4 - the operating ratios shown in this table are provisional estimates only. Final figures for these ratios will appear in the separate industry Business Monitors.

#### EXPLANATION OF TERMS USED

##### Employment

14. Establishments were required to state the average number of persons on the payroll during the year of return. Separate figures were required for:

- (a) administrative, technical and clerical employees
- (b) all other employees (operatives)

Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. Full-time and part-time employees are included but outworkers (i.e. persons employed by establishments who worked in their own homes etc., on materials supplied by the establishment) are excluded.

##### Gross output

15. In the calculation of gross output the value of total sales and work done is increased by the rise (or reduced by the fall) during the year in the value of work in progress and goods on hand for sale.

##### Net output

16. Net output, a customary census measure, is calculated by deducting from gross output the cost of purchases (reduced by the rise or increased by the fall, during the year, of stocks of materials etc.) and the cost of industrial services received, and where applicable, duties etc.

##### Gross value added at factor cost

17. Gross value added at factor cost is calculated by deducting from net output the cost of non-industrial services (rent of buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport and advertising), rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in national accounts statistics.

Gross value added data may be used in conjunction with other census results to derive operating ratios providing measures of industrial performance. Of particular interest is gross value added per head, which is derived by dividing the gross value added by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

##### Operating ratios

18. For each industry the operating ratios shown were obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the corresponding estimate of the quantity shown in the denominator. These estimates cover all establishments classified to each industry, including not selected establishments and non-respondents. In comparing the ratios between different industries, consideration must be given to the nature of the business carried on by firms in the industries concerned. Within an industry, it is possible to compare ratios for an individual firm with the ratios shown for the relevant industry. However, it is important to bear in mind that various factors may affect the results - for example, differences in definitions, treatment of depreciation (which is not identified in the census data) and varying practice with regard to stock valuation, may affect comparability in some respects.

19. Business Monitor PA1001 - Introductory Notes sets out in greater detail the notes for guidance and explanation of how a census is conducted.

#### TABLES



**TABLE 1 Output, costs and employment, 1977-1979**  
All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)	Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
											Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
			£ million	£ million	£ million	£ million	£ million	£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%
<b>ORDER II</b>	<b>Mining and quarrying (g)</b>	1977	3,326.3	15.1	214.0	3,555.4	922.6	52.5	2,580.3	281.6	2,298.7	6,850	335.6	298.4	36.6	1,063.6	158.0	
		1978	3,809.5	15.8	296.4	4,121.6	1,049.8	39.6	3,032.1	323.8	2,708.1	8,231	329.0	291.9	36.3	1,280.0	188.8	
		1979	4,390.8	23.1	251.2	4,665.0	1,119.9	94.7	3,450.5	383.6	3,066.8	9,468	323.9	287.6	35.7	1,472.6	222.5	95
101	Coal mining	1977	2,507.8(h)	—	33.9	2,541.8	611.4(j)	14.9	1,915.5	83.9	1,831.6	6,253	292.9	265.6	27.3	946.6	121.6	
		1978	2,861.3(h)	—	91.8	2,953.1	678.5(j)	-8.8	2,283.4	93.7	2,189.6	7,619	287.4	259.9	27.5	1,149.0	149.5	
		1979	3,380.1(h)	—	6.9	3,387.0	725.1(j)	56.9	2,605.1	108.6	2,496.4	8,784	284.2	257.0	27.2	1,325.9	176.8	100
102	Stone and slate quarrying and mining	1977	341.4(k)	6.1	93.6	441.1	161.1	14.2	265.8	93.6	172.2	10,367	16.6	13.0	3.3	45.3	12.3	
		1978	400.6(k)	7.2	118.6	526.3	176.4	13.4	336.5	113.5	223.0	13,794	16.2	12.6	3.2	50.7	13.6	
		1979	447.9(k)	9.6	141.6	599.0	204.5	12.3	382.2	146.8	235.4	15,007	15.7	12.2	3.2	58.4	15.6	59
103	Chalk, clay, sand and gravel extraction	1977	356.9(k)	6.0	70.6	433.4	107.7	16.2	309.5	82.0	227.5	11,351	20.0	15.0	4.7	51.0	18.0	
		1978	419.4(k)	7.0	73.7	500.1	151.5	25.2	323.3	96.5	226.8	11,579	19.6	14.7	4.5	56.0	19.1	
		1979	403.9(k)	8.9	86.6	499.4	128.5	18.5	352.5	106.7	245.8	13,162	18.7	14.1	4.3	62.1	23.0	56
104	Petroleum and natural gas	1977	2,647.4	0.1	2.9	2,650.4	599.9(p)	233.7(q)	..	..	1,816.8	..	8.5(r)	..	..	63.0(l)	..	
		1978	3,332.5(n)	(m)	-1.5	3,331.0	619.3(p)	286.3(q)	..	..	2,425.4	..	9.9(r)	..	..	83.3(l)	..	
		1979	6,379.5	2.3	9.0	6,390.8	771.0(p)	581.0(q)	..	..	5,038.8	..	11.4(r)	..	..	129.3(l)	..	..
109 (1)(2) (3)(4)	Miscellaneous mining and quarrying	1977	120.2(k)	3.0	15.9	139.1	42.4	7.2	89.5	22.1	67.4	11,014	6.1	4.8	1.3	20.7	6.1	
		1978	128.2(k)	1.6	12.3	142.1	43.4	9.8	88.9	20.1	68.7	11,842	5.8	4.7	1.1	24.3	6.6	
		1979	158.9(k)	4.6	16.1	179.6	61.8	7.0	110.7	21.5	89.2	16,734	5.3	4.3	1.0	26.2	7.1	86
<b>ORDERS III-XIX</b>	<b>All manufacturing industries</b>	1977	119,768.2	9,714.5	2,546.6	132,029.7	75,041.2	6,126.3	50,862.6	6,870.7	43,991.9	6,042	7,280.3	5,196.8	2,006.8	15,863.1	7,891.4	
		1978	129,025.2	11,894.9	2,059.9	142,980.1	83,000.5	3,145.4	56,834.2	8,194.2	48,640.1	6,845	7,106.0	5,049.8	1,980.9	17,622.8	8,996.7	
		1979	147,486.3	13,814.5	3,484.8	164,785.1	91,233.0	7,098.8	66,453.0	10,010.1	56,443.0	8,119	6,952.4	4,894.0	1,982.4	19,871.0	10,580.8	66
<b>ORDER III</b>	<b>Food, drink and tobacco</b>	1977	22,344.1(n)	2,467.8(n)	285.2	25,097.4	15,004.1	3,517.1	6,576.3	983.0	5,592.9	7,336	762.4	595.7	162.1	1,656.7	589.6	
		1978	23,989.9(n)	2,779.2(n)	199.9	26,969.0	15,671.3	3,879.7	7,418.3	1,213.2	6,205.1	8,337	744.3	580.7	159.3	1,825.9	674.0	
		1979	26,549.8(n)	3,560.8(n)	305.5	30,416.3	17,504.2	4,380.7	8,531.5	1,514.7	7,017.1	9,593	731.5	565.9	161.9	2,113.6	826.0	72
211	Grain milling	1977	1,024.4	57.6	3.5	1,085.6	834.5	-0.8	251.9	57.4	194.5	10,365	18.8	13.8	4.8	48.4	19.3	
		1978	1,126.5	74.8	4.7	1,206.0	935.7	8.8	261.4	64.7	196.7	10,731	18.3	13.3	4.8	55.6	21.5	
		1979	1,171.3	98.8	-0.4	1,269.8	993.0	0.6	276.2	66.0	210.2	12,644	16.6	12.1	4.3	59.6	22.6	88
212	Bread and flour confectionery	1977	1,142.6	172.2	1.0	1,315.8	767.6	0.9	547.3	53.2	494.1	3,540	139.6	122.1	16.4	284.2	46.5	
		1978	1,240.0	183.8	1.5	1,425.3	810.2	19.9	595.2	60.0	535.2	4,130	129.6	113.5	15.2	298.2	48.9	
		1979	1,386.8	232.4	1.1	1,620.3	901.2	19.8	699.3	69.5	629.8	4,926	127.9	112.0	14.9	350.1	58.0	73
213	Biscuits	1977	590.9	62.3	3.8	657.0	381.2	0.1	275.7	22.4	253.2	5,356	47.3	40.0	7.3	87.6	20.2	
		1978	585.2	42.4	1.4	629.0	368.7	4.7	255.6	26.1	229.4	4,985	46.0	38.6	7.4	93.0	24.0	
		1979	625.3	52.0	9.9	687.2	406.2	6.0	275.0	46.4	228.6	5,121	44.6	37.3	7.4	106.9	30.1	58
214	Bacon curing, meat and fish products	1977	2,460.0	203.3	42.3	2,705.6	1,956.7	20.6	728.2	141.0	587.2	4,564	128.7	104.9	22.8	256.5	79.6	
		1978	2,595.2	259.0	11.1	2,865.3	2,061.6	27.0	776.8	164.9	611.9	4,811	127.2	103.8	22.6	281.5	90.6	
		1979	3,113.5	263.9	40.3	3,417.8	2,396.3	24.7	996.7	221.8	775.0	6,020	128.7	104.4	23.6	340.8	112.5	62
215	Milk and milk products	1977	2,616.5	314.2	12.8	2,943.5	2,291.6	15.4	636.4	92.1	544.3	9,575	56.8	44.7	11.5	155.3	37.2	
		1978	2,789.2	338.8	33.8	3,161.7	2,465.1	21.2	675.5	97.8	577.7	10,421	55.4	43.9	10.9	165.4	39.1	
		1979	2,994.7	355.8	-5.2	3,345.3	2,685.0	-30.0	690.3	105.0	585.3	10,796	54.2	42.2	11.5	188.3	49.7	54
216	Sugar	1977	689.9	78.5	17.9	786.3	533.7	25.2	227.4	37.6	189.7	15,003	12.6	9.2	3.4	34.0	16.7	
		1978	661.5	49.8	12.3	723.6	507.6	17.9	198.2	42.0	156.2	12,748	12.3	9.0	3.3	37.4	21.4	
		1979	712.0	48.5	4.3	764.8	542.4	-0.6	223.0	47.0	176.0	14,746	11.9	8.7	3.2	42.4	25.5	99
217	Cocoa, chocolate and sugar confectionery	1977	1,117.0	147.6	35.4	1,300.0	849.7	5.6	444.7	98.2	346.5	4,988	69.5	53.4	15.8	128.8	57.0	
		1978	1,318.3	206.5	21.2	1,546.0	990.3	18.0	537.7	127.1	410.7	5,957	68.9	52.8	15.9	148.1	67.9	
		1979	1,558.4	203.2	21.2	1,782.8	1,057.9	12.9	712.0	158.6	553.4	8,181	67.6	50.5	16.9	168.9	87.0	83



**TABLE 1 Output, costs and employment, 1977-1979**  
All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)
			£ million	£ million	£ million	£ million	£ million
<b>ORDER III Food, drink and tobacco (continued)</b>							
218	Fruit and vegetable products	1977	1,159.3	61.7	33.6	1,254.6	818.3
		1978	1,248.1	71.6	22.7	1,342.5	856.6
		1979	1,425.3	100.5	5.4	1,531.2	957.5
219	Animal and poultry foods	1977	1,886.1	325.8	7.1	2,246.1	1,876.4
		1978	1,802.2	345.1	2.5	2,149.8	1,763.2
		1979	2,155.5	417.7	20.8	2,594.0	2,079.0
221	Vegetable and animal oils and fats	1977	765.2	80.2	3.5	848.9	753.4
		1978	714.8	87.3	2.1	804.3	676.0
		1979	937.8	142.3	6.7	1,086.8	962.1
229 (1)	Margarine	1977	283.7	13.3	0.6	297.6	238.1
		1978	277.1	14.6	-	291.7	228.5
		1979	268.8	18.4	1.0	288.2	220.0
229 (2)	Starch and miscellaneous foods	1977	1,296.2	109.7	34.0	1,439.9	1,045.8
		1978	1,317.9	120.4	-9.5	1,428.8	977.0
		1979	1,318.1	139.1	4.2	1,461.4	994.7
231	Brewing and malting	1977	2,084.9	671.4	12.7	2,769.0	1,098.3
		1978	2,319.4	774.4	19.7	3,113.5	1,197.1
		1979	2,538.8	996.0	31.9	3,566.7	1,372.5
232	Soft drinks	1977	521.9	122.6	4.1	648.6	397.0
		1978	593.9	142.0	4.1	740.0	455.5
		1979	719.9	145.3	12.0	877.2	509.0
239 (1)	Spirit distilling and compounding	1977	1,275.2	17.1	57.2	1,349.6	494.2
		1978	1,512.5	60.9	127.1	1,700.4	619.5
		1979	1,717.8	72.9	136.2	1,926.9	669.5
239 (2)	British wines, cider and perry	1977	133.1	3.3	4.2	140.6	47.8
		1978	147.5	7.8	1.7	157.0	51.7
		1979	163.2(m)	(m)	3.9	167.1	56.4
240	Tobacco	1977	3,297.2(m)	(m)	11.5	3,308.7	619.8
		1978	3,740.6(m)	(m)	-56.5	3,684.1	707.0
		1979	3,742.6	274.0	12.2	4,028.8	701.5
<b>ORDER IV Coal and petroleum products</b>							
261	Coke ovens and manufactured fuel	1977	371.1(m)	(m)	31.6	402.7	301.5
		1978	419.0(m)	(m)	-7.5	411.5	303.1
		1979	485.6(m)	(m)	-17.7	467.8	351.2
262	Mineral oil refining	1977	6,907.0(m)	(m)	-56.2	6,850.8	5,853.5
		1978	6,263.3(m)	(m)	-56.5	6,206.9	5,464.7
		1979	7,877.8	484.2	375.1	8,737.0	6,946.2
263	Lubricating oils and greases	1977	345.6	23.7	4.2	373.5	247.2
		1978	354.7	25.5	-	380.3	258.5
		1979	449.2	32.9	11.1	493.2	321.3

Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
			Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%
2.1	434.2	76.8	357.3	6,416	55.7	44.1	11.3	113.3	42.4	
1.8	484.0	94.4	389.5	7,011	55.6	44.2	11.1	129.5	50.6	
16.2	557.6	120.1	437.5	8,199	53.4	42.0	11.2	145.5	61.2	76
9.2	360.6	69.7	290.9	9,747	29.8	17.9	11.4	63.2	45.9	
9.8	376.8	84.9	292.0	10,262	28.4	16.8	11.1	66.5	48.5	
-7.7	522.7	124.7	398.0	13,933	28.6	16.3	11.8	83.3	65.5	58
-6.5	102.0	23.2	78.8	9,632	8.2	5.9	2.2	21.2	9.0	
14.8	113.5	23.4	90.1	11,729	7.7	5.5	2.1	23.0	10.1	
15.4	109.3	36.2	73.1	9,207	7.9	5.5	2.4	26.7	14.3	66
2.8	56.7	10.4	46.3	10,423	4.4	3.3	1.1	11.2	4.6	
1.9	61.4	11.8	49.6	11,257	4.4	3.4	1.0	12.8	5.1	
-0.2	68.4	12.3	56.2	12,991	4.3	3.3	1.0	14.7	6.0	97
-22.1	416.3	70.3	346.0	10,011	34.6	25.7	8.7	72.6	34.6	
38.8	413.0	88.7	324.3	9,550	34.0	25.2	8.6	77.5	37.9	
1.5	465.2	101.6	363.6	11,309	32.1	23.2	8.8	85.1	44.6	79
885.4	785.3	71.3	714.0	11,552	61.8	41.0	20.8	158.8	79.7	
930.0	986.5	80.5	905.9	14,783	61.3	40.4	20.8	181.0	93.9	
1,083.5	1,110.7	132.6	978.1	16,116	60.7	40.1	20.5	213.9	112.0	72
0.5	251.1	32.0	219.0	8,497	25.8	18.9	6.6	52.9	20.1	
2.8	281.8	35.7	246.1	9,644	25.5	18.9	6.4	58.9	23.4	
6.5	361.7	45.0	316.7	12,928	24.5	18.2	6.1	66.7	28.0	76
349.3	506.1	74.5	431.6	16,655	25.9	19.4	6.5	58.3	26.0	
460.9	620.0	113.3	506.8	18,692	27.1	20.2	6.8	70.5	33.0	
544.7	712.7	133.8	578.9	21,322	27.2	20.2	6.9	80.6	40.6	92
46.8	46.1	15.2	30.9	5,993	5.2	3.3	1.9	10.8	6.3	
44.0	61.2	15.6	45.6	8,875	5.1	3.2	1.9	12.0	7.1	
48.5	62.3	14.5	47.8	9,484	5.0	3.0	2.0	14.1	8.7	87
2,182.6	506.3	37.7	468.6	12,420	37.7	28.1	9.6	99.6	44.5	
2,257.4	719.7	82.3	637.4	17,014	37.5	28.0	9.4	115.0	51.0	
2,638.9	688.4	79.6	608.9	16,760	36.3	26.9	9.4	126.0	59.7	92
82.4	1,142.4	86.6	1,055.7	30,868	34.2	23.9	10.3	98.7	50.1	
117.2	855.1	96.1	759.1	22,660	33.5	23.0	10.4	108.6	60.4	
-230.1	2,309.3	118.0	2,191.3	64,831	33.8	23.3	10.3	133.2	69.7	93
7.8	93.4	14.4	79.0	7,753	10.2	8.5	1.7	32.3	7.2	
1.6	106.7	16.7	90.1	9,500	9.5	7.8	1.7	34.2	9.1	
7.6	109.0	18.7	90.3	9,348	9.7	8.2	1.5	42.4	9.3	94
72.5	924.8	57.8	867.0	50,582	17.1	11.9	5.3	52.8	29.6	
109.3	632.9	63.4	569.5	33,507	17.0	11.6	5.4	59.8	35.6	
-237.4	2,028.2	78.5	1,949.7	114,916	17.0	11.5	5.4	72.4	41.8	97
2.1	124.2	14.4	109.7	15,907	6.9	3.5	3.3	13.6	13.3	
6.3	115.5	16.0	99.5	14,293	7.0	3.6	3.3	14.6	15.7	
-0.3	172.1	20.8	151.3	21,459	7.1	3.6	3.4	18.4	18.6	82



**TABLE 1 Output, costs and employment, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)**

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)
			£ million	£ million	£ million	£ million	£ million
<b>ORDER V</b>	<b>Chemicals and allied industries</b>	1977	11,703.9	1,436.6	259.1	13,399.8	8,071.1
		1978	12,530.7	1,561.4	124.5	14,216.7	8,445.5
		1979	14,612.4	1,777.7	379.8	16,769.7	10,149.7
271 (1)	Inorganic chemicals	1977	1,073.2	116.6	21.4	1,211.2	715.2
		1978	1,125.5	116.9	3.4	1,245.7	728.5
		1979	1,281.3	146.2	42.4	1,469.9	911.7
271 (2)	Organic chemicals	1977	2,256.0	375.7	3.3	2,635.1	1,923.6
		1978	2,203.7	428.4	9.8	2,641.9	1,943.9
		1979	2,990.9	534.2	107.9	3,633.0	2,682.5
271 (3)	Miscellaneous chemicals	1977	1,191.8	177.9	56.1	1,425.8	839.0
		1978	1,286.6	166.7	-24.8	1,428.5	830.4
		1979	1,568.4	228.2	-7.3	1,789.4	1,033.7
272	Pharmaceutical chemicals and preparations	1977	1,413.8	131.5	60.2	1,605.6	719.9
		1978	1,693.9	137.3	40.5	1,871.7	871.3
		1979	1,758.6	150.0	57.2	1,965.7	820.8
273	Toilet preparations	1977	424.6	26.1	11.3	462.0	228.1
		1978	489.4	52.9	10.5	552.8	271.0
		1979	484.4	50.5	8.3	543.2	264.5
274	Paint	1977	592.9	42.1	12.9	647.9	386.5
		1978	695.5	45.7	15.0	756.3	412.4
		1979	837.0	51.2	21.1	909.3	494.9
275	Soap and detergents	1977	662.5	40.0	9.1	711.6	455.1
		1978	697.9	26.1	6.4	730.4	444.5
		1979	828.1	39.2	13.5	880.7	555.8
276	Synthetic resins and plastics materials and synthetic rubber	1977	1,567.5	130.6	21.4	1,719.5	1,141.8
		1978	1,641.6	152.8	4.5	1,798.9	1,166.9
		1979	1,878.5	156.1	72.1	2,106.7	1,412.1
277	Dyestuffs and pigments	1977	543.0	43.2	24.5	610.7	312.5
		1978	546.2	44.9	8.1	599.2	310.3
		1979	624.8	59.4	31.0	715.1	393.4
278	Fertilizers	1977	669.5	93.5	-4.7	758.3	420.4
		1978	723.5	96.8	18.2	838.4	459.2
		1979	837.4	120.5	-2.4	955.5	538.4
279 (1)	Polishes	1977	116.4	16.0	2.1	134.5	80.8
		1978	134.0	20.0	0.3	154.4	90.3
		1979	136.8	22.1	1.4	160.2	91.9
279 (2)	Formulated adhesives, gelatine, etc.	1977	194.1	7.4	3.1	204.6	127.4
		1978	216.7	19.3	4.3	240.3	147.4
		1979	216.6	24.2	4.0	244.8	149.2
279 (3)	Explosives and fireworks	1977	316.2	3.7	28.3	348.2	179.2
		1978	329.1	4.3	9.4	342.8	186.1
		1979	327.8	3.0	20.0	350.8	196.8
279 (4)	Formulated pesticides, etc.	1977	160.0	172.2	6.0	338.2	204.2
		1978	166.2	176.4	7.1	349.8	204.2
		1979	196.1	123.2	0.8	320.1	191.6

Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
			Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%
159.4	5,168.9	865.2	4,303.7	10,598	406.1	239.4	164.9	850.0	732.8	
235.8	5,535.2	1,018.1	4,516.9	11,139	405.5	239.6	164.4	961.1	848.9	
189.8	6,429.9	1,206.9	5,223.2	12,961	403.0	236.2	165.0	1,135.9	998.1	85
21.9	474.0	71.6	402.5	11,560	34.8	21.9	12.8	92.5	61.3	
25.6	491.6	85.2	406.3	11,881	34.2	21.8	12.3	103.0	68.0	
18.3	540.0	105.5	434.5	13,419	32.4	20.5	11.7	114.6	76.8	94
67.3	644.2	125.6	518.5	13,385	38.7	24.1	14.6	100.6	80.8	
109.9	588.1	146.7	441.4	11,407	38.7	23.9	14.8	113.7	92.9	
67.0	883.5	180.2	703.3	17,340	40.6	24.9	15.6	143.3	114.7	92
8.2	578.6	60.9	517.7	12,364	41.9	22.4	19.4	82.5	87.3	
33.1	565.2	83.7	481.5	11,292	42.6	22.5	20.1	97.7	106.0	
40.7	715.0	116.3	598.7	13,438	44.5	24.0	20.4	127.1	127.7	84
8.8	876.9	139.4	737.4	11,247	65.6	33.5	31.8	100.7	131.5	
-8.4	1,008.8	162.8	846.0	12,696	66.6	33.3	33.1	113.5	159.1	
21.0	1,123.9	169.0	954.9	14,545	65.7	32.1	33.4	129.1	181.9	88
-5.0	238.9	75.0	163.9	7,188	22.8	13.1	9.5	30.8	35.2	
4.4	277.4	84.3	193.1	8,190	23.6	13.9	9.6	37.1	40.6	
-0.8	279.4	111.3	168.1	7,282	23.1	13.0	9.9	42.2	48.7	71
-1.1	262.5	56.2	206.3	7,107	29.0	15.3	13.4	47.5	51.6	
-0.6	344.5	66.6	277.9	9,733	28.5	15.5	12.8	54.1	57.1	
-1.9	416.3	95.4	320.9	11,567	27.7	14.1	13.4	61.1	71.0	67
-0.6	257.1	61.7	195.5	11,442	17.1	11.0	5.9	33.4	22.7	
2.9	283.0	66.8	216.2	13,192	16.4	10.8	5.4	37.2	25.2	
-0.3	325.2	72.7	252.5	15,095	16.7	11.5	5.0	47.5	28.6	85
35.9	541.7	91.6	450.2	8,959	50.2	31.7	18.3	123.8	88.2	
28.9	603.1	102.9	500.1	10,026	49.9	31.6	18.1	141.1	100.5	
15.0	679.7	109.6	570.1	11,746	48.5	30.7	17.6	162.4	115.3	79
6.8	291.4	23.4	268.0	13,373	20.0	13.0	7.0	52.5	35.5	
13.2	275.7	25.8	249.9	12,934	19.3	12.2	7.0	56.4	41.5	
3.3	318.4	36.6	281.8	15,257	18.5	11.8	6.6	65.4	47.3	92
16.3	321.6	60.1	261.4	13,545	19.3	11.9	7.3	50.0	38.6	
13.0	366.2	71.6	294.6	15,536	19.0	11.7	7.2	56.8	42.3	
13.4	403.7	78.0	325.7	17,589	18.5	11.4	7.0	68.0	49.5	92
-1.4	55.0	15.9	39.1	7,943	4.9	2.4	2.4	7.1	9.2	
0.2	63.8	18.4	45.4	9,177	5.0	2.6	2.3	8.5	9.8	
-0.8	69.1	20.2	48.9	10,661	4.6	2.4	2.2	9.4	10.9	86
1.9	75.3	19.1	56.2	7,616	7.4	4.0	3.3	14.6	12.9	
2.8	90.1	21.8	68.3	8,215	8.3	4.5	3.7	18.0	16.4	
1.7	93.9	25.7	68.2	8,220	8.3	4.4	3.8	19.5	18.1	80
-1.5	170.4	14.2	156.2	7,967	19.6	15.1	4.5	46.3	20.2	
1.6	155.0	15.8	139.2	7,371	18.9	14.5	4.4	50.3	22.6	
9.6	144.3	16.0	128.4	6,936	18.5	14.1	4.4	57.8	26.2	94
0.1	133.9	13.0	121.0	28,486	4.2	1.8	2.4	6.2	10.3	
2.2	143.3	17.7	125.6	29,766	4.2	1.9	2.3	7.3	11.3	
-1.7	130.2	18.3	112.0	19,131	5.9	3.1	2.8	12.5	14.4	87



**TABLE 1 Output, costs and employment, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)**

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979	
								Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)		
			£ million	£ million	£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%	
<b>ORDER V Chemicals and allied industries (continued)</b>																
279 (5)	Printing ink	1977	95.2	10.2	1.2	106.6	58.3									
		1978	106.2	11.5	2.2	119.9	64.6									
		1979	124.0	14.8	2.6	141.4	73.7									
279 (6)	Surgical bandages, etc.	1977	149.1	12.6	4.0	165.8	77.1									
		1978	164.3	13.7	2.2	180.2	79.8									
		1979	189.1	15.5	6.4	211.0	96.1									
279 (7)	Photographic chemical materials	1977	278.1	37.3	-1.1	314.2	202.0									
		1978	310.4	47.7	7.4	365.5	234.7									
		1979	332.6	39.4	0.8	372.9	242.6									
<b>ORDER VI Metal manufacture</b>																
		1977	9,361.0	357.7	17.5	9,736.2	6,545.4									
		1978	9,525.6	325.7	141.8	9,993.0	6,529.9									
		1979	10,666.5	441.7	119.7	11,227.8	7,586.1									
311	Iron and steel (general)	1977	4,918.9	28.5	-71.8	4,875.6	3,336.4									
		1978	4,837.2	31.4	90.0	4,958.6	3,335.3									
		1979	4,959.9	66.5	18.1	5,044.4	3,600.1									
312	Steel tubes	1977	733.8	14.5	31.8	780.0	467.2									
		1978	860.7	15.7	11.2	887.5	512.6									
		1979	986.5	16.3	7.6	1,010.4	637.0									
313	Iron castings, etc.	1977	822.4	21.3	4.6	848.3	392.0									
		1978	884.4	26.1	15.5	925.9	407.3									
		1979	1,002.2	22.7	2.5	1,027.4	454.9									
321	Aluminium and aluminium alloys	1977	1,228.9	105.5	25.8	1,360.2	928.8									
		1978	1,251.6	82.4	16.3	1,350.3	877.7									
		1979	1,506.0	119.5	12.1	1,637.6	1,114.7									
322	Copper, brass and other copper alloys	1977	895.7	10.7	0.5	907.0	632.1									
		1978	929.2	16.8	12.5	958.6	648.5									
		1979	1,077.1	41.3	20.9	1,139.3	736.7									
323	Miscellaneous base metals	1977	761.3	177.2	26.6	965.1	788.9									
		1978	762.5	153.3	-3.7	912.1	748.5									
		1979	1,134.8	175.4	58.5	1,368.7	1,042.7									
<b>ORDER VII Mechanical engineering</b>																
		1977	11,620.7	1,081.4	405.0	13,106.9	6,183.9									
		1978	13,162.5	1,209.8	425.9	14,798.7	6,858.5									
		1979	14,765.8	1,214.8	273.5	16,254.1	7,460.3									
331	Agricultural machinery (except tractors)	1977	289.2	54.4	10.9	354.6	203.4									
		1978	331.7	73.2	10.9	415.9	216.0									
		1979	379.0	68.9	7.9	455.9	256.1									
332	Metal-working machine tools	1977	631.5	67.0	30.1	728.5	332.0									
		1978	715.3	70.3	27.7	813.4	354.7									
		1979	788.8	89.1	36.1	914.0	400.6									
333 (1)	Pumps	1977	346.4	43.6	13.6	403.7	207.6									
		1978	390.1	46.9	6.5	443.6	213.2									
		1979	447.3	38.2	2.4	487.9	232.8									

Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
			Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%
0.2	48.0	6.9	41.1	8,231	5.0	2.5	2.4	10.3	9.9	
-0.3	55.6	7.1	48.5	9,927	4.9	2.6	2.3	11.4	11.0	
0.8	66.8	7.8	59.0	11,664	5.1	2.5	2.5	13.3	14.8	56
2.9	85.8	13.4	72.4	6,346	11.4	8.3	3.1	19.6	11.2	
2.9	97.4	17.2	80.2	7,082	11.3	8.2	3.1	21.7	12.4	
2.9	111.9	20.1	91.8	7,691	11.9	9.0	2.9	26.7	12.8	96
-1.3	113.6	17.2	96.3	6,782	14.2	7.4	6.8	31.6	26.4	
4.4	126.4	23.7	102.7	7,305	14.1	8.1	5.9	33.3	32.2	
1.6	128.6	24.2	104.4	8,343	12.5	6.7	5.8	36.0	39.4	92
291.9	2,898.9	405.2	2,493.6	5,357	465.5	348.1	115.7	1,277.8	485.2	
248.6	3,214.8	468.4	2,746.5	6,262	438.6	327.0	109.7	1,373.5	521.6	
171.5	3,470.1	579.9	2,890.2	6,765	427.2	315.5	109.8	1,541.3	618.9	51
208.2	1,330.9	231.0	1,099.9	4,709	233.6	172.1	61.2	668.9	267.3	
160.3	1,463.0	252.1	1,210.9	5,682	213.1	155.9	57.0	692.6	278.8	
59.3	1,385.0	296.4	1,088.6	5,315	204.8	149.0	55.5	787.7	323.3	39
19.4	293.4	39.3	254.1	5,612	45.3	33.1	12.1	121.7	48.5	
22.4	352.6	47.0	305.6	6,914	44.2	32.4	11.7	135.9	53.6	
10.1	363.2	61.3	301.9	6,828	44.2	30.9	13.2	130.5	65.4	41
31.7	424.6	49.5	375.0	4,922	76.2	61.0	14.4	209.6	54.4	
23.0	495.7	57.7	438.0	6,020	72.8	57.6	14.5	224.8	62.1	
25.9	546.6	77.6	469.0	6,567	71.4	56.4	14.4	264.1	78.5	55
14.1	417.4	43.2	374.1	7,418	50.4	38.2	12.0	134.7	50.9	
26.2	446.4	53.9	392.6	7,777	50.5	38.5	11.7	160.1	57.4	
33.0	489.9	62.4	427.5	8,570	49.9	37.8	11.7	179.8	67.4	70
16.3	258.6	26.4	232.2	5,667	41.0	30.4	10.3	97.7	41.6	
22.2	287.9	37.7	250.2	6,388	39.2	29.4	9.4	107.5	43.9	
21.3	381.3	45.0	336.3	8,899	37.8	28.0	9.5	116.9	53.5	81
2.2	174.0	15.8	158.3	8,311	19.0	13.3	5.7	45.2	22.5	
-5.5	169.2	20.0	149.2	7,928	18.8	13.2	5.4	52.6	25.8	
21.9	304.1	37.2	266.9	13,992	19.1	13.4	5.5	62.3	30.8	73
443.0	6,480.3	835.2	5,645.1	6,108	924.2	593.0	319.9	2,003.5	1,269.3	
553.0	7,386.8	947.8	6,439.1	7,149	900.7	576.5	313.1	2,228.4	1,447.0	
623.9	8,170.2	1,094.6	7,075.6	7,967	888.1	563.9	313.4	2,520.1	1,669.4	64
-1.1	152.3	21.0	131.3	5,759	22.8	15.6	6.6	46.5	24.5	
7.7	192.2	27.6	164.6	7,252	22.7	15.3	6.9	53.2	28.5	
0.5	199.3	30.1	169.2	7,766	21.8	14.5	6.8	59.3	32.9	57
15.5	381.1	47.0	334.1	5,603	59.6	37.9	21.3	126.4	79.4	
19.5	439.1	51.3	387.8	6,925	56.0	36.3	19.2	139.0	84.4	
29.1	484.3	60.7	423.6	7,607	55.7	35.6	19.6	152.6	102.2	56
-4.5	200.6	25.5	175.1	6,160	28.4	14.4	14.0	47.7	53.0	
-	230.4	28.0	202.4	7,342	27.6	14.4	13.1	54.7	56.5	
6.7	248.5	33.7	214.8	8,088	26.6	13.6	12.8	58.6	63.1	77



**TABLE 1 Output, costs and employment, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)**

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)	Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
											Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
<b>ORDER VII Mechanical engineering (continued)</b>																		
333 (2)	Valves	1977	319.0	15.8	8.7	343.5	151.0	5.4	187.1	20.2	166.9	6,197	26.9	17.4	9.5	54.1	36.5	
		1978	363.3	17.7	15.6	396.6	177.3	7.3	212.1	26.4	185.6	6,947	26.7	16.8	9.8	62.3	43.5	
		1979	373.3	25.2	6.0	404.5	174.0	1.6	228.9	26.6	202.2	8,104	25.0	15.7	9.2	68.2	45.2	78
333 (3)(4)	Compressors and fluid power equipment	1977	429.1	51.2	21.4	501.7	248.4	9.1	244.3	31.1	213.1	6,081	35.0	21.6	13.3	68.6	49.3	
		1978	508.4	61.7	13.4	583.5	283.2	16.6	283.7	38.2	245.5	6,907	35.5	21.9	13.5	79.2	58.8	
		1979	572.8	65.8	18.6	657.2	318.3	13.9	325.0	46.9	278.1	7,573	36.7	21.8	14.8	91.7	73.5	73
334	Industrial engines	1977	431.9	50.1	28.6	510.6	272.8	9.1	228.7	18.9	209.9	7,281	28.8	17.9	10.9	61.2	40.4	
		1978	475.3	52.3	23.8	551.4	282.1	14.2	255.1	21.2	233.9	8,388	27.9	17.6	10.3	68.0	44.5	
		1979	664.0	29.0	-0.4	692.6	352.4	23.6	316.6	25.6	291.0	8,609	33.8	22.6	11.2	100.9	58.4	79
335	Textile machinery and accessories	1977	285.3	35.6	7.2	328.1	150.6	5.8	171.7	24.0	147.7	4,935	29.9	20.9	8.7	62.9	33.0	
		1978	288.8	38.9	1.2	328.9	155.3	4.6	168.9	23.1	145.9	5,441	26.8	18.8	7.6	63.6	34.0	
		1979	307.1	26.0	4.3	337.4	157.9	6.6	172.9	25.9	147.0	5,884	25.0	17.4	7.3	69.3	37.1	67
336	Construction and earthmoving equipment	1977	851.6	240.1	31.1	1,122.8	720.4	1.2	401.2	55.0	346.2	7,786	44.5	29.1	15.2	101.7	61.3	
		1978	928.7	203.8	44.7	1,177.2	742.7	7.6	426.9	62.6	364.3	8,272	44.0	29.1	14.8	116.1	67.8	
		1979	1,011.4	145.5	1.0	1,157.8	714.3	14.7	428.8	68.9	359.8	8,093	44.5	29.4	14.9	130.4	78.4	84
337	Mechanical handling equipment	1977	864.2	42.8	40.7	947.7	492.6	2.8	452.3	54.8	397.4	6,308	63.0	40.0	22.5	133.2	82.6	
		1978	1,023.3	58.2	29.1	1,110.7	579.8	10.7	520.2	65.3	454.9	7,116	63.9	40.7	22.7	160.0	100.0	
		1979	1,082.4	48.4	13.6	1,144.4	577.9	35.6	530.8	79.6	451.2	7,130	63.3	39.7	23.0	187.3	117.0	63
338	Office machinery	1977	209.6	32.6	10.5	252.7	123.6	1.3	127.8	15.6	112.2	5,768	19.5	11.0	8.4	34.5	32.4	
		1978	175.3	38.8	9.2	223.3	102.7	4.2	116.5	15.0	101.5	6,499	15.6	8.8	6.8	31.8	30.0	
		1979	205.7	52.4	8.8	266.9	108.1	-3.5	162.4	16.0	146.4	8,918	16.4	8.4	8.0	39.0	46.1	42
339 (1)	Mining machinery	1977	422.4	34.9	14.0	471.3	271.9	11.5	187.9	19.9	168.0	6,768	24.8	16.1	8.7	55.2	34.4	
		1978	530.0	53.8	38.3	622.0	358.6	23.3	240.1	23.8	216.3	8,357	25.9	16.8	9.0	64.9	41.9	
		1979	673.8	92.5	16.1	782.5	466.6	28.4	287.5	30.1	257.4	8,994	28.6	18.5	10.0	82.3	53.7	80
339 (2)	Printing, bookbinding and paper goods machinery	1977	218.1	27.4	8.5	254.0	113.4	4.2	136.4	16.6	119.9	6,314	19.0	11.4	7.4	36.5	28.5	
		1978	258.4	32.5	8.4	299.3	127.0	6.8	165.4	22.5	143.0	7,582	18.9	11.4	7.3	43.8	32.0	
		1979	282.4	33.8	7.4	323.5	132.0	7.9	183.6	28.4	155.3	8,554	18.2	11.3	6.7	51.4	35.1	55
339 (3)(4)	Refrigerating machinery, space-heating, ventilating and air-conditioning equipment	1977	629.1	25.7	15.7	670.5	348.8	3.7	318.1	45.6	272.5	5,743	47.5	31.8	14.9	106.0	55.8	
		1978	712.8	32.2	8.3	753.4	374.1	16.7	362.6	55.4	307.2	6,436	47.7	31.4	15.6	122.3	69.5	
		1979	827.0	33.0	8.7	868.8	408.2	17.7	442.9	61.5	381.4	8,365	45.6	29.5	15.4	135.0	78.5	57
339 (5)(6)	Scales and weighing machinery and portable power tools	1977	147.4	15.7	0.1	163.2	73.9	1.7	87.5	16.4	71.1	5,357	13.3	9.3	4.0	27.0	14.9	
		1978	201.5	21.0	3.7	226.2	86.3	5.4	134.4	15.5	118.9	8,494	14.0	9.8	4.2	32.0	19.2	
		1979	251.9	32.4	4.9	289.2	126.9	3.8	158.5	22.1	136.4	9,054	15.1	10.2	4.8	39.7	26.5	64
339 (7)(8)	Food and drink processing machinery and packaging and bottling machinery	1977	345.5	36.4	25.8	407.7	183.6	11.5	212.7	26.2	186.5	6,071	30.7	17.7	12.8	60.0	49.0	
		1978	392.4	47.6	2.5	442.5	195.4	17.2	229.9	29.2	200.7	6,711	29.9	17.2	12.5	67.1	58.1	
		1979	340.0	70.8	8.5	419.3	199.0	14.6	205.8	31.1	174.7	6,937	25.2	13.8	11.2	60.9	57.5	64
339 (9)	Miscellaneous (non-electrical) machinery	1977	866.5	95.2	18.8	980.5	443.4	20.7	516.4	70.3	446.1	5,749	77.6	48.7	27.8	158.4	104.0	
		1978	951.3	114.0	58.7	1,124.0	514.2	27.0	582.8	78.5	504.3	6,787	74.3	46.3	27.0	171.7	117.9	
		1979	1,108.5	155.6	55.5	1,319.6	670.4	27.2	622.0	98.2	523.9	7,176	73.0	44.8	27.3	186.8	138.0	55
341	Industrial (including process) plant and steelwork	1977	2,583.9	87.6	43.9	2,715.3	993.7	299.3	1,422.3	227.6	1,194.7	6,940	172.2	100.9	69.7	405.0	322.6	
		1978	2,898.1	94.4	74.3	3,066.9	1,104.5	318.5	1,643.8	247.7	1,396.1	8,386	166.5	98.0	67.0	455.9	363.4	
		1979	3,077.2	73.8	70.1	3,221.1	1,185.5	281.8	1,753.9	251.1	1,502.8	9,560	157.2	91.1	64.7	467.3	391.0	64



**TABLE 1 Output, costs and employment, 1977-1979**  
All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)
			£ million	£ million	£ million	£ million	£ million
<b>ORDER VII Mechanical engineering (continued)</b>							
342	Ordnance and small arms	1977	283.1	13.1	32.7	328.9	190.3
		1978	383.4	15.1	22.8	421.3	259.8
		1979	539.6	15.5	-28.2	526.9	235.0
349 (1)	Ball, roller, plain and other bearings	1977	296.6	54.0	13.8	364.3	170.4
		1978	322.6	57.6	5.2	385.4	179.0
		1979	363.1	43.1	10.8	417.0	185.1
349 (2)(3)	Precision chains and other mechanical engineering	1977	1,170.3	58.2	28.9	1,257.3	492.1
		1978	1,311.8	79.8	21.6	1,413.2	552.6
		1979	1,470.5	75.8	21.4	1,567.6	559.2
<b>ORDER VIII Instrument engineering</b>							
		1977	1,478.2	141.6	52.8	1,672.5	725.5
		1978	1,763.7	188.4	68.7	2,020.7	903.3
		1979	2,011.1	200.1	44.3	2,255.6	994.3
351	Photographic and document copying equipment	1977	132.8	11.3	7.5	151.5	90.7
		1978	181.7	13.0	14.9	209.6	131.1
		1979	256.3	4.1	-2.2	258.2	140.3
352	Watches and clocks	1977	106.9	2.5	6.1	115.5	60.2
		1978	130.1	4.8	-5.3	129.5	55.8
		1979	105.4	4.6	0.8	110.9	43.5
353	Surgical instruments and appliances	1977	231.1	43.9	8.2	283.2	124.2
		1978	283.6	56.3	11.2	351.1	162.3
		1979	333.5	43.4	6.2	383.1	175.8
354	Scientific and industrial instruments and systems	1977	1,007.4	83.9	31.0	1,122.3	450.4
		1978	1,168.3	114.3	47.9	1,330.5	554.1
		1979	1,315.9	148.0	39.5	1,503.4	634.7
<b>ORDER IX Electrical engineering</b>							
		1977	8,498.3(n)	730.3(n)	196.3	9,424.5	4,896.1
		1978	9,454.0(n)	911.9(n)	268.5	10,634.5	5,297.5
		1979	10,780.0	962.6	277.4	12,020.0	5,996.1
361	Electrical machinery	1977	1,710.2	171.1	34.8	1,916.1	952.7
		1978	1,859.8	198.5	79.7	2,138.0	1,059.5
		1979	1,939.9	176.7	50.5	2,167.2	1,040.4
362	Insulated wires and cables	1977	858.0(m)	(m)	7.1	865.2	602.1
		1978	737.7	54.6	17.2	809.5	492.3
		1979	1,016.2	85.2	32.9	1,134.3	748.3
363	Telegraph and telephone apparatus and equipment	1977	603.6	41.8	3.3	648.6	252.1
		1978	704.3	49.6	8.7	762.6	298.8
		1979	747.2	22.7	14.3	784.1	275.0
364	Radio and electronic components	1977	995.1	198.2	22.5	1,215.8	583.0
		1978	1,139.6	197.0	19.9	1,356.5	630.9
		1979	1,220.4	121.8	26.1	1,368.3	587.5
365 (1)	Gramophone records and tape recordings	1977	165.7(m)	(m)	1.1	166.7	56.3
		1978	167.9(m)	(m)	1.4	169.3	49.2
		1979	152.0	8.8	0.5	161.4	47.0
365 (2)	Broadcast receiving and sound reproducing equipment	1977	531.3	22.6	26.2	580.0	395.2
		1978	573.1	44.8	-8.5	609.4	443.7
		1979	623.1	75.1	21.4	728.6	526.9

Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
			Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%
6.1(s)	132.5	6.9	125.6	6,271	20.0	14.6	5.3	50.1	21.9	
-3.7	165.2	9.4	155.8	6,869	22.7	15.1	7.5	55.9	35.2	
57.5	234.4	11.2	223.2	10,283	21.7	13.9	7.8	58.4	42.3	90
3.2	190.7	18.6	172.1	5,311	32.4	23.8	8.6	77.4	33.4	
6.3	200.0	21.2	178.8	5,608	31.9	23.3	8.5	83.8	37.7	
7.4	224.5	24.4	200.1	6,130	32.6	24.1	8.5	99.5	43.5	79
36.5	728.7	74.0	654.7	5,101	128.3	92.9	30.3	291.1	112.4	
43.1	817.5	85.9	731.6	5,989	122.2	87.5	29.8	303.1	124.1	
48.8	959.6	122.5	837.1	6,855	122.1	88.0	29.4	381.5	149.4	47
12.4	934.7	120.0	814.7	5,209	156.4	93.6	60.6	263.3	229.0	
23.6	1,093.8	138.8	954.8	6,124	155.9	92.2	61.7	294.2	269.4	
38.6	1,222.6	165.1	1,057.5	6,912	153.0	90.6	60.3	324.9	309.2	53
9.2	51.7	11.2	40.5	4,368	9.3	5.4	3.8	19.4	17.0	
3.0	75.5	10.4	65.0	6,853	9.5	5.3	4.1	20.5	20.8	
21.5	96.4	11.1	85.3	8,766	9.7	5.8	3.9	25.3	25.0	50
1.0	54.4	8.6	45.7	3,855	11.9	8.5	3.3	23.2	12.1	
1.4	72.4	9.0	63.4	5,210	12.2	8.9	3.2	26.5	13.6	
0.9	66.5	6.6	59.9	5,254	11.4	8.6	2.7	28.3	13.9	81
-1.3	160.2	19.0	141.3	4,604	30.7	21.2	8.6	55.4	29.1	
-2.6	191.3	22.2	169.1	5,646	29.9	21.0	8.2	64.6	33.3	
-2.2	209.4	28.2	181.3	6,051	30.0	19.9	9.3	68.1	44.0	39
3.5	668.4	81.2	587.2	5,620	104.5	58.5	44.9	165.3	170.8	
21.8	754.6	97.2	657.3	6,303	104.3	57.0	46.2	182.6	201.7	
18.4	850.3	119.2	731.0	7,173	101.9	56.3	44.4	203.2	226.3	55
136.6	4,391.6	491.5	3,900.1	5,550	702.7	454.1	245.2	1,290.4	950.7	
186.3	5,150.9	623.2	4,527.4	6,609	685.8	440.4	241.7	1,439.7	1,079.6	
250.4	5,773.5	720.3	5,052.9	7,466	676.8	429.8	242.0	1,641.1	1,268.1	56
27.6	935.8	79.3	856.5	6,078	140.9	88.3	51.9	272.2	195.8	
30.7	1,047.8	98.0	949.8	6,804	139.6	86.6	52.3	307.0	224.9	
37.5	1,089.2	123.1	966.1	6,725	143.7	87.9	53.2	349.8	274.0	52
22.1	241.0	32.6	208.3	4,924	42.3	29.1	13.1	100.3	52.4	
16.4	300.8	33.5	267.3	6,962	38.4	27.0	11.4	106.6	53.4	
32.7	353.4	44.4	309.0	7,999	38.6	26.4	12.2	131.2	68.0	73
1.1	395.3	37.6	357.7	5,029	71.1	45.3	25.8	134.5	100.9	
16.9	447.0	38.4	408.6	6,044	67.6	41.7	25.8	146.8	111.8	
-5.6	514.8	39.2	475.6	7,172	66.3	41.3	25.0	155.9	128.3	52
18.8	613.9	62.5	551.5	4,936	111.7	77.6	33.4	182.3	125.0	
17.4	708.2	79.0	629.2	5,724	109.9	76.2	33.0	208.4	147.8	
12.0	768.8	96.9	671.9	6,256	107.4	73.2	33.2	232.8	165.3	47
15.9	94.5	16.5	78.1	10,878	7.2	5.2	1.9	14.9	6.2	
1.8	118.3	51.8	66.5	9,316	7.1	5.1	2.0	18.2	7.5	
0.8	113.6	48.0	65.6	10,207	6.4	4.7	1.7	18.9	7.8	39
1.7	183.1	35.2	147.9	4,093	36.1	25.0	11.0	61.4	38.8	
13.9	151.8	36.7	115.0	3,620	31.8	22.3	9.3	64.9	42.7	
3.6	198.1	40.1	158.0	5,262	30.0	21.0	8.8	70.3	44.7	75



**TABLE 1 Output, costs and employment, 1977-1979**  
All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchant goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)
			£ million	£ million	£ million	£ million	£ million
<b>ORDER IX Electrical engineering (continued)</b>							
366	Electronic computers	1977	680.9	54.9	-4.9	730.9	384.2
		1978	830.6	51.4	24.3	906.3	464.5
		1979	1,082.8	108.5	28.1	1,219.4	568.4
367	Radio, radar and electronic capital goods	1977	1,147.9	85.1	45.0	1,278.0	564.1
		1978	1,350.6	120.5	92.6	1,563.8	638.9
		1979	1,605.5	146.7	64.0	1,816.1	803.3
368	Electrical appliances primarily for domestic use	1977	730.6	68.8	32.0	831.3	513.3
		1978	855.3	80.2	-0.7	934.8	555.9
		1979	948.1	89.9	15.4	1,053.5	623.5
369 (1)	Electrical equipment for motor vehicles, cycles and aircraft	1977	337.9	29.3	14.9	382.1	182.4
		1978	394.4	51.6	13.1	459.1	190.9
		1979	478.7	42.5	6.0	527.1	204.8
369 (2)(3)	Primary and secondary batteries	1977	280.4	27.2	7.2	314.8	160.5
		1978	312.5	38.5	13.8	364.7	186.6
		1979	350.8	48.4	8.5	407.7	241.1
369 (4)(5)	Electric lamps, electric light fittings, wiring accessories, etc.	1977	456.7	31.3	7.1	495.0	250.2
		1978	528.2	25.2	7.0	560.5	286.3
		1979	606.3	36.3	9.7	652.3	329.9
ORDER X 370	Ship building and marine engineering	1977	1,469.3	28.2	221.8	1,719.2	747.8
		1978	1,668.3	31.4	98.8	1,798.6	818.7
		1979	1,730.1	30.4	257.5	2,018.0	802.0
ORDER XI 380	Vehicles	1977	10,577.8(n)	1,204.8(n)	473.4	12,256.1	6,813.1
		1978	11,740.5	1,514.1	378.7	13,633.3	7,449.7
		1979	13,339.3	1,959.4	672.1	15,970.7	8,776.9
380	Wheeled tractor manufacturing	1977	970.3(m)	(m)	3.5	973.8	641.6
		1978	874.1	33.1	9.0	916.1	552.6
		1979	783.3	42.9	7.9	834.1	542.0
381 (1)	Motor vehicle manufacturing	1977	6,488.8	1,123.5	419.5	8,031.8	4,648.8
		1978	7,446.0	1,402.9	106.2	8,955.2	5,169.5
		1979	8,512.2	1,813.3	232.7	10,558.1	5,993.2
381 (2)	Trailers, caravans and freight containers	1977	389.2	13.3	14.3	416.8	279.9
		1978	428.5	14.6	7.4	450.5	304.5
		1979	496.8	22.5	5.4	524.7	365.1
382	Motor cycle, tricycle and pedal cycle manufacturing	1977	114.8	5.1	4.0	123.9	67.0
		1978	153.6	6.5	4.7	164.8	79.8
		1979	138.9	5.7	-1.6	142.9	67.8
383	Aerospace equipment manufacturing and repairing	1977	2,295.9	44.4	3.9	2,344.2	999.2
		1978	2,405.7	40.7	224.2	2,670.6	1,127.2
		1979	2,829.3	55.3	429.9	3,314.5	1,534.9
384, 385	Locomotives, railway track equipment, railway carriages, wagons and trams	1977	318.8	18.5	28.2	365.6	176.6
		1978	432.6	16.3	27.2	476.1	216.1
		1979	578.8	19.7	-2.2	596.4	273.9

Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
			Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%
9.3	337.4	28.9	308.5	11,656	26.5	11.2	15.2	39.9	73.4	
9.8	432.0	33.0	398.9	16,733	23.8	10.6	13.3	39.7	80.6	77
26.1	624.8	40.5	584.3	22,713	25.7	10.7	15.0	47.7	98.4	
21.4	692.6	83.7	608.9	5,948	102.4	48.7	53.2	150.7	209.5	
55.5	869.4	107.9	761.5	7,342	103.7	48.6	54.7	174.1	241.3	46
109.2	903.6	116.8	786.7	7,836	100.4	45.7	54.3	197.5	286.2	
11.2	306.7	54.4	252.3	4,221	59.8	43.0	16.6	120.2	60.4	
11.9	367.1	72.9	294.2	4,978	59.1	42.2	16.8	131.4	69.6	49
12.7	417.3	78.6	338.6	6,532	51.8	39.2	12.5	149.0	57.2	
3.5	196.1	18.6	177.5	4,528	39.2	30.6	8.5	81.2	34.1	
7.5	260.7	24.0	236.7	5,737	41.3	31.7	9.4	89.5	42.5	78
8.6	313.7	31.8	281.9	6,387	44.1	33.2	10.9	115.9	60.3	
2.8	151.6	14.5	137.1	7,006	19.6	14.3	5.2	45.0	19.8	
2.3	175.9	19.3	156.5	7,971	19.6	14.3	5.3	52.0	23.2	55
11.4	155.2	24.6	130.5	7,074	18.5	12.8	5.6	57.1	29.6	
1.2	243.6	27.7	215.8	4,702	45.9	35.8	9.4	87.8	34.4	
2.2	271.9	28.7	243.2	5,639	43.1	34.1	8.4	101.1	34.3	69
1.4	321.0	36.3	284.7	6,484	43.9	33.7	9.6	115.0	48.3	
97.8	873.6	65.9	807.7	4,665	173.1	133.2	39.2	460.0	165.9	
125.9	854.0	75.0	779.0	4,600	169.4	130.6	38.0	545.8	191.9	75
114.9	1,101.1	80.9	1,020.2	6,394	159.5	122.0	36.8	549.9	212.0	
275.9	5,167.0	515.2	4,652.2	5,976	778.5	555.7	221.2	1,935.6	947.4	
406.6	5,777.1	612.3	5,164.9	6,636	778.3	550.7	225.7	2,154.0	1,113.0	84
384.4	6,809.5	775.3	6,034.2	7,972	756.9	530.2	224.9	2,335.3	1,330.6	
16.0	316.1	27.0	289.2	8,346	34.6	26.1	8.6	96.8	40.6	
26.8	336.7	26.9	309.8	9,124	34.0	25.5	8.4	100.9	45.0	93
10.0	282.1	24.0	258.1	10,802	23.9	17.9	6.0	83.9	38.3	
87.2	3,295.9	326.2	2,969.8	6,260	474.4	370.8	102.2	1,306.8	462.6	
105.1	3,680.7	402.2	3,278.5	6,874	476.9	366.6	109.0	1,443.4	567.5	81
109.5	4,455.5	544.1	3,911.4	8,388	466.3	354.2	110.8	1,544.6	685.5	
-3.5	140.4	14.9	125.5	6,427	19.5	15.2	4.2	52.0	16.2	
3.9	142.1	19.2	122.8	6,376	19.3	14.9	4.2	58.0	18.7	63
0.9	158.8	23.5	135.3	7,014	19.3	14.8	4.4	67.1	23.5	
-4.1	61.0	6.6	54.5	4,218	12.9	9.8	3.1	23.2	11.1	
5.3	79.7	6.8	72.9	5,425	13.4	10.3	3.0	32.4	12.2	85
0.8	74.3	10.5	63.8	5,204	12.3	9.4	2.8	32.0	12.4	
180.6	1,164.4	129.2	1,035.3	5,306	195.1	99.4	95.5	344.5	385.6	
254.7	1,288.7	143.6	1,145.2	5,961	192.1	98.5	93.3	390.0	433.7	90
254.7	1,524.9	158.1	1,366.8	7,111	192.2	99.4	92.5	454.4	525.7	
-0.3	189.2	11.3	177.9	4,241	42.0	34.4	7.6	112.3	31.3	
10.8	249.2	13.6	235.7	5,527	42.6	34.9	7.8	129.3	35.9	97
8.5	313.9	15.1	298.8	6,969	42.9	34.5	8.4	153.3	45.2	



**TABLE 1 Output, costs and employment, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)**

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)
			£ million	£ million	£ million	£ million	£ million
<b>ORDER XII</b>	<b>Metal goods not elsewhere specified</b>	1977	6,618.9	329.7	162.6	7,111.5	3,843.4
		1978	7,502.9	393.2	82.6	7,978.6	4,312.7
		1979	8,298.8	505.8	145.3	8,949.9	4,841.3
390	Engineers' small tools and gauges	1977	497.5	33.8	20.1	551.4	190.1
		1978	588.8	44.5	17.9	651.2	226.6
		1979	656.5	47.3	14.1	717.9	243.9
391	Hand tools and implements	1977	152.2	16.3	6.2	174.7	75.3
		1978	176.3	19.7	2.0	197.9	83.9
		1979	201.8	24.1	4.5	230.4	94.5
392	Cutlery, spoons, forks and plated tableware, etc.	1977	116.3	27.7	3.1	147.2	68.3
		1978	131.7	25.5	5.9	163.1	70.7
		1979	154.5	29.8	2.0	186.2	82.2
393	Bolts, nuts, screws, rivets, etc.	1977	353.8	25.7	8.9	388.4	182.3
		1978	387.3	25.1	4.2	416.6	187.8
		1979	375.2	24.4	3.8	403.5	176.1
394	Wire and wire manufactures	1977	799.2	24.6	6.8	830.6	561.8
		1978	862.1	29.2	7.1	898.4	598.5
		1979	923.5	25.3	18.9	967.8	657.2
395	Cans and metal boxes	1977	575.6(m)	(m)	12.3	587.9	392.2
		1978	641.9	12.1	4.1	658.2	431.4
		1979	681.7	14.9	6.1	702.7	451.7
396	Jewellery and precious metals	1977	597.5	36.8	41.5	675.9	480.4
		1978	711.9	55.5	-10.7	756.7	594.4
		1979	825.2	104.5	36.4	966.0	750.2
399 (1)	Metal furniture	1977	206.9	13.6	3.1	223.6	122.1
		1978	264.9	19.7	3.9	288.4	155.2
		1979	291.8	19.3	3.2	314.2	159.7
399 (5)	Drop forgings, etc.	1977	375.6	2.7	8.6	387.0	212.4
		1978	379.2	3.2	4.1	386.5	208.3
		1979	417.8	4.9	5.6	428.4	245.6
399 (6)(7)	Metal hollow-ware	1977	251.3	3.2	3.0	257.5	141.6
		1978	276.2	6.4	1.8	284.4	158.6
		1979	286.4	3.1	2.8	292.3	163.2
399 (2)(3) (4)(8)(9)(10) (11)(12)	Miscellaneous metal manufacture	1977	2,693.0	145.3	49.0	2,887.3	1,416.9
		1978	3,082.6	152.3	42.3	3,277.2	1,597.3
		1979	3,484.4	208.2	47.9	3,740.5	1,817.0
<b>ORDER XIII</b>	<b>Textiles</b>	1977	6,131.3	245.7	104.5	6,481.7	3,766.4
		1978	6,453.9(n)	282.8(n)	60.4	6,797.2	3,870.5
		1979	7,029.0	326.7	138.5	7,494.3	4,262.0
411	Production of man-made fibres	1977	760.6	29.6	-2.7	787.5	495.0
		1978	787.2	29.3	-5.2	811.3	481.3
		1979	860.9	30.8	25.6	917.3	570.6
412	Spinning and doubling on the cotton and flax systems	1977	582.3	6.9	1.4	590.6	356.4
		1978	540.2	15.0	2.0	557.2	352.9
		1979	598.3	20.5	9.1	627.9	363.5

Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
			Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%
132.5	3,135.5	422.0	2,713.7	5,194	522.5	388.6	122.3	1,140.2	451.3	
146.7	3,518.9	475.1	3,043.5	6,027	505.0	373.7	120.1	1,270.8	515.1	
81.1	4,027.4	564.7	3,462.5	7,020	493.2	361.4	120.4	1,413.9	598.4	57
7.6	353.7	32.3	321.4	5,184	62.0	45.0	15.4	141.1	57.8	
18.0	406.7	40.5	366.2	6,052	60.5	44.2	14.9	165.9	66.0	
25.1	448.9	52.5	396.3	6,729	58.9	42.6	14.9	185.4	77.4	51
2.1	97.3	12.6	84.7	4,973	17.0	12.8	3.9	33.4	12.5	
2.5	111.5	13.7	97.8	5,801	16.9	12.4	4.1	35.5	16.4	
3.6	132.2	16.6	115.6	7,149	16.2	11.9	3.9	40.0	18.0	62
1.4	77.5	13.3	64.2	5,083	12.6	9.4	3.1	23.7	11.2	
5.8	86.5	14.2	72.3	5,693	12.7	9.6	2.9	27.7	13.2	
1.1	102.9	18.5	84.4	6,513	13.0	10.0	2.8	31.4	14.8	63
15.7	190.4	24.5	165.9	4,958	33.5	25.0	8.2	71.9	29.7	
17.6	211.2	32.5	178.7	5,602	31.9	23.6	8.1	75.5	33.2	
18.3	209.1	34.1	175.0	6,414	27.3	20.0	7.0	74.2	33.4	70
18.4	250.5	35.9	214.5	5,631	38.1	28.8	9.0	93.4	35.3	
11.6	288.2	42.9	245.2	6,626	37.0	27.4	9.3	101.3	40.4	
1.3	309.3	49.9	259.4	7,286	35.6	26.6	8.7	113.7	43.4	75
-1.3	197.0	23.3	173.7	5,683	30.6	24.6	5.9	77.2	25.8	
8.9	217.8	26.0	191.8	6,249	30.7	24.7	5.9	89.2	30.3	
-2.0	253.0	29.2	223.8	7,645	29.3	23.4	5.8	101.2	34.0	86
16.8	178.7	37.2	141.5	7,275	19.5	12.3	6.2	36.8	22.6	
-14.6	176.8	24.7	152.1	8,148	18.7	11.8	5.9	38.1	24.6	
-29.0	244.8	40.6	204.3	11,048	18.5	10.7	6.9	40.6	35.1	45
4.2	97.3	16.7	80.7	4,700	17.2	12.4	4.5	35.7	15.8	
4.1	129.1	23.7	105.3	5,820	18.1	12.5	5.3	40.8	22.8	
3.4	151.1	26.5	124.6	7,209	17.3	12.1	4.9	47.4	25.2	59
9.4	165.1	15.2	150.0	5,629	26.6	21.4	5.1	77.7	18.9	
14.9	163.3	19.3	144.0	5,738	25.1	20.1	4.9	84.5	20.7	
3.2	179.6	20.9	158.6	6,565	24.2	19.3	4.8	89.7	23.3	80
3.2	112.6	13.7	98.9	6,104	16.2	12.8	3.1	39.1	12.0	
-0.4	126.2	15.0	111.1	7,248	15.3	11.9	3.2	42.7	14.6	
2.9	126.2	19.6	106.6	7,321	14.6	11.4	2.9	45.8	15.2	68
55.0	1,415.4	197.3	1,218.2	4,888	249.2	184.1	57.9	510.2	209.7	
78.3	1,601.6	222.6	1,379.0	5,792	238.1	175.5	55.6	569.6	232.9	
53.2	1,870.3	256.3	1,613.9	6,772	238.2	173.4	57.8	644.5	278.6	47
252.5	2,462.7	310.6	2,152.1	4,278	503.1	407.2	92.2	1,034.0	331.1	
224.7	2,702.2	334.7	2,367.6	4,943	479.0	386.1	89.6	1,104.7	365.6	
277.4	2,954.8	390.4	2,564.3	5,610	457.1	366.0	88.1	1,223.9	413.7	72
28.7	263.8	66.7	197.0	5,203	37.9	29.8	8.1	113.2	46.1	
32.7	297.3	62.0	235.4	6,759	34.8	27.5	7.3	122.0	45.9	
28.7	318.0	63.3	254.7	7,810	32.6	25.8	6.8	137.0	51.9	83
21.0	213.2	19.0	194.2	3,904	49.7	42.8	6.8	102.9	23.0	
6.4	197.9	18.9	179.1	3,947	45.4	38.9	6.3	104.3	25.8	
17.5	246.8	24.0	222.9	5,218	42.7	36.3	6.3	114.4	29.6	81



**TABLE 1 Output, costs and employment, 1977-1979**  
All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)
			£ million	£ million	£ million	£ million	£ million
<b>ORDER XIII Textiles (continued)</b>							
413	Weaving of cotton, linen and man-made fibres	1977	586.7	24.3	15.3	626.4	409.8
		1978	627.5	21.8	-3.3	646.0	405.1
		1979	681.0	30.8	20.5	732.3	456.4
414	Woollen and worsted	1977	1,206.5	28.5	27.4	1,262.4	768.5
		1978	1,233.9	54.2	17.7	1,305.8	787.2
		1979	1,314.9	22.6	8.5	1,346.0	806.6
415	Jute	1977	92.2	7.0	1.3	100.5	59.3
		1978	104.0	7.0	0.9	112.0	65.9
		1979	98.0	10.8	2.3	111.0	64.9
416	Rope, twine and net	1977	64.6	9.5	1.0	75.1	48.8
		1978	64.1	7.9	1.5	73.5	51.0
		1979	69.8	13.5	2.4	85.7	54.5
417 (1)	Hosiery and other knitted goods	1977	946.7	17.9	27.6	992.2	505.8
		1978	1,029.4	20.5	20.4	1,070.3	540.1
		1979	1,139.5	39.0	26.6	1,205.1	604.1
417 (2)	Warp knitting	1977	167.6	8.2	-1.0	174.8	107.7
		1978	181.8(m)	(m)	1.8	183.6	109.0
		1979	194.4	4.8	2.1	201.3	121.2
418	Lace	1977	39.4	1.5	0.9	41.8	21.0
		1978	47.6	2.2	0.9	50.7	23.6
		1979	47.7	2.7	0.5	50.9	23.3
419	Carpets	1977	580.7	27.5	11.7	619.9	377.0
		1978	606.0	27.5	9.2	642.8	387.7
		1979	636.7	35.5	9.8	682.0	418.8
421	Narrow fabrics	1977	118.3	4.6	2.7	125.6	62.8
		1978	138.2	7.8	2.3	148.3	74.2
		1979	159.5	6.9	3.0	169.4	86.0
422 (1)	Household textiles and handkerchiefs	1977	223.0	11.8	6.2	241.1	146.1
		1978	232.3	13.4	5.3	251.0	143.5
		1979	274.1	24.3	16.6	315.1	187.5
422 (2)	Canvas goods and sacks and other made-up textiles	1977	102.0	13.7	3.6	119.3	79.9
		1978	100.2	16.7	-	116.9	78.3
		1979	128.4	23.8	2.5	154.8	103.7
423	Textile finishing	1977	368.7	10.7	3.2	382.6	163.9
		1978	415.3	11.3	1.5	428.1	181.0
		1979	449.7	5.4	3.8	459.0	189.6
429 (1)	Asbestos	1977	197.0	41.0	4.5	242.5	112.8
		1978	236.6	41.7	3.4	281.6	128.7
		1979	253.4	43.5	3.8	300.6	141.7
429 (2)	Miscellaneous textile industries	1977	95.0	3.0	1.4	99.4	51.6
		1978	109.6	6.5	2.0	118.1	61.0
		1979	122.7	11.8	1.4	135.9	69.6

Cost of industrial services, increase during year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979										
			Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)											
£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%										
27.0	189.6	21.3	168.4	3,970	42.4	36.0	6.2	89.0	21.5	67										
											29.2	211.7	26.1	185.6	4,503	41.2	34.6	6.4	97.6	25.4
											34.2	241.7	29.1	212.5	5,280	40.2	34.1	5.9	114.5	27.1
65.9	428.0	38.5	389.4	4,587	84.9	71.7	12.5	178.0	43.6	72										
											54.5	464.1	43.8	420.3	5,179	81.2	67.9	12.6	187.0	48.7
											80.9	458.5	49.5	409.0	5,422	75.4	62.3	12.5	197.2	56.6
0.4	40.8	3.7	37.2	4,586	8.1	6.8	1.3	16.7	4.8	83										
											3.0	43.1	4.2	38.9	4,847	8.0	6.7	1.3	18.6	5.4
											0.4	45.6	4.4	41.2	5,618	7.3	6.2	1.1	19.8	5.4
0.8	25.5	5.4	20.1	3,637	5.5	4.6	0.9	10.4	2.6	66										
											0.7	21.8	5.5	16.3	3,101	5.3	4.3	0.9	10.8	3.0
											0.4	30.9	6.3	24.6	4,633	5.3	4.3	0.9	12.1	3.5
36.0	450.4	39.8	410.6	3,644	112.7	91.8	20.1	187.9	60.8	66										
											35.2	495.0	48.5	446.5	4,078	109.5	88.9	19.9	207.5	70.7
											47.8	553.3	59.7	493.5	4,707	104.8	84.0	20.3	229.2	81.0
10.2	56.9	11.1	45.8	3,799	12.1	9.4	2.6	27.2	9.2	81										
											9.2	65.5	11.9	53.5	5,734	9.3	7.3	2.0	25.4	8.2
											12.0	68.1	11.6	56.5	6,782	8.3	6.4	1.9	26.5	8.9
2.7	18.0	1.8	16.2	3,775	4.3	3.3	0.9	6.9	2.7	67										
											3.7	23.4	2.0	21.4	4,832	4.4	3.3	1.0	7.6	3.9
											4.4	23.1	2.3	20.8	5,159	4.0	3.0	0.9	8.3	3.5
19.9	223.0	36.3	186.7	5,128	36.4	27.8	8.5	90.4	33.7	86										
											9.3	245.9	38.3	207.6	6,133	33.8	25.8	7.9	91.0	34.9
											20.5	242.7	45.5	197.2	6,198	31.8	24.3	7.4	99.1	36.5
4.2	58.5	7.2	51.3	3,988	12.9	10.2	2.5	22.0	8.1	56										
											6.7	67.4	8.9	58.5	4,543	12.9	10.2	2.6	25.1	9.4
											6.8	76.6	8.5	68.1	5,314	12.8	10.0	2.7	27.7	11.4
10.5	84.5	12.0	72.5	3,865	18.7	15.2	3.1	28.7	9.9	61										
											8.4	99.0	11.5	87.5	4,804	18.2	15.0	2.9	31.4	10.6
											6.0	121.6	19.6	102.0	5,181	19.7	16.1	3.2	41.0	13.7
-1.3	40.8	7.6	33.2	3,353	9.9	7.4	2.1	14.0	6.8	45										
											-0.1	38.7	6.8	31.9	3,603	8.9	6.5	1.9	14.5	6.7
											0.5	50.6	11.2	39.4	4,388	9.0	6.6	2.0	17.7	8.3
14.7	204.0	20.0	184.0	4,331	42.5	33.4	8.7	90.3	29.0	68										
											13.8	233.3	22.1	211.2	5,211	40.5	31.8	8.4	96.6	32.9
											12.7	256.6	25.2	231.5	5,947	38.9	30.5	8.1	107.8	37.6
9.2	120.5	11.0	109.5	5,796	18.9	12.4	6.4	41.8	23.2	80										
											8.8	144.1	14.3	129.8	6,649	19.5	12.9	6.6	48.7	27.0
											2.4	156.5	17.5	139.0	7,596	18.3	11.8	6.5	53.3	30.1
2.6	45.2	9.2	36.0	5,846	6.2	4.6	1.5	14.6	6.1	73										
											3.2	54.0	9.9	44.1	7,191	6.1	4.5	1.6	16.6	7.1
											2.2	64.2	12.7	51.5	8,557	6.0	4.3	1.6	18.3	8.6



**TABLE 1 Output, costs and employment, 1977-1979**  
All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)
			£ million	£ million	£ million	£ million	£ million
<b>ORDER XIV</b>	<b>Leather, leather goods and fur</b>	1977	562.3	31.3	13.5	607.1	410.1
		1978	656.2	43.8	10.8	710.9	480.1
		1979	666.5	70.2	20.6	757.2	496.3
431	Leather, (tanning and dressing) and fellmongery	1977	393.9	10.8	8.9	413.6	304.2
		1978	440.8	15.1	6.0	462.0	344.7
		1979	447.3	21.1	10.2	478.6	347.9
432	Leather goods	1977	121.7	17.7	2.8	142.2	78.6
		1978	143.4	22.1	1.3	166.8	90.2
		1979	148.4	32.9	4.9	186.1	102.7
433	Fur	1977	46.7	2.8	1.8	51.3	27.3
		1978	72.0	6.6	3.5	82.1	45.2
		1979	70.8	16.2	5.5	92.5	45.7
<b>ORDER XV</b>	<b>Clothing and footwear</b>	1977	2,707.9	211.5	71.5	2,991.0	1,531.9
		1978	3,123.0	214.8	43.3	3,381.0	1,693.5
		1979	3,743.3	268.0	103.6	4,115.0	1,982.0
441	Weatherproof outerwear	1977	131.1	7.1	3.7	142.0	75.3
		1978	154.8	12.2	5.0	172.0	86.5
		1979	154.7	17.3	4.0	176.0	95.6
442	Men's and boys' tailored outerwear	1977	366.0	33.7	7.7	407.4	216.6
		1978	411.6	27.9	7.2	446.7	226.3
		1979	445.7	36.0	9.4	491.1	245.6
443	Women's and girls' tailored outerwear	1977	327.7	8.6	8.3	344.6	166.9
		1978	428.6	12.1	6.4	447.0	217.5
		1979	548.0	11.3	17.1	576.3	275.0
444	Overalls and men's shirts underwear, etc.	1977	304.4	20.3	13.6	338.3	187.7
		1978	382.7	24.5	2.7	409.9	242.3
		1979	466.3	31.1	19.7	517.1	257.9
445	Dresses, lingerie, infants wear, etc.	1977	680.0	32.4	13.9	726.3	355.9
		1978	733.4	26.1	11.2	770.7	371.3
		1979	964.3	25.5	23.0	1,012.8	441.6
446	Hats, caps and millinery	1977	37.7	2.4	—	40.1	19.9
		1978	39.2	3.9	0.7	43.8	20.9
		1979	44.4	3.2	0.6	48.2	23.3
449 (1)(3) (4)	Corsets and miscellaneous dress industries	1977	189.5	15.4	7.9	212.7	100.2
		1978	217.1	20.5	1.5	239.1	112.5
		1979	267.4	37.9	9.4	314.8	141.1
449 (2)	Gloves	1977	36.8	13.5	1.9	52.2	33.3
		1978	41.5	10.9	1.5	53.9	29.0
		1979	48.4	11.2	2.8	62.4	34.1
450	Footwear	1977	634.7	78.1	14.5	727.4	376.1
		1978	714.1	76.7	7.1	797.9	387.2
		1979	804.1	94.5	17.6	916.3	467.8

Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
			Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%
-0.3	197.4	26.8	170.6	4,202	40.6	32.5	6.8	75.2	25.7	
1.5	229.3	32.1	197.1	5,067	38.9	31.1	6.5	82.3	27.7	
1.9	259.0	39.7	219.4	5,866	37.4	29.4	6.7	88.6	33.1	49
0.6	108.9	13.2	95.7	5,293	18.1	14.5	3.4	40.7	13.9	
-0.1	117.3	14.8	102.5	6,105	16.8	13.4	3.3	42.0	14.6	
1.9	128.8	17.0	111.8	7,019	15.9	12.6	3.2	43.9	16.6	62
-0.6	64.2	10.8	53.4	3,072	17.4	14.0	2.7	24.3	9.3	
0.2	76.5	13.3	63.1	3,713	17.0	13.7	2.5	28.6	10.2	
-0.9	84.3	18.7	65.6	3,970	16.5	13.1	2.7	30.8	12.9	41
-0.3	24.3	2.8	21.5	4,240	5.1	4.0	0.7	10.2	2.5	
1.4	35.5	4.0	31.5	6,131	5.1	4.0	0.7	11.7	2.9	
0.9	45.9	4.0	42.0	8,473	5.0	3.7	0.8	13.9	3.6	37
69.5	1,389.9	151.6	1,238.1	3,126	396.1	333.3	56.0	616.8	178.4	
62.4	1,625.3	191.7	1,433.7	3,721	385.3	323.3	55.7	676.3	200.7	
123.0	2,009.6	235.3	1,774.2	4,726	375.4	310.2	58.8	766.3	246.4	55
0.4	66.3	6.8	59.5	2,869	20.7	18.0	2.5	30.3	7.3	
0.8	84.8	7.4	77.4	4,028	19.2	16.4	2.6	33.0	8.4	
2.4	77.9	9.2	68.7	3,573	19.2	16.3	2.7	38.5	10.7	56
5.2	185.5	22.0	163.5	2,297	71.2	61.0	9.1	108.1	28.2	
9.8	210.6	27.2	183.4	2,741	66.9	57.3	8.6	114.9	29.7	
11.3	234.3	32.0	202.3	3,238	62.5	53.3	8.1	129.9	31.7	56
15.7	162.3	17.4	144.9	3,153	46.0	38.5	6.3	73.2	19.1	
18.5	211.1	22.0	189.1	4,365	43.3	35.8	6.4	75.5	23.0	
60.3	241.0	25.1	215.9	5,117	42.2	33.7	7.4	85.5	29.9	42
2.7	147.9	15.4	132.5	2,785	47.6	40.6	6.5	68.1	20.2	
3.7	163.9	18.7	145.2	3,053	47.6	40.1	7.1	77.1	25.0	
0.7	258.5	27.1	231.5	5,011	46.2	38.9	7.0	87.5	29.0	56
39.8	330.6	31.5	299.0	3,090	96.8	81.4	12.8	133.4	39.8	
26.8	372.6	47.3	325.3	3,319	98.0	83.1	12.4	153.6	41.2	
52.2	518.9	58.1	460.7	4,702	98.0	80.5	15.0	178.9	58.9	41
-0.2	20.4	2.5	17.9	3,190	5.6	4.6	0.8	7.9	2.8	
0.1	22.8	3.5	19.3	3,685	5.2	4.2	0.8	8.4	2.9	
0.1	24.7	4.3	20.4	4,188	4.9	3.9	0.8	9.4	3.4	60
0.4	112.2	15.5	96.6	3,459	27.9	22.5	5.0	38.7	15.8	
-1.2	127.8	18.4	109.5	4,186	26.1	21.1	4.6	41.5	17.2	
2.5	171.1	24.5	146.6	5,740	25.5	20.1	5.0	46.0	22.7	54
0.4	18.5	2.8	15.7	3,032	5.2	4.3	0.8	7.1	2.6	
0.3	24.6	4.5	20.1	3,883	5.2	4.3	0.8	8.2	2.9	
-0.1	28.4	4.9	23.4	4,484	5.2	4.3	0.8	10.5	3.5	77
5.1	346.2	37.7	308.5	4,109	75.1	62.4	12.2	150.0	42.6	
3.6	407.1	42.7	364.4	4,939	73.8	61.0	12.4	164.1	50.4	
-6.4	454.8	50.1	404.7	5,642	71.7	59.2	12.0	180.1	56.6	77



**TABLE 1 Output, costs and employment, 1977-1979**  
All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)
			£ million	£ million	£ million	£ million	£ million
<b>ORDER XVI</b>	<b>Bricks, pottery, glass, cement, etc.</b>	1977	3,678.8	160.9	74.5	3,914.4	1,750.8
		1978	4,147.9(n)	199.4(n)	45.5	4,393.0	1,914.8
		1979	4,746.6	343.6	94.2	5,184.3	2,308.8
461 (1)	Refractory goods	1977	231.8	7.7	8.6	248.1	130.5
		1978	241.5	9.4	-0.7	250.2	128.3
		1979	267.0	11.3	6.7	284.9	147.0
461 (2)	Building bricks and non-refractory goods	1977	266.9	6.7	12.7	286.4	90.6
		1978	317.9	21.4	-0.8	338.6	120.7
		1979	377.4	59.2	7.7	444.3	171.2
462	Pottery	1977	411.9	20.2	12.7	444.8	135.4
		1978	484.6	26.5	19.4	530.6	166.2
		1979	530.6	32.0	13.8	576.4	195.9
463	Glass	1977	818.4	42.2	15.3	876.0	360.9
		1978	924.5	55.6	14.9	995.0	395.0
		1979	1,024.1	105.6	23.3	1,153.0	484.9
464	Cement	1977	353.8	11.9	3.0	368.7	167.0
		1978	423.6(m)	(m)	2.0	425.6	192.4
		1979	516.6	26.6	10.0	553.2	238.6
469 (1)	Abrasives	1977	125.8	15.3	1.9	143.0	72.8
		1978	143.0	13.9	1.1	158.0	75.4
		1979	169.8	17.8	2.8	190.4	90.7
469 (2)	Miscellaneous building materials and mineral products	1977	1,470.2	56.9	20.3	1,547.4	793.6
		1978	1,612.8	72.6	9.6	1,695.0	836.8
		1979	1,861.1	91.1	29.9	1,982.1	980.5
<b>ORDER XVII</b>	<b>Timber, furniture, etc.</b>	1977	3,298.2	573.5	36.5	3,908.2	2,238.1
		1978	3,666.6	595.2	55.3	4,317.1	2,397.8
		1979	4,147.1	643.0	67.6	4,857.4	2,703.1
471	Timber	1977	1,255.0	487.3	10.8	1,753.0	1,105.2
		1978	1,284.8	468.4	24.6	1,777.8	1,099.7
		1979	1,447.0	509.6	33.2	1,989.7	1,253.6
472	Furniture and upholstery	1977	1,039.6	34.9	15.7	1,090.3	560.2
		1978	1,262.6	51.4	16.0	1,329.9	679.9
		1979	1,409.3	51.3	30.8	1,491.4	749.2
473	Bedding, etc.	1977	248.4	16.8	1.1	266.3	163.6
		1978	284.3	30.8	3.0	318.2	184.5
		1979	322.1	36.6	0.4	359.1	212.9
474	Shop and office fitting	1977	337.5	8.4	4.4	350.3	143.5
		1978	386.0	13.6	9.4	409.0	162.6
		1979	453.8	10.4	0.7	464.8	174.9
475	Wooden containers and baskets	1977	158.2	5.4	0.7	164.3	90.1
		1978	161.3	9.4	0.2	170.9	93.5
		1979	189.3	7.5	1.1	197.8	106.4
479	Miscellaneous wood and cork manufactures	1977	259.5	20.7	3.8	284.0	175.5
		1978	287.6	21.6	2.1	311.3	177.6
		1979	325.6	27.6	1.4	354.6	206.1

Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
			Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%
56.1	2,107.4	350.7	1,756.9	6,731	261.0	196.9	61.1	634.8	242.0	
97.3	2,380.8	418.8	1,961.9	7,631	257.1	194.5	59.6	722.9	274.3	
61.3	2,814.2	553.9	2,260.5	9,111	248.1	186.5	58.8	832.7	313.2	64
-5.3	122.9	16.8	106.1	7,886	13.5	9.8	3.6	33.6	13.7	
6.7	115.2	20.0	95.2	7,348	13.0	9.2	3.6	36.5	16.4	
5.2	132.6	24.5	108.2	8,772	12.3	9.0	3.3	39.9	17.5	62
4.9	190.9	34.0	157.0	6,162	25.5	21.3	4.0	74.2	16.0	
7.0	210.9	40.0	170.9	7,126	24.0	19.9	3.9	78.1	17.3	
3.8	269.2	52.7	216.6	9,353	23.2	18.9	4.1	91.2	19.7	50
7.5	301.8	30.6	271.2	4,443	61.0	50.8	9.9	133.4	34.5	
8.1	356.2	35.5	320.7	5,200	61.7	51.2	10.1	153.4	39.4	
2.3	378.2	47.8	330.5	5,617	58.8	48.5	9.9	164.9	44.5	63
10.0	505.1	56.9	448.2	7,032	63.7	47.3	16.0	160.4	70.5	
15.2	584.8	65.5	519.3	8,249	62.9	46.6	15.9	189.3	82.6	
10.6	657.5	92.2	565.2	9,452	59.8	44.5	14.8	224.2	88.3	74
0.7	201.0	60.0	141.0	10,481	13.5	9.9	3.5	36.9	16.1	
6.2	227.0	73.2	153.7	11,122	13.8	10.2	3.6	40.9	20.0	
-8.5	323.1	78.8	244.3	17,427	14.0	10.2	3.8	51.1	26.8	94
3.2	67.0	8.6	58.4	6,905	8.5	5.1	3.3	16.7	13.7	
1.4	81.2	9.4	71.8	8,557	8.4	5.1	3.2	19.0	15.2	
3.7	96.1	11.6	84.5	9,402	9.0	5.5	3.4	24.1	18.7	74
35.1	718.7	143.8	575.0	7,639	75.3	52.7	20.8	179.6	77.5	
52.7	805.5	175.2	630.3	8,604	73.3	52.3	19.3	205.7	83.4	
44.2	957.5	246.3	711.2	10,014	71.0	49.9	19.5	237.3	97.7	53
59.9	1,610.3	267.7	1,342.5	5,089	263.8	194.6	60.4	578.8	221.8	
69.4	1,849.9	296.4	1,553.4	6,106	254.4	189.0	56.6	642.6	235.7	
28.0	2,126.4	381.2	1,745.1	7,051	247.5	185.1	53.8	727.4	269.0	43
24.7	623.1	95.6	527.5	5,971	88.3	62.3	23.2	181.0	85.3	
27.2	650.9	94.8	556.1	6,877	80.9	58.1	20.0	191.5	82.2	
-9.5	745.6	137.1	608.5	7,917	76.9	54.8	19.4	210.1	95.7	43
3.3	526.8	90.4	436.4	4,856	89.9	69.1	18.3	211.1	68.2	
0.4	649.6	110.9	538.6	5,988	90.0	69.5	18.1	249.7	75.9	
0.7	741.5	133.6	607.9	6,840	88.9	70.1	16.4	292.6	83.7	46
1.5	101.2	23.1	78.0	3,837	20.3	15.1	4.7	38.2	15.3	
-0.6	134.3	26.3	108.0	5,247	20.6	15.4	4.7	43.9	16.8	
-2.9	149.1	27.0	122.1	5,710	21.4	16.3	4.6	48.2	20.8	44
30.2	176.6	24.0	152.6	5,153	29.6	20.9	7.6	77.1	28.4	
35.8	210.6	27.6	183.0	6,384	28.7	20.2	7.3	81.5	32.8	
45.7	244.3	33.5	210.8	7,620	27.7	19.2	7.4	91.8	38.2	35
1.7	72.6	13.9	58.7	4,008	14.6	11.2	2.8	29.8	10.9	
3.3	74.1	13.0	61.1	4,466	13.7	10.4	2.7	30.6	12.2	
-1.8	93.2	15.0	78.2	5,867	13.3	10.1	2.6	36.3	14.1	47
-1.5	110.0	20.7	89.3	4,223	21.1	16.0	3.8	41.6	13.7	
3.3	130.4	23.8	106.6	5,198	20.5	15.4	3.8	45.4	15.8	
-4.2	152.7	35.0	117.6	6,092	19.3	14.6	3.4	48.4	16.5	37



**TABLE 1 Output, costs and employment, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)**

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)	Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979	
											Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)		
			£ million	£ million	£ million	£ million	£ million	£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%	
<b>ORDER XVIII Paper, printing and publishing</b>			1977	7,907.4	265.8	95.1	8,268.2	3,691.3	484.3	4,093.0	632.6	3,460.4	6,334	546.3	355.0	181.3	1,234.4	692.4	
			1978	8,793.9	323.9	70.5	9,188.3	3,937.0	480.0	4,771.4	852.6	3,918.7	7,314	535.8	344.0	181.4	1,397.7	800.7	
			1979	10,263.6	382.9	131.8	10,778.5	4,661.9	554.4	5,562.5	1,101.5	4,460.9	8,417	530.0	335.5	184.2	1,615.8	967.7	67
481	Paper and board	1977	1,317.3	23.0	14.3	1,354.6	874.0	35.2	445.5	66.7	378.7	6,778	55.9	43.3	12.5	155.7	50.1		
		1978	1,372.6	23.1	3.3	1,399.0	881.0	19.4	498.5	79.8	418.8	7,590	55.2	42.8	12.3	177.8	58.4		
		1979	1,584.2	29.4	14.5	1,628.2	1,041.2	14.6	572.4	98.5	473.9	8,827	53.7	41.3	12.3	206.3	69.4	89	
482 (1)	Cardboard boxes, cartons and fibre-board packing cases	1977	1,039.0	25.4	8.6	1,072.9	612.5	18.9	441.6	58.6	383.0	5,906	64.9	49.9	14.5	157.0	55.9		
		1978	1,112.6	41.6	5.5	1,159.7	641.3	19.7	498.8	67.4	431.3	6,786	63.6	48.9	14.2	177.0	65.9		
		1979	1,299.9	45.8	10.3	1,356.0	744.6	17.6	593.9	83.5	510.4	8,039	63.5	48.2	14.9	209.5	79.4	79	
482 (2)	Packaging products of paper and associated materials	1977	432.8	14.5	3.3	450.5	274.6	10.6	165.4	22.0	143.4	6,339	22.6	17.1	5.4	53.8	20.9		
		1978	461.9	14.9	1.4	478.2	285.5	8.1	184.6	26.8	157.9	7,198	21.9	16.5	5.3	61.6	23.6		
		1979	520.1	19.6	5.2	544.8	324.4	3.5	216.9	32.2	184.7	9,246	20.0	15.1	4.7	65.7	25.0	79	
483	Manufactured stationery	1977	439.2	43.1	3.4	485.7	233.4	6.6	245.7	32.4	213.4	5,383	39.6	26.9	12.4	74.5	44.5		
		1978	527.3	63.9	5.0	596.2	289.3	7.4	299.6	48.1	251.4	6,328	39.7	27.1	12.3	86.4	49.6		
		1979	610.0	66.6	11.5	688.1	338.0	6.7	343.5	54.7	288.8	7,379	39.1	26.6	12.2	100.6	58.9	72	
484 (1)	Wallcoverings	1977	117.0	5.9	1.5	124.4	68.8	3.7	52.0	9.8	42.2	6,488	6.5	4.9	1.6	14.9	6.3		
		1978	121.9	4.7	-	126.6	66.3	2.1	58.2	10.8	47.4	7,750	6.1	4.5	1.6	15.7	6.7		
		1979(u)	200.3	6.9	8.7	216.0	131.5	2.2	82.4	19.3	63.0	6,853	9.2	6.7	2.5	29.0	13.8	74	
484 (2)	Miscellaneous manufactures of paper and board	1977	451.8	16.9	4.4	473.2	269.9	1.0	202.3	44.9	157.4	6,711	23.4	17.4	5.9	52.6	23.7		
		1978	466.2	20.4	0.7	487.4	262.3	3.4	221.6	54.1	167.5	7,526	22.3	16.3	5.8	57.7	27.4		
		1979	533.7	20.7	7.1	561.5	302.7	-0.6	259.4	63.3	196.1	8,806	22.3	16.3	5.8	69.2	31.9	82	
485, 486	Printing, publishing of newspapers and periodicals	1977	1,886.0	34.0	2.2	1,922.2	544.1	189.3	1,188.8	193.2	995.6	7,127	139.7	68.7	70.4	306.9	271.3		
		1978	2,198.6	39.6	2.7	2,240.8	587.0	221.9	1,432.0	238.2	1,193.7	8,659	137.9	65.3	71.9	350.2	317.1		
		1979	2,562.0	45.0	5.3	2,612.4	672.6	279.4	1,660.4	308.5	1,351.9	10,033	134.8	63.0	71.1	398.6	379.8	74	
489	General printing and publishing	1977	2,224.3	103.0	57.4	2,384.7	814.0	219.0	1,351.7	205.0	1,146.7	5,918	193.7	126.8	58.6	419.0	219.7		
		1978	2,532.8	115.7	51.9	2,700.4	924.3	198.0	1,578.1	327.4	1,250.7	6,612	189.1	122.6	58.0	471.3	252.0		
		1979	2,953.4	148.9	69.2	3,171.5	1,106.9	231.0	1,833.6	441.5	1,392.1	7,430	187.4	118.3	60.7	536.9	309.5	48	
<b>ORDER XIX Other manufacturing industries</b>			1977	4,186.4	424.0	97.7	4,708.0	2,420.0	55.3	2,232.7	340.9	1,891.9	5,503	343.8	252.0	87.6	712.9	328.7	
			1978	4,610.6	491.7	48.8	5,151.0	2,606.7	73.1	2,470.8	399.9	2,070.8	6,103	339.3	247.8	87.4	794.5	371.4	
			1979	5,338.2	595.4	84.9	6,018.3	3,089.3	47.6	2,881.4	487.7	2,393.9	7,170	333.9	242.5	87.2	907.1	437.3	72
491	Rubber	1977	1,529.2	215.4	49.3	1,793.9	949.0	20.7	824.1	114.9	709.2	6,092	116.4	82.7	33.3	277.9	128.2		
		1978	1,667.9	242.9	14.4	1,925.2	1,015.4	29.5	880.2	132.7	747.5	6,513	114.8	80.8	33.6	310.5	148.9		
		1979	1,811.9	279.0	1.2	2,092.0	1,108.6	26.3	957.1	153.0	804.1	7,474	107.6	74.5	32.8	328.2	168.1	84	
492	Linoleum, plastics floor-covering, leathercloth, etc.	1977	250.3	7.6	2.3	260.2	152.7	3.6	103.9	19.1	84.7	5,889	14.4	10.3	4.1	33.1	14.8		
		1978	263.6	9.7	-1.5	271.8	146.5	8.2	117.0	23.0	94.0	7,158	13.1	9.2	3.9	36.1	16.9		
		1979(u)	211.6	9.4	5.6	226.6	135.3	0.2	91.1	17.1	74.0	7,633	9.7	6.7	3.0	28.6	14.3	88	
493	Brushes and brooms	1977	79.9	8.5	1.3	89.7	44.7	-0.9	45.9	6.6	39.4	4,356	9.0	6.8	2.0	15.4	7.1		
		1978	90.0	10.7	0.8	101.5	49.3	-	52.1	8.0	44.1	4,878	9.0	6.8	2.1	17.1	8.3		
		1979	83.9	14.0	2.7	100.5	51.9	-0.8	49.4	8.2	41.2	5,087	8.1	6.0	1.9	16.7	9.0	67	
494 (1)(2)	Toys, games and children's carriages	1977	292.7	23.9	7.6	324.2	136.2	2.1	186.0	34.5	151.5	4,475	33.9	26.2	7.3	54.5	27.3		
		1978	350.6	22.9	5.0	378.5	153.8	1.4	223.3	39.3	183.9	5,207	35.3	27.2	7.7	66.3	29.0		
		1979	409.2	26.0	11.8	447.0	196.4	2.4	248.2	51.5	196.8	5,569	35.3	27.5	7.5	72.9	33.9	66	
494 (3)	Sports equipment	1977	110.2	23.6	5.5	139.2	65.8	0.7	72.7	11.3	61.4	4,866	12.6	9.5	2.9	22.3	10.1		
		1978	132.1	32.5	4.4	168.9	87.7	3.3	77.9	13.9	64.0	5,131	12.5	9.3	3.0	25.1	11.8		
		1979	137.8	42.3	4.0	184.1	90.0	2.3	91.8	17.8	74.0	6,131	12.1	8.7	3.1	28.0	15.1	51	



**TABLE 1 Output, costs and employment, 1977-1979**  
All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)	Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979	
											Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)		
			£ million	£ million	£ million	£ million	£ million	£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%	
<b>ORDER XIX Other manufacturing industries (continued)</b>																			
495	Miscellaneous stationers' goods	1977	136.9	10.6	4.3	151.8	77.0	0.4	74.4	14.4	60.0	6,126	9.8	6.4	3.3	17.6	12.1		
		1978	147.0	12.3	2.4	161.7	77.3	2.9	81.4	16.1	65.3	7,095	9.2	5.9	3.2	18.3	13.6		
		1979	160.3	15.2	3.2	178.8	86.8	2.9	89.1	18.8	70.3	7,681	9.1	5.9	3.1	21.9	15.8	80	
496	Plastics products	1977	1,586.5	118.5	20.6	1,725.6	892.2	27.5	805.9	124.1	681.9	5,467	124.7	92.5	29.9	251.5	112.6		
		1978	1,735.3	140.3	21.3	1,896.8	960.0	26.0	910.9	149.0	761.9	6,148	123.9	92.3	29.4	277.2	125.0		
		1979	2,271.6	185.4	47.9	2,504.8	1,295.3	13.0	1,196.5	193.4	1,003.2	7,700	130.3	96.9	31.0	355.4	158.3	68	
499 (1)	Musical instruments	1977	38.1	5.4	1.1	44.6	19.9	0.3	24.4	2.6	21.8	4,547	4.8	3.8	0.9	11.2	3.1		
		1978	40.0	6.4	1.4	47.8	19.9	0.7	27.2	3.0	24.2	5,090	4.8	3.7	0.9	12.0	3.7		
		1979	53.9	6.6	2.9	63.4	29.7	-	33.7	3.5	30.2	6,128	4.9	3.9	0.9	15.1	4.9	68	
499 (2)	Miscellaneous manufacturing industries	1977	162.6	10.5	5.7	178.8	82.5	0.9	95.4	13.4	82.0	4,501	18.2	13.8	3.9	29.4	13.4		
		1978	184.1	14.0	0.6	198.8	96.8	1.1	100.8	14.9	85.9	5,147	16.7	12.6	3.6	31.9	14.2		
		1979	198.0	17.5	5.6	221.1	95.3	1.3	124.5	24.4	100.1	5,955	16.8	12.4	3.9	40.3	17.9	48	
<b>ORDER XX 500 Construction</b>		1977	16,648.1	128.0	7.7	16,783.7	5,246.4	4,024.9	7,512.3	1,005.3	6,507.1	4,876	1,334.4	994.5	289.3	3,406.1	1,071.7		
		1978	19,522.7	131.7	4.0(t)	19,658.3	6,219.0	4,714.4	8,724.9	1,213.3	7,511.5	5,496	1,366.8	1,022.7	299.6	3,953.8	1,272.9		
		1979	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
<b>ORDER XXI Gas, electricity and water</b>		1977	8,502.4	0.4	..	8,502.8	3,565.0	285.8	4,651.9	511.3	4,140.6	13,070	316.8	164.8	152.1	602.9	668.6		
		1978	9,622.7	1.0	1.1	9,624.9	4,039.9	547.8	5,037.2	584.7	4,452.4	14,108	315.6	165.4	150.2	718.8	764.0		
		1979	10,995.8	1.6	-0.5	10,996.9	5,272.0	222.3	5,502.7	687.9	4,814.9	14,902	323.1	167.7	155.2	866.0	958.6	98	
601	Gas	1977	2,255.5	0.4	..	2,255.9	678.0	198.3	1,379.6	158.2	1,221.4	12,621	96.8	41.0	55.8	153.0	232.8		
		1978	2,584.2	0.4	..	2,584.6	963.0	265.1	1,356.5	183.9	1,172.5	12,204	96.1	41.7	54.4	180.3	261.9		
		1979	3,027.1	0.4	-	3,027.5	1,183.8	267.9	1,575.9	216.0	1,359.8	13,376	101.7	43.1	58.5	222.3	341.0	99	
602	Electricity	1977	5,487.1	..	..	5,487.1	2,766.3	52.8	2,668.0	276.8	2,391.2	13,496	177.2	98.4	78.8	365.2	363.8		
		1978	6,217.8	0.6	1.1	6,219.6	2,945.0	243.7	3,030.9	315.9	2,715.0	15,332	177.1	98.8	78.3	443.5	420.2		
		1979	7,031.6	1.2	-0.5	7,032.3	3,915.3	-73.2	3,190.2	369.9	2,820.4	15,890	177.5	99.3	78.2	524.3	516.8	100	
603	Water supply	1977	759.8	..	..	759.8	120.7	34.7	604.3	76.3	528.0	12,329	42.8	25.4	17.5	84.7	72.0		
		1978	820.7	..	..	820.7	131.9	39.0	649.8	84.9	564.9	13,322	42.4	24.9	17.5	95.0	81.9		
		1979	937.1	..	..	937.1	172.9	27.6	736.6	102.0	634.7	14,468	43.9	25.3	18.5	119.4	100.8	90	
<b>Energy industries (g)</b>			1977	17,503.0(n)	24.1(n)	-18.1	17,509.1	10,156.4	340.6	7,012.1	591.1	6,420.9	10,866	590.9	420.4	170.5	1,531.2	761.1	
			1978	18,281.3(n)	26.5(n)	36.4	18,344.5	10,309.7	615.6	7,419.2	672.9	6,746.1	11,540	584.6	415.6	168.9	1,847.2	882.9	
			1979	21,765.8	518.7	392.6	22,677.0	13,091.7	13.9	9,571.5	793.8	8,777.6	14,941	587.5	414.5	172.7	2,163.3	1,095.0	100
101	Coal mining	1977	2,507.8(h)	-	33.9	2,541.8	611.4(j)	14.9	1,915.5	83.9	1,831.6	6,253	292.9	265.6	27.3	946.6	121.6		
		1978	2,861.3(h)	-	91.8	2,953.1	678.5(j)	-8.8	2,283.4	93.7	2,189.6	7,619	287.4	259.9	27.5	1,149.0	149.5		
		1979	3,380.1(h)	-	6.9	3,387.0	725.1(j)	56.9	2,605.1	108.6	2,496.4	8,784	284.2	257.0	27.2	1,325.9	176.8	100	
104	Petroleum and natural gas	1977	2,647.4	0.1	2.9	2,650.4	599.9(p)	233.7(q)	..	..	1,816.8	..	8.5(r)	..	..	63.0(l)	..		
		1978	3,332.5(m)	(m)	-1.5	3,331.0	619.3(p)	286.3(q)	..	..	2,425.4	..	9.9(r)	..	..	83.3(l)	..		
		1979	6,379.5	2.3	9.0	6,390.8	771.0(p)	581.0(q)	..	..	5,038.8	..	11.4(r)	..	..	129.3(l)	..		
262	Mineral oil refining	1977	6,907.0(m)	(m)	-56.2	6,850.8	5,853.5	72.5	924.8	57.8	867.0	50,582	17.1	11.9	5.3	52.8	29.6		
		1978	6,263.3(m)	(m)	-56.5	6,206.9	5,464.7	109.3	632.9	63.4	569.5	33,507	17.0	11.6	5.4	59.8	35.6		
		1979	7,877.8	484.2	375.1	8,737.0	6,946.2	-237.4	2,028.2	78.5	1,949.7	114,916	17.0	11.5	5.4	72.4	41.8	97	
263	Lubricating oils and greases	1977	345.6	23.7	4.2	373.5	247.2	2.1	124.2	14.4	109.7	15,907	6.9	3.5	3.3	13.6	13.3		
		1978	354.7	25.5	..	380.3	258.5	6.3	115.5	16.0	99.5	14,293	7.0	3.6	3.3	14.6	15.7		
		1979	449.2	32.9	11.1	493.2	321.3	-0.3	172.1	20.8	151.3	21,459	7.1	3.6	3.4	18.4	18.6	82	



**TABLE 1 Output, costs and employment, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)**

Standard Industrial Classification Orders or minimum list heading (b)	Industry	Year	Sales of goods produced, receipts for work done and services rendered	Merchanted goods	Increase during year in work in progress and goods on hand for sale	Gross output	Cost of purchases (c)
			£ million	£ million	£ million	£ million	£ million
<b>Energy industries (g) (continued)</b>							
601	Gas	1977	2,255.5	0.4	..	2,255.9	678.0
		1978	2,584.2	0.4	..	2,584.6	963.0
		1979	3,027.1	0.4	-	3,027.5	1,183.8
602	Electricity	1977	5,487.1	..	..	5,487.1	2,766.3
		1978	6,217.8	0.6	1.1	6,219.6	2,945.0
		1979	7,031.6	1.2	-0.5	7,032.3	3,915.3

- (a) Includes estimates for establishments not making satisfactory returns, and establishments employing less than 20 persons.
- (b) References to Orders are to those in the Standard Industrial Classification (revised 1968). Industry code numbers indicate the minimum list heading (MLH) and, if appropriate, a sub-division of a minimum list heading. For industries covering two or more sub-divisions, the sub-divisions are given in brackets.
- (c) Including cost of purchases of goods for merchandising or factoring.
- (d) The figures include payment for work given out, repairs and maintenance, the change in stocks of materials, stores and fuel, and, where applicable, duties, subsidies and allowances etc.
- (e) Average number employed during the year, including full and part-time employees and working proprietors.
- (f) Administrative, technical and clerical employees.
- (g) Excluding MLH 104 - Petroleum and natural gas.
- (h) Excluding the value of all colliery consumption of coal.
- (j) Figures relate to the cost of materials and fuel used.
- (k) Sales of products are valued at ex-mine or ex-quarry prices, the cost of transport being included in "Increase during the year in work in progress and goods on hand for sale".

Cost of industrial services, increase during the year of materials, stores and fuel (d)	Net output	Cost of non-industrial services, rates, motor vehicle licences	Gross value added at factor cost		Employment			Wages and salaries		Percentage response in 1979
			Total	per head	Total (e)	Operatives	Others (f)	Operatives	Others (f)	
£ million	£ million	£ million	£ million	£	Thousand	Thousand	Thousand	£ million	£ million	%
198.3	1,379.6	158.2	1,221.4	12,621	96.8	41.0	55.8	153.0	232.8	
265.1	1,356.5	183.9	1,172.5	12,204	96.1	41.7	54.4	180.3	261.9	
267.9	1,575.9	216.0	1,359.8	13,376	101.7	43.1	58.5	222.3	341.0	99
52.8	2,668.0	276.8	2,391.2	13,496	177.2	98.4	78.8	365.2	363.8	
243.7	3,030.9	315.9	2,715.0	15,332	177.1	98.8	78.3	443.5	420.2	
-73.2	3,190.2	369.9	2,820.4	15,890	177.5	99.3	78.2	524.3	516.8	100

- (l) Includes salaries paid to "Others".
- (m) Figures for merchanted goods are included in sales of goods produced and work done.
- (n) Figures for an element of merchanted goods are included in sales of goods produced and work done.
- (p) Including cost of purchases of goods and services for exploration and operating activities.
- (q) Figures relate to royalties etc. due or payable.
- (r) Estimated.
- (s) For 1977, increase during the year, stocks of materials, stores and fuel were included with Purchases of materials for use in production and packaging and fuel.
- (t) Work in progress figures not available.
- (u) Figures are affected by significant reclassifications of establishments.



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net (d)	New building work
			£ million	£ million
<b>ORDER II(e)</b>	<b>Mining and quarrying</b>	1977	404.0	98.1
		1978	516.5	135.5
		1979	689.7	228.7
101	Coal mining	1977	323.5	90.6
		1978	409.4	126.6
		1979	574.1	220.0
102	Stone and slate quarrying and mining	1977	28.7	1.1
		1978	37.4	1.1
		1979	50.0	1.6
103	Chalk, clay, sand and gravel extraction	1977	33.9	2.4
		1978	48.1	3.3
		1979	52.6	5.1
104	Petroleum and natural gas	1977	1,943.6	1,240.3
		1978	2,124.7	1,217.8
		1979	2,135.2	1,209.9
109 (1)(2)(3)(4)	Miscellaneous mining and quarrying	1977	17.9	4.0
		1978	21.6	4.5
		1979	13.0	2.0
<b>ORDERS 111-XIX</b>	<b>All manufacturing industries</b>	1977	4,774.2	666.3
		1978	5,842.5	824.6
		1979	6,793.2	1,055.1
<b>ORDER III</b>	<b>Food, drink and tobacco</b>	1977	703.3	128.8
		1978	809.4	150.5
		1979	924.1	172.6
211	Grain milling	1977	30.3	6.3
		1978	33.2	3.9
		1979	33.9	4.7
212	Bread and flour confectionery	1977	37.2	3.7
		1978	48.7	6.0
		1979	48.5	5.4
213	Biscuits	1977	25.7	2.1
		1978	29.8	5.1
		1979	31.9	8.7
214	Bacon curing, meat and fish products	1977	76.0	17.3
		1978	93.2	25.5
		1979	114.4	26.1
215	Milk and milk products	1977	62.8	15.2
		1978	70.1	14.2
		1979	104.8	18.7
216	Sugar	1977	34.5	7.6
		1978	37.2	5.8
		1979	38.4	6.5
217	Cocoa, chocolate and sugar confectionery	1977	53.4	5.9
		1978	66.4	10.1
		1979	70.6	12.0
218	Fruit and vegetable products	1977	40.1	5.9
		1978	42.5	9.7
		1979	44.2	7.1

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
5.7	1.1	297.2	8.1	14.7	2.3
6.5	34.0	393.5	4.7	25.9	6.2
31.0	25.2	441.5	4.9	22.2	3.6
2.8	—	231.9	2.2	0.5	—
2.6	31.9	313.6	1.8	0.4	0.1
23.2	24.1	355.1	0.7	0.7	0.1
0.9	0.7	27.0	3.4	4.8	1.0
*	*	31.2	1.7	6.3	1.0
2.3	0.1	40.3	2.4	9.4	1.1
1.2	0.4	25.3	1.2	7.4	0.8
1.9	1.8	32.5	1.1	18.3	5.0
5.4	1.0	37.0	1.8	10.3	2.4
0.8	58.1	757.7	14.5	17.4	0.1
1.9	—	880.3	0.4	26.5	1.4
0.4	24.5	919.9	20.9	56.2	5.8
0.8	—	13.0	1.3	2.0	0.5
*	*	16.2	0.1	0.9	0.1
0.1	—	9.1	—	1.8	—
171.9	94.7	3,749.2	136.7	563.1	145.0
242.6	111.7	4,588.4	159.7	653.4	193.9
260.6	126.3	5,245.9	199.6	790.4	232.9
22.5	20.8	504.4	12.7	98.9	17.8
30.5	22.6	581.0	14.5	107.2	22.6
47.7	23.6	660.1	27.9	122.7	27.5
0.5	0.2	21.2	1.1	4.5	0.9
1.0	0.8	25.4	0.4	5.2	1.0
2.8	0.2	22.7	0.3	5.3	1.1
2.8	2.4	24.4	1.5	12.3	2.2
5.3	3.0	32.3	2.3	12.9	2.5
2.8	2.2	34.1	1.4	13.2	3.4
0.3	0.1	17.8	0.2	6.4	0.6
0.5	0.1	20.5	0.2	5.0	0.9
1.0	0.1	19.9	0.6	3.8	0.8
4.2	3.6	48.6	1.8	14.1	2.9
3.4	2.9	57.5	1.9	15.3	3.6
6.5	2.3	70.0	2.3	21.7	5.3
1.5	0.5	38.8	0.8	9.6	1.0
2.6	0.5	44.8	1.3	11.3	1.1
2.4	0.5	75.5	1.3	11.6	1.6
—	0.3	27.0	0.1	0.4	0.1
0.1	1.9	33.4	0.1	0.6	0.6
0.1	0.6	32.1	0.1	0.5	0.1
0.8	0.4	42.8	0.7	7.1	2.1
0.5	0.1	52.7	1.0	5.8	1.7
1.0	1.6	58.4	3.0	6.8	3.0
1.9	0.5	30.2	0.6	4.1	1.0
1.6	0.5	29.1	0.7	4.8	1.4
0.5	0.3	33.4	0.8	6.0	1.7



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders, or minimum list heading (c)	Industry	Year	Total net (d)	New building work
			£ million	£ million
<b>ORDER III Food, drink and tobacco (continued)</b>				
219	Animal and poultry foods	1977	48.7	7.9
		1978	48.1	7.1
		1979	50.3	9.0
221	Vegetable and animal oils and fats	1977	14.0	2.0
		1978	15.2	2.0
		1979	21.0	2.8
229 (1)	Margarine	1977	4.0	1.1
		1978	4.0	*
		1979	4.1	0.4
229 (2)	Starch and miscellaneous foods	1977	33.2	3.6
		1978	36.7	3.9
		1979	46.0	7.7
231	Brewing and malting	1977	146.5	30.9
		1978	175.6	40.9
		1979	180.7	40.9
232	Soft drinks	1977	23.9	5.8
		1978	26.6	4.0
		1979	27.7	4.3
239 (1)	Spirit distilling and compounding	1977	33.2	9.6
		1978	37.1	8.9
		1979	45.5	14.1
239 (2)	British wines, cider and perry	1977	6.8	1.4
		1978	7.9	1.5
		1979	9.0	2.5
240	Tobacco	1977	33.5	2.5
		1978	37.1	*
		1979	53.1	1.7
<b>ORDER IV Coal and petroleum products</b>				
261	Coke ovens and manufactured fuel	1977	8.4	0.9
		1978	11.3	0.9
		1979	17.2	1.0
262	Mineral oil refining	1977	72.1	5.8
		1978	148.1	4.4
		1979	193.6	20.2
263	Lubricating oils and greases	1977	9.6	3.3
		1978	8.0	1.3
		1979	10.2	0.9
<b>ORDER V Chemicals and allied industries</b>				
271 (1)	Inorganic chemicals	1977	788.0	97.3
		1978	1,077.9	137.1
		1979	1,162.8	163.8

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
2.4	0.8	33.1	0.6	8.5	1.8
1.7	1.1	34.3	0.7	9.5	2.6
1.8	0.5	35.1	2.1	9.5	2.5
0.2	0.2	10.8	0.4	1.9	0.4
0.5	0.1	11.2	0.2	2.2	0.5
1.2	-	15.4	0.1	2.2	0.5
-	-	2.9	0.1	0.1	-
*	*	3.4	-	0.2	0.1
-	-	3.5	-	0.3	0.1
0.6	0.5	28.0	0.4	2.5	0.6
0.7	0.3	31.3	0.8	2.8	0.9
1.4	0.6	37.2	2.8	4.1	1.0
4.9	8.1	104.5	1.4	18.2	2.5
6.8	9.9	121.6	1.8	21.7	3.6
13.3	13.3	131.3	10.0	22.4	3.9
0.7	0.8	15.3	0.3	3.7	0.7
1.2	0.7	18.9	0.6	4.5	0.7
0.7	0.3	19.9	0.3	4.1	0.7
0.6	0.7	22.8	0.7	2.1	0.4
0.9	0.1	26.5	0.5	1.8	0.5
1.6	0.6	28.9	0.8	2.8	0.5
0.7	0.1	4.0	0.1	1.1	0.2
1.2	0.6	4.7	0.1	1.4	0.3
*	*	5.2	0.3	1.6	0.5
0.4	1.6	32.2	1.9	2.3	0.4
*	*	33.4	1.9	2.2	0.6
*	*	37.5	1.7	6.8	0.8
0.7	6.6	83.7	0.3	3.1	0.6
0.3	0.1	159.0	1.9	4.3	0.7
1.3	0.1	193.4	0.6	5.8	0.9
0.1	-	7.2	0.1	0.2	-
0.1	-	10.0	-	0.4	-
*	*	15.8	-	0.2	-
0.2	6.5	71.8	0.2	1.1	0.2
0.1	-	*	*	1.5	0.2
*	*	172.0	0.5	2.0	0.2
0.4	0.1	4.7	-	1.8	0.4
0.1	0.1	*	*	2.4	0.5
*	*	5.6	0.1	3.6	0.7
15.8	4.0	655.7	9.5	44.7	12.2
22.5	6.4	900.3	9.5	48.7	14.4
20.4	4.9	953.4	13.6	62.3	18.6
0.4	0.4	70.7	0.9	6.6	0.7
1.0	0.9	109.8	0.9	7.4	0.6
0.7	0.5	130.5	1.0	7.7	1.5



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net (d)	New building work
			£ million	£ million
<b>ORDER V Chemicals and allied industries (continued)</b>				
271 (2)	Organic chemicals	1977	219.3	8.2
		1978	301.1	14.6
		1979	255.7	14.9
271 (3)	Miscellaneous chemicals	1977	90.7	18.4
		1978	119.8	22.6
		1979	150.3	33.1
272	Pharmaceutical chemicals and preparations	1977	87.7	21.5
		1978	124.5	33.2
		1979	138.5	35.8
273	Toilet preparations	1977	17.9	4.9
		1978	17.2	5.7
		1979	30.5	11.0
274	Paint	1977	15.8	1.4
		1978	20.0	3.2
		1979	26.9	3.7
275	Soap and detergents	1977	16.0	1.3
		1978	19.8	1.8
		1979	25.1	3.2
276	Synthetic resins and plastics materials and synthetic rubber	1977	90.6	13.9
		1978	128.8	11.8
		1979	168.1	20.1
277	Dyestuffs and pigments	1977	63.8	7.0
		1978	78.5	7.1
		1979	65.8	5.0
278	Fertilizers	1977	48.8	4.2
		1978	71.2	7.1
		1979	75.0	6.8
279 (1)	Polishes	1977	5.1	1.6
		1978	5.3	1.4
		1979	6.4	1.5
279 (2)	Formulated adhesives, gelatine, etc.	1977	7.8	1.3
		1978	8.2	1.0
		1979	8.7	1.6
279 (3)	Explosives and fireworks	1977	11.5	2.6
		1978	17.1	6.4
		1979	25.5	8.2
279 (4)	Formulated pesticides, etc.	1977	9.2	1.9
		1978	9.1	2.8
		1979	6.3	1.2
279 (5)	Printing ink	1977	4.0	0.7
		1978	3.3	0.7
		1979	5.2	1.2
279 (6)	Surgical bandages, etc.	1977	4.9	0.9
		1978	6.4	0.9
		1979	9.0	0.8

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
0.4	0.2	211.0	2.8	3.0	0.3
2.0	0.4	283.6	0.9	2.9	0.6
0.4	0.3	237.5	0.3	4.6	1.1
3.4	0.1	66.1	0.2	4.1	1.1
7.9	1.0	87.6	0.4	4.4	1.2
5.3	1.3	110.0	1.3	6.7	2.2
4.5	1.1	59.5	1.2	7.0	2.5
4.1	0.4	84.2	1.4	7.7	2.9
3.0	0.3	96.1	1.6	9.0	3.5
0.9	0.1	11.2	0.3	2.2	1.1
0.5	1.1	11.9	0.8	2.3	1.3
3.5	0.1	14.7	0.2	2.8	1.2
0.3	0.3	11.7	0.2	4.4	1.5
0.7	0.4	13.8	0.3	4.6	1.6
1.4	0.3	19.0	0.6	5.7	2.0
0.3	0.2	13.9	0.5	2.0	0.8
0.7	—	16.0	0.1	2.5	0.9
1.6	—	18.9	0.5	2.7	0.8
1.0	0.7	75.1	2.0	4.3	1.0
1.6	1.1	115.5	1.8	4.3	1.5
1.0	0.6	148.0	5.2	6.5	1.7
0.2	—	56.0	0.2	1.0	0.3
1.4	0.2	69.7	0.5	1.4	0.3
0.2	0.1	61.3	1.2	1.0	0.4
0.6	0.4	42.6	0.5	2.8	0.7
0.5	0.4	62.3	1.3	3.8	0.9
1.0	0.3	63.6	0.6	5.7	1.2
0.3	—	2.5	—	1.2	0.5
0.1	0.2	3.3	—	1.2	0.5
0.7	0.1	3.4	—	1.3	0.4
0.6	0.2	5.7	0.3	1.2	0.5
*	*	5.9	0.3	1.2	0.6
1.2	0.7	6.1	0.4	1.6	0.7
0.9	0.1	7.7	0.1	0.7	0.1
0.3	0.1	10.4	0.2	0.4	0.1
0.2	—	16.6	0.5	1.1	0.1
0.2	—	6.6	—	0.8	0.2
*	*	*	*	1.2	0.4
0.1	0.3	4.0	—	1.8	0.5
0.3	—	2.5	0.1	0.9	0.2
—	0.2	2.3	0.1	0.7	0.2
0.1	—	3.0	—	1.2	0.3
—	—	3.3	0.1	1.3	0.4
*	*	4.7	0.1	1.4	0.5
*	*	7.0	0.1	1.9	0.6



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net	New building
			(d)	work
			£ million	£ million
<b>ORDER V Chemical and allied industries (continued)</b>				
279 (7)	Photographic chemical materials	1977	14.0	2.3
		1978	17.4	2.5
		1979	15.9	1.7
<b>ORDER VI Metal manufacture</b>				
311	Iron and steel (general)	1977	452.6	61.0
		1978	350.0	32.1
		1979	191.0	21.9
312	Steel tubes	1977	44.1	6.3
		1978	32.2	5.2
		1979	22.9	3.8
313	Iron castings, etc.	1977	39.3	5.3
		1978	43.2	3.9
		1979	61.4	7.6
321	Aluminium and aluminium alloys	1977	36.0	4.8
		1978	42.0	4.5
		1979	61.6	7.5
322	Copper, brass and other copper alloys	1977	17.0	1.4
		1978	23.6	2.5
		1979	35.4	5.7
323	Miscellaneous base metals	1977	29.2	4.1
		1978	22.2	2.7
		1979	22.1	2.3
<b>ORDER VII Mechanical engineering</b>				
331	Agricultural machinery (except tractors)	1977	12.3	3.1
		1978	10.4	4.2
		1979	14.9	3.8
332	Metal-working machine tools	1977	27.2	2.1
		1978	36.3	6.0
		1979	39.0	8.2
333 (1)	Pumps	1977	13.0	2.5
		1978	15.1	2.5
		1979	13.2	1.5
333 (2)	Valves	1977	16.2	1.6
		1978	17.6	3.7
		1979	19.7	3.4
333 (3)(4)	Compressors and fluid power equipment	1977	15.8	1.7
		1978	20.8	2.8
		1979	30.7	5.6
334	Industrial engines	1977	26.1	4.9
		1978	37.9	7.2
		1979	34.0	3.1

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
1.5	0.2	9.6	0.1	1.2	0.3
*	*	*	*	1.3	0.3
*	*	13.7	0.1	1.0	0.4
9.8	3.9	518.0	6.5	23.2	5.4
11.1	7.1	449.0	9.2	26.2	7.8
8.1	7.6	333.6	14.3	33.8	8.0
2.4	1.8	386.0	3.6	10.6	2.0
5.8	4.5	312.8	5.8	12.2	2.6
1.2	4.7	169.2	8.1	14.4	2.9
3.3	0.6	34.5	0.6	1.6	0.4
0.3	0.6	26.6	0.8	2.0	0.5
0.3	-	17.9	1.3	3.0	0.8
1.7	0.6	31.0	0.7	3.8	1.2
2.4	0.3	34.6	0.6	4.3	1.3
2.9	0.7	48.2	0.9	5.8	1.5
1.1	0.7	29.0	1.0	3.7	0.9
1.3	1.0	36.9	1.1	3.6	2.2
3.0	0.6	49.8	1.9	5.1	1.3
0.3	0.1	14.2	0.4	2.1	0.6
0.6	0.6	20.3	0.6	2.3	0.8
*	*	29.5	1.6	3.5	1.0
1.0	0.1	23.3	0.2	1.4	0.3
0.7	0.1	17.8	0.3	1.8	0.4
*	*	19.0	0.5	2.0	0.5
19.9	7.2	338.6	20.0	73.2	20.3
36.7	16.6	394.9	26.8	84.8	27.9
25.8	17.8	422.4	36.8	100.3	31.7
0.5	0.1	7.2	0.3	2.3	0.6
0.5	3.1	7.9	1.1	2.7	0.8
1.5	1.2	8.5	0.4	4.1	1.4
0.5	0.1	23.4	1.5	3.8	1.0
1.9	0.7	28.3	2.5	5.0	1.8
0.3	0.9	30.0	2.6	6.0	2.0
1.3	0.1	9.1	1.2	1.9	0.5
0.4	0.3	11.4	0.9	2.6	0.7
0.3	0.5	9.9	0.4	3.3	0.9
0.3	0.2	13.9	0.4	1.6	0.5
0.5	0.2	13.1	0.7	1.6	0.4
0.1	1.0	16.4	0.5	1.9	0.6
0.4	0.1	14.3	2.5	2.9	0.8
0.8	0.2	16.4	1.2	3.4	1.3
0.6	0.1	23.7	1.3	4.0	1.8
0.5	0.3	20.5	0.4	1.0	0.2
*	*	30.2	0.4	1.1	0.3
0.5	0.1	30.7	1.2	1.2	0.2



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net	New building work
			(d)	
			£ million	£ million
<b>ORDER VII Mechanical engineering (continued)</b>				
335	Textile machinery and accessories	1977	7.4	0.8
		1978	8.4	1.1
		1979	10.3	1.0
336	Construction and earthmoving equipment	1977	41.7	9.2
		1978	40.3	7.0
		1979	42.2	10.8
337	Mechanical handling equipment	1977	26.1	5.0
		1978	33.5	7.8
		1979	33.4	9.7
338	Office machinery	1977	7.6	0.2
		1978	6.5	0.2
		1979	9.0	0.4
339 (1)	Mining machinery	1977	11.9	2.3
		1978	15.5	2.6
		1979	17.2	2.6
339 (2)	Printing, bookbinding, and paper goods machinery	1977	7.3	0.6
		1978	11.6	1.1
		1979	11.2	1.9
339 (3)(4)	Refrigerating machinery, space-heating, ventilating and air-conditioning equipment	1977	28.7	7.5
		1978	24.1	3.3
		1979	26.4	3.8
339 (5)(6)	Scales and weighing machinery and portable power tools	1977	6.4	0.9
		1978	6.5	0.8
		1979	8.7	1.2
339 (7)(8)	Food and drink processing machinery and packaging and bottling machinery	1977	16.7	4.5
		1978	19.1	7.1
		1979	16.9	6.3
339 (9)	Miscellaneous (non-electrical) machinery	1977	29.6	5.8
		1978	32.0	5.2
		1979	34.9	5.6
341	Industrial (including process) plant and steelwork	1977	70.4	13.8
		1978	82.1	15.5
		1979	80.4	17.8
342	Ordnance and smallarms	1977	14.9	1.9
		1978	15.8	2.6
		1979	16.5	3.2
349 (1)	Ball, roller, plain and other bearings	1977	19.8	4.4
		1978	13.8	1.8
		1979	13.8	1.5
349 (2)(3)	Precision chains and other mechanical engineering	1977	63.7	6.3
		1978	90.6	10.3
		1979	95.1	13.9

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
0.6	0.3	5.8	0.6	1.7	0.6
—	1.2	8.6	1.5	2.2	0.8
0.4	0.5	8.8	0.9	2.4	0.9
1.9	0.2	28.5	1.1	5.3	1.8
2.5	0.7	30.5	2.4	5.0	1.5
1.3	0.4	29.2	1.4	4.0	1.3
3.2	0.2	14.3	1.1	6.4	1.4
4.3	0.8	19.4	1.7	6.5	2.0
1.7	0.7	17.8	1.4	8.8	2.5
0.1	0.1	7.2	0.2	0.6	0.2
0.1	—	6.3	0.3	0.6	0.4
—	—	8.3	0.4	1.0	0.3
0.3	—	8.2	0.4	2.0	0.4
0.2	—	11.3	0.4	2.4	0.6
1.0	0.6	13.0	1.0	3.0	0.8
0.5	1.1	6.5	0.5	1.7	0.4
1.4	0.2	9.1	1.0	1.9	0.6
*	*	8.9	0.8	1.6	0.6
1.5	1.1	17.6	0.5	5.0	1.3
1.2	0.6	17.1	0.8	5.7	1.7
1.5	0.3	15.9	0.5	8.1	2.1
0.2	0.1	4.8	0.1	1.0	0.2
0.2	0.3	5.2	0.2	1.2	0.4
0.2	*	6.6	*	1.5	0.6
0.5	0.2	10.5	0.6	2.6	0.6
1.2	0.2	9.4	0.6	3.3	1.1
0.4	0.2	9.9	1.7	3.3	1.1
1.6	1.3	20.5	1.4	6.2	1.9
2.1	2.6	24.0	1.7	7.6	2.6
3.3	1.8	25.6	2.8	8.0	3.0
2.2	1.2	47.7	2.2	14.6	4.4
10.8	3.2	51.4	3.4	16.4	5.4
5.9	5.2	51.7	4.4	21.1	6.5
0.2	—	12.6	0.2	0.5	0.1
—	—	13.3	0.5	0.7	0.2
*	*	18.3	*	0.9	0.2
0.5	—	14.7	0.6	1.1	0.2
*	*	12.0	0.6	0.9	0.4
—	0.4	14.1	2.4	1.4	0.4
3.1	0.5	51.3	4.2	11.0	3.2
7.6	1.5	70.0	4.9	14.0	4.9
5.4	3.0	75.1	6.5	14.7	4.5



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net (d)	New building work
			£ million	£ million
<b>ORDER VIII</b>	<b>Instrument engineering</b>	1977	60.6	5.9
		1978	78.8	8.5
		1979	89.5	12.6
351	Photographic and document copying equipment	1977	9.1	0.9
		1978	9.5	*
		1979	6.3	-
352	Watches and clocks	1977	2.4	0.1
		1978	5.1	*
		1979	2.8	0.3
353	Surgical instruments and appliances	1977	9.9	0.9
		1978	12.2	0.9
		1979	18.7	4.0
354	Scientific and industrial instruments and systems	1977	39.2	4.0
		1978	52.0	7.1
		1979	61.7	8.3
<b>ORDER IX</b>	<b>Electrical engineering</b>	1977	314.5	40.3
		1978	406.5	52.8
		1979	460.6	68.6
361	Electrical machinery	1977	50.3	7.4
		1978	65.3	8.5
		1979	73.9	9.2
362	Insulated wires and cables	1977	23.9	3.1
		1978	32.3	3.1
		1979	39.4	2.9
363	Telegraph and telephone apparatus and equipment	1977	30.1	4.8
		1978	34.4	5.2
		1979	45.4	10.9
364	Radio and electronic components	1977	58.1	3.5
		1978	70.6	5.1
		1979	78.1	6.2
365 (1)	Gramophone records and tape recordings	1977	3.4	0.1
		1978	7.1	*
		1979	10.8	*
365 (2)	Broadcast receiving and sound reproducing equipment	1977	8.8	1.3
		1978	15.3	0.8
		1979	18.0	*
366	Electronic computers	1977	22.6	5.2
		1978	36.4	11.5
		1979	41.0	12.4
367	Radio, radar and electronic capital goods	1977	42.9	3.9
		1978	64.1	5.7
		1979	63.2	10.6
368	Electrical appliances primarily for domestic use	1977	27.3	3.1
		1978	34.7	2.8
		1979	31.2	4.1

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
5.2	3.5	47.3	2.9	11.7	3.1
6.8	1.5	57.7	1.7	13.3	4.2
6.6	1.8	65.3	3.8	14.9	4.3
-	-	8.0	0.4	0.7	0.1
*	*	8.5	0.2	1.0	0.2
-	*	5.6	*	0.9	0.1
-	-	2.1	0.1	0.5	0.1
*	*	4.5	-	0.4	0.1
0.1	*	2.3	*	0.6	0.2
0.9	0.3	7.7	0.6	2.0	0.7
2.4	-	7.1	0.2	2.9	0.9
3.6	0.5	9.6	0.4	3.6	1.2
4.3	3.2	29.5	1.8	8.5	2.2
4.2	1.5	37.6	1.3	9.0	3.0
2.9	1.3	47.8	3.0	9.8	2.8
11.7	6.0	257.9	14.3	32.6	7.6
15.4	6.6	334.7	17.7	37.2	9.4
19.7	4.3	357.3	12.0	43.7	12.4
2.4	1.3	37.6	1.1	7.1	1.9
1.0	0.8	52.7	1.9	8.0	2.2
2.3	0.3	59.3	2.7	8.9	2.8
0.3	0.9	20.3	0.5	2.1	0.5
0.8	0.2	27.3	0.4	2.0	0.3
3.1	0.1	32.0	0.6	2.4	0.3
0.2	0.2	25.7	1.5	1.5	0.4
0.2	0.5	29.0	0.9	1.9	0.5
1.3	0.8	32.2	0.4	2.8	0.6
3.6	0.7	52.9	3.7	3.5	1.1
3.8	0.7	62.6	2.9	4.0	1.3
4.1	0.2	66.9	2.7	5.7	1.9
0.2	-	2.9	0.1	0.5	0.1
*	*	*	*	0.5	0.1
*	-	5.3	-	0.6	0.3
0.1	0.9	9.2	2.2	1.7	0.3
0.7	0.1	19.2	6.3	1.4	0.4
*	0.5	15.4	0.2	1.2	0.3
0.7	0.4	18.5	2.4	1.4	0.3
0.6	0.6	24.5	1.3	2.2	0.5
0.1	-	27.7	0.4	1.8	0.6
1.1	0.1	36.3	1.5	4.3	1.2
4.9	2.2	53.1	1.9	5.7	1.3
5.2	1.2	47.4	3.6	6.8	2.0
1.3	0.5	20.0	0.4	4.7	0.9
2.4	0.2	26.3	0.5	5.2	1.4
0.7	0.1	23.4	0.5	5.0	1.4



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net	New building
			(d)	work
			£ million	£ million
<b>ORDER IX</b>	<b>Electrical engineering (continued)</b>			
369 (1)	Electrical equipment for motor vehicles, cycles and aircraft	1977	12.5	1.1
		1978	14.6	1.7
		1979	14.9	0.7
369 (2)(3)	Primary and secondary batteries	1977	16.9	3.8
		1978	13.8	*
		1979	17.7	1.3
369 (4)(5)	Electric lamps, electric light fittings, wiring accessories, etc.	1977	17.7	3.0
		1978	17.9	2.2
		1979	27.0	3.1
<b>ORDER X</b>	<b>Ship building and marine engineering</b>			
370		1977	64.9	21.2
		1978	76.4	31.9
		1979	115.4	49.9
<b>ORDER XI</b>	<b>Vehicles</b>			
380	Wheeled tractor manufacturing	1977	18.7	2.8
		1978	37.0	*
		1979	30.0	5.5
381 (1)	Motor vehicle manufacturing	1977	310.9	36.1
		1978	415.9	73.2
		1979	668.4	84.3
381 (2)	Trailers, caravans and freight containers	1977	10.5	3.7
		1978	10.5	2.4
		1979	13.5	3.7
382	Motor cycle, tricycle and pedal cycle manufacturing	1977	3.1	0.3
		1978	5.1	0.6
		1979	4.7	*
383	Aerospace equipment manufacturing and repairing	1977	58.1	10.6
		1978	88.1	11.3
		1979	131.6	16.6
384, 385	Locomotives, railway track equipment, railway carriages, wagons and trams	1977	11.4	3.8
		1978	16.2	*
		1979	18.5	*
<b>ORDER XII</b>	<b>Metal goods not elsewhere specified</b>			
390	Engineers' small tools and gauges	1977	25.3	1.7
		1978	42.2	2.0
		1979	45.7	3.3
391	Hand tools and implements	1977	4.8	0.4
		1978	7.1	2.0
		1979	7.6	1.2
392	Cutlery spoons, forks and plated tableware, etc.	1977	5.3	0.1
		1978	7.9	0.9
		1979	8.6	2.0

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
0.1	—	10.2	0.3	1.7	0.3
0.1	0.6	11.9	0.2	2.2	0.4
0.6	—	12.1	0.3	2.2	0.4
0.9	0.4	10.9	0.1	2.1	0.2
*	*	*	*	2.1	0.3
0.2	—	14.6	0.2	2.3	0.5
0.8	0.6	13.4	0.5	2.0	0.4
0.7	0.1	14.2	0.4	2.0	0.7
1.7	1.1	21.0	0.4	4.0	1.3
4.7	0.4	37.8	1.7	4.3	0.9
3.1	0.2	39.2	0.8	4.4	1.2
19.8	1.4	50.8	6.6	4.6	1.7
22.9	4.3	312.7	7.4	44.4	13.1
19.3	8.2	442.4	9.5	48.8	19.7
15.7	12.7	709.3	10.0	72.4	24.6
0.1	0.1	15.8	0.7	0.7	0.1
*	*	29.8	0.7	0.5	0.2
*	*	24.6	0.3	0.4	0.2
19.1	3.2	237.1	3.1	34.9	10.0
8.4	4.9	324.8	6.2	37.6	17.0
10.0	8.5	550.6	5.6	58.6	21.0
0.9	0.4	5.1	0.1	2.1	0.7
1.7	0.5	5.7	0.2	2.1	0.7
1.5	0.7	6.7	0.3	3.7	1.1
0.8	0.2	2.0	0.1	0.5	0.1
0.2	0.6	3.9	0.1	1.4	0.3
*	*	3.9	0.1	1.1	0.4
1.9	0.4	46.1	3.3	4.9	1.9
8.4	1.7	66.9	1.9	6.4	1.3
3.9	2.8	110.5	2.8	7.9	1.7
0.1	—	6.6	0.1	1.3	0.3
*	*	11.3	0.4	0.8	0.2
*	0.4	13.0	0.9	0.7	0.2
13.5	4.0	165.7	11.8	42.9	12.7
21.0	5.6	221.3	12.0	54.9	19.4
14.8	9.5	269.4	10.5	60.5	19.7
2.0	0.5	20.3	1.7	5.0	1.6
3.8	0.1	34.4	2.2	6.5	2.3
1.0	1.4	38.4	1.6	8.3	2.3
0.2	0.2	3.9	0.2	1.0	0.4
0.2	0.1	4.8	0.2	1.0	0.5
*	*	5.8	0.2	1.4	0.5
0.2	0.1	4.2	0.1	1.2	0.4
0.6	0.3	6.0	0.2	1.3	0.5
0.6	0.3	6.2	0.1	1.1	0.9



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net (d)	New building work
			£ million	£ million
<b>ORDER XII Metal goods not elsewhere specified (continued)</b>				
393	Bolts, nuts, screws, rivets, etc.	1977	9.7	0.9
		1978	13.7	1.3
		1979	19.0	1.0
394	Wire and wire manufactures	1977	21.1	2.5
		1978	31.9	3.0
		1979	34.0	4.8
395	Cans and metal boxes	1977	19.4	2.0
		1978	23.2	3.8
		1979	21.6	1.1
396	Jewellery and precious metals	1977	10.8	2.2
		1978	11.1	2.1
		1979	11.5	1.4
399 (1)	Metal furniture	1977	5.7	0.9
		1978	10.7	2.1
		1979	11.9	1.0
399 (5)	Drop forgings, etc.	1977	12.2	1.1
		1978	9.8	1.3
		1979	12.7	1.0
399 (6)(7)	Metal hollow-ware	1977	4.9	0.4
		1978	9.7	1.4
		1979	7.1	0.8
399 (2)(3)(4)(8)(9)(10)(11)(12)	Miscellaneous metal manufacture	1977	98.1	10.8
		1978	128.0	15.3
		1979	167.1	24.2
<b>ORDER XIII Textiles</b>				
411	Production of man-made fibres	1977	178.3	18.1
		1978	232.7	25.6
		1979	275.7	33.0
412	Spinning and doubling on the cotton and flax systems	1977	10.8	0.5
		1978	16.8	2.1
		1979	16.1	1.0
413	Weaving of cotton, linen and man-made fibres	1977	14.3	1.5
		1978	22.3	1.5
		1979	19.8	2.1
414	Woollen and worsted	1977	35.9	5.7
		1978	36.8	6.3
		1979	38.6	5.6
415	Jute	1977	5.1	0.4
		1978	7.7	*
		1979	8.8	1.1

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
0.2	0.4	8.4	0.9	2.0	0.6
0.2	0.4	12.2	0.7	2.1	1.0
*	*	18.8	1.5	1.4	0.6
0.3	0.3	17.5	0.8	2.5	0.7
6.1	0.5	21.9	0.8	3.1	0.9
1.0	0.5	27.4	0.8	3.2	1.1
3.3	0.2	13.3	1.0	2.3	0.5
*	*	18.7	1.2	1.9	0.4
1.1	0.1	19.1	0.7	1.7	0.6
0.7	0.1	7.3	0.5	2.1	0.9
1.2	0.6	7.8	0.4	2.5	1.4
0.6	0.5	8.7	0.2	2.4	0.9
0.1	—	3.6	0.2	1.9	0.7
*	*	7.1	0.1	3.3	1.6
2.1	0.3	7.8	0.4	3.1	1.4
0.3	0.1	10.6	0.3	0.8	0.2
0.6	0.1	8.2	0.8	0.8	0.2
0.1	—	11.1	0.1	1.0	0.4
0.2	—	3.6	0.5	1.7	0.3
0.2	0.1	7.2	0.4	1.9	0.5
0.3	1.8	6.1	0.1	2.3	0.5
6.0	2.1	73.0	5.6	22.4	6.4
7.5	3.2	93.0	5.0	30.5	10.1
7.9	4.3	120.0	4.8	34.6	10.5
5.1	7.6	160.2	14.4	24.2	7.3
16.8	7.6	191.8	13.4	28.3	8.9
8.3	8.1	234.0	13.8	33.0	10.7
0.1	0.1	23.0	0.6	1.1	0.1
0.2	0.1	26.2	0.9	0.9	0.2
—	—	47.4	0.6	1.1	0.3
0.1	0.2	11.0	1.7	1.5	0.5
1.2	0.2	13.8	1.2	1.7	0.6
0.4	0.4	14.4	0.6	2.0	0.7
0.5	0.4	13.5	1.7	1.5	0.5
1.0	1.0	20.9	1.2	1.8	0.7
0.5	0.9	18.8	1.8	1.9	0.8
1.1	1.7	30.7	2.6	4.0	1.3
1.4	2.1	30.8	2.6	4.5	1.5
1.4	2.4	33.1	2.4	5.1	1.8
0.1	0.4	5.0	0.2	0.3	0.1
*	*	7.2	0.7	0.5	0.1
0.2	—	7.3	0.1	0.4	0.1



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders, or minimum list heading (c)	Industry	Year	Total net	New building work
			(d)	
			£ million	£ million
<b>ORDER XIII</b>	<b>Textiles (continued)</b>			
416	Rope, twine and net	1977	1.1	0.1
		1978	2.0	0.1
		1979	1.6	0.5
417 (1)	Hosiery and other knitted goods	1977	25.1	1.5
		1978	33.8	2.8
		1979	41.4	2.9
417 (2)	Warp knitting	1977	7.6	0.3
		1978	6.6	0.8
		1979	6.6	0.6
418	Lace	1977	1.0	0.2
		1978	1.5	*
		1979	1.6	-
419	Carpets	1977	12.0	2.5
		1978	23.4	3.1
		1979	17.7	2.8
421	Narrow fabrics	1977	4.9	0.4
		1978	6.2	1.4
		1979	6.7	1.1
422 (1)	Household textiles and handkerchiefs	1977	3.2	0.7
		1978	7.6	1.5
		1979	12.5	3.8
422 (2)	Canvas goods and sacks and other made-up textiles	1977	2.3	0.5
		1978	2.6	0.5
		1979	1.7	0.1
423	Textile finishing	1977	19.3	1.8
		1978	24.2	2.4
		1979	33.6	4.8
429 (1)	Asbestos	1977	6.7	0.6
		1978	8.8	0.6
		1979	10.3	0.5
429 (2)	Miscellaneous textile industries	1977	4.6	0.4
		1978	5.0	0.4
		1979	6.7	1.8
<b>ORDER XIV</b>	<b>Leather, leather goods and fur</b>			
431	Leather (tanning and dressing) and fellmongery	1977	8.4	1.4
		1978	8.7	1.3
		1979	8.0	1.1
432	Leather goods	1977	2.2	0.2
		1978	4.3	1.3
		1979	3.6	0.2
433	Fur	1977	0.7	-
		1978	1.4	0.1
		1979	2.2	1.1

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
0.1	-	1.2	0.4	0.4	0.2
-	-	1.7	0.2	0.5	0.2
0.2	0.3	1.1	0.1	0.5	0.3
1.4	1.2	22.9	2.6	4.4	1.4
2.6	2.7	30.0	2.8	5.8	1.9
2.1	1.7	39.4	5.7	6.5	2.1
-	-	8.7	1.8	0.7	0.3
1.8	-	4.3	0.7	0.6	0.2
*	*	5.2	0.4	0.8	0.2
-	-	0.6	-	0.3	0.1
*	*	1.3	0.1	0.4	0.2
-	-	1.2	-	0.6	0.2
0.6	2.4	10.5	0.9	2.5	0.8
4.5	0.8	15.9	1.4	2.9	0.8
0.4	0.9	13.3	0.4	3.4	0.9
-	0.3	4.2	0.1	0.9	0.3
0.4	0.5	4.7	0.2	0.8	0.4
0.4	0.1	5.1	0.4	0.9	0.3
0.3	0.3	2.0	0.1	1.0	0.3
*	*	3.7	0.1	1.7	0.5
0.5	0.4	7.3	0.1	2.2	0.8
0.2	0.2	1.3	0.1	1.0	0.3
0.2	-	1.3	0.1	1.3	0.5
*	*	1.2	0.1	1.7	0.7
0.3	0.2	16.5	0.8	2.2	0.6
1.7	0.1	19.2	1.2	2.8	0.7
1.0	0.1	26.7	0.9	3.0	0.9
0.1	0.1	5.6	0.7	1.6	0.3
0.4	-	6.9	-	1.3	0.3
-	-	8.7	0.1	1.6	0.4
0.2	0.1	3.5	0.1	0.8	0.2
*	*	3.9	-	0.8	0.1
0.2	-	3.7	0.1	1.3	0.2
0.9	0.2	7.5	0.3	2.9	1.0
1.5	0.3	8.4	0.4	3.9	1.5
1.8	1.7	8.9	0.3	4.1	1.4
0.6	0.2	5.8	0.3	1.6	0.5
0.8	0.1	5.6	0.2	2.0	0.7
1.3	1.7	6.3	0.2	1.8	0.6
0.2	-	1.2	-	1.1	0.4
0.4	0.2	2.0	0.2	1.6	0.7
0.2	-	2.2	0.1	1.7	0.6
0.1	-	0.5	-	0.2	0.1
0.3	-	0.8	-	0.3	0.1
0.3	-	0.4	-	0.6	0.2



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net (d)	New building work
			£ million	£ million
<b>ORDER XV</b>	<b>Clothing and footwear</b>	1977	46.0	5.1
		1978	66.7	10.6
		1979	79.2	14.1
441	Weatherproof outerwear	1977	3.0	0.1
		1978	3.4	0.5
		1979	3.4	0.8
442	Men's and boys' tailored outerwear	1977	8.1	0.8
		1978	10.2	0.9
		1979	12.2	1.9
443	Women's and girls' tailored outerwear	1977	5.3	0.9
		1978	7.1	1.4
		1979	7.9	0.5
444	Overalls and men's shirts, underwear, etc.	1977	6.6	0.7
		1978	8.3	1.0
		1979	11.8	1.3
445	Dresses, lingerie, infants' wear, etc.	1977	10.0	0.8
		1978	16.8	2.5
		1979	19.3	3.0
446	Hats, caps and millinery	1977	0.8	0.1
		1978	0.5	*
		1979	0.7	0.2
449 (1)(3)(4)	Corsets and miscellaneous dress industries	1977	3.5	0.4
		1978	4.9	1.1
		1979	7.8	3.6
449 (2)	Gloves	1977	1.2	0.7
		1978	3.2	*
		1979	2.9	1.2
450	Footwear	1977	7.5	0.6
		1978	12.3	1.4
		1979	13.2	1.6
<b>ORDER XVI</b>	<b>Bricks, pottery, glass, cement, etc.</b>	1977	211.4	28.9
		1978	264.0	36.6
		1979	342.4	45.0
461 (1)	Refractory goods	1977	12.8	1.3
		1978	17.5	*
		1979	19.7	1.9
461 (2)	Building bricks and non-refractory goods	1977	21.9	3.3
		1978	21.2	3.8
		1979	40.9	4.8
462	Pottery	1977	23.7	5.7
		1978	23.3	5.1
		1979	20.5	4.1
463	Glass	1977	47.9	8.3
		1978	78.3	12.4
		1979	86.9	10.0

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
3.8	2.1	31.4	1.7	15.5	5.7
5.3	4.5	44.0	1.6	19.9	6.9
6.2	2.8	48.5	2.6	24.9	9.1
0.5	0.1	2.0	0.1	1.0	0.4
0.2	0.2	2.1	—	1.3	0.4
0.2	0.3	2.2	0.2	1.3	0.6
0.8	0.4	6.0	0.4	2.2	0.8
0.2	0.2	7.6	0.3	3.0	1.1
0.9	0.4	9.0	0.4	2.5	1.3
0.5	—	3.1	0.1	1.6	0.6
0.6	0.4	3.9	0.1	2.5	0.8
0.7	0.1	4.8	0.2	3.1	0.9
0.5	0.3	4.9	0.3	1.8	0.7
0.5	0.4	6.1	0.4	2.2	0.8
0.5	0.1	8.3	0.6	3.7	1.3
0.6	0.6	6.6	0.4	4.7	1.7
2.4	2.1	10.8	0.4	5.6	2.0
2.2	0.2	10.4	0.7	6.8	2.2
—	—	0.5	—	0.2	0.1
*	*	0.5	—	0.3	0.1
—	—	0.3	—	0.4	0.2
0.2	0.2	2.5	0.1	1.2	0.4
0.5	—	2.6	0.1	1.3	0.4
0.2	1.3	3.8	0.3	2.7	0.9
—	—	0.3	—	0.3	0.1
*	*	1.4	—	0.3	0.1
0.1	0.1	1.6	—	0.4	0.3
0.7	0.5	5.5	0.3	2.5	0.9
0.8	0.8	9.0	0.3	3.4	1.2
1.4	0.3	8.1	0.2	4.0	1.4
7.5	8.1	164.2	5.7	31.1	6.2
10.6	3.5	194.8	5.3	38.6	7.7
11.9	3.3	256.6	6.3	47.8	9.3
0.9	0.2	10.0	0.1	1.2	0.3
*	*	14.9	0.3	1.3	0.4
0.2	0.1	16.5	0.1	1.8	0.5
0.3	0.5	16.9	0.3	2.6	0.4
0.9	1.0	15.9	0.7	2.9	0.6
1.3	1.2	35.2	1.0	2.6	0.8
1.5	0.3	15.2	0.2	2.5	0.7
1.2	0.3	16.0	0.5	2.5	0.7
0.6	0.2	14.8	0.3	2.5	1.0
0.9	6.2	44.6	2.7	3.8	0.9
2.2	—	61.7	1.0	4.4	1.4
4.1	0.4	70.5	0.9	4.8	1.2



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net (d)	New building work
			£ million	£ million
<b>ORDER XVI Bricks, pottery, glass, cement, etc. (continued)</b>				
464	Cement	1977	30.7	3.6
		1978	35.5	5.3
		1979	51.1	11.2
469 (1)	Abrasives	1977	3.5	0.2
		1978	4.3	*
		1979	5.3	0.5
469 (2)	Miscellaneous building materials and mineral products	1977	70.9	6.5
		1978	83.9	7.9
		1979	118.0	12.5
<b>ORDER XVII Timber, furniture, etc.</b>				
471	Timber	1977	48.6	10.1
		1978	49.3	11.3
		1979	67.2	19.3
472	Furniture and upholstery	1977	30.7	3.8
		1978	45.6	8.4
		1979	72.0	14.4
473	Bedding, etc.	1977	5.4	0.6
		1978	8.1	1.4
		1979	7.9	1.5
474	Shop and office fitting	1977	6.7	0.3
		1978	8.5	0.6
		1979	10.6	1.3
475	Wooden containers and baskets	1977	4.7	0.5
		1978	4.8	0.5
		1979	8.1	1.2
479	Miscellaneous wood and cork manufactures	1977	7.6	1.4
		1978	10.5	2.2
		1979	11.2	3.3
<b>ORDER XVIII Paper, printing and publishing</b>				
481	Paper and board	1977	283.9	23.8
		1978	371.7	32.8
		1979	499.5	75.7
482 (1)	Cardboard boxes, cartons and fibre-board packing cases	1977	35.5	2.8
		1978	50.6	3.9
		1979	52.9	4.8
482 (2)	Packaging products of paper and associated materials	1977	17.3	1.2
		1978	15.4	2.7
		1979	24.2	7.9

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
0.5	0.2	22.4	0.2	5.1	0.4
2.5	0.1	23.6	0.4	5.6	0.9
*	*	33.6	*	7.0	0.5
0.1	-	2.3	-	1.4	0.3
*	*	2.8	-	1.3	0.4
*	*	3.8	*	1.9	0.6
3.3	0.7	52.8	2.2	14.5	3.2
3.0	1.7	59.9	2.4	20.6	3.3
4.9	1.2	82.2	2.9	27.2	4.7
7.3	5.3	60.5	3.4	37.6	9.9
12.9	4.3	67.0	5.0	45.0	12.9
16.7	5.6	94.9	6.8	55.4	18.6
3.0	3.6	28.3	1.7	16.5	4.0
2.9	2.8	28.4	2.7	17.4	5.1
4.2	1.8	34.1	3.7	23.5	8.4
1.9	1.3	20.0	1.2	10.2	2.8
5.7	0.5	22.9	1.3	14.7	4.3
8.9	2.4	41.1	1.7	17.2	5.5
0.2	0.1	2.5	0.1	3.0	0.8
0.9	0.2	3.2	0.2	3.8	0.8
0.6	0.5	4.6	0.4	3.4	1.3
1.1	0.2	3.0	0.1	3.8	1.2
2.1	0.3	3.2	0.1	4.4	1.3
1.0	0.2	4.7	0.6	6.2	1.8
1.0	-	2.1	0.1	1.7	0.5
0.5	0.2	2.7	0.3	2.4	0.7
1.3	-	4.4	0.2	2.1	0.7
0.1	0.1	4.6	0.2	2.4	0.6
0.8	0.3	6.6	0.4	2.3	0.7
0.7	0.7	6.0	0.2	3.0	0.9
11.5	7.2	240.1	17.6	47.5	14.1
13.8	7.9	317.9	23.4	58.3	19.8
24.6	12.2	388.5	23.9	70.2	23.4
0.5	1.0	47.4	1.2	2.9	0.7
0.5	0.8	65.7	1.0	2.9	0.8
2.2	0.6	97.6	4.1	4.4	1.2
1.6	0.4	29.6	1.7	5.0	1.3
3.8	0.9	41.0	1.8	6.4	1.9
1.2	0.7	45.5	2.4	6.8	2.3
0.9	0.2	14.7	0.5	1.6	0.5
0.3	0.4	14.9	2.9	1.5	0.6
0.1	0.5	16.1	0.6	2.0	0.8



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net (d)	New building work
			£ million	£ million
<b>ORDER XVIII Paper, printing and publishing (continued)</b>				
483	Manufactured stationery	1977	16.1	1.4
		1978	22.5	2.0
		1979	32.5	1.9
484 (1)	Wallcoverings	1977	5.2	1.6(f)
		1978	5.3	0.8
		1979(g)	13.0	0.9
484 (2)	Miscellaneous manufactures of paper and board	1977	15.1	2.3
		1978	20.5	2.8
		1979	25.5	5.9
485, 486	Printing, publishing of newspapers and periodicals	1977	43.7	3.9
		1978	62.1	7.3
		1979	85.8	14.4
489	General printing and publishing	1977	98.2	5.6
		1978	121.5	5.9
		1979	141.6	14.2
<b>ORDER XIX Other manufacturing industries</b>				
491	Rubber	1977	65.0	5.8
		1978	63.7	7.9
		1979	66.4	10.1
492	Linoleum, plastics floorcovering, leather-cloth, etc.	1977	18.6	5.7
		1978	12.1	2.7
		1979(g)	10.6	1.5
493	Brushes and brooms	1977	2.9	0.3
		1978	4.2	0.3
		1979	3.5	0.3
494 (1)(2)	Toys, games and childrens carriages	1977	16.3	3.1
		1978	21.0	2.5
		1979	18.3	4.1
494 (3)	Sports equipment	1977	4.4	0.6
		1978	4.5	0.4
		1979	3.4	0.3
495	Miscellaneous stationers goods	1977	4.6	0.3
		1978	7.1	*
		1979	8.0	1.0
496	Plastic products	1977	89.1	9.1
		1978	110.5	10.5
		1979	138.3	23.0
499 (1)	Musical instruments	1977	1.1	0.1
		1978	1.2	*
		1979	2.3	0.9
499 (2)	Miscellaneous manufacturing industries	1977	5.5	1.3
		1978	6.4	0.6
		1979	6.0	0.6

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
0.6	0.8	13.1	1.1	4.0	1.3
1.1	0.1	19.0	1.8	4.0	1.6
1.0	0.3	27.4	1.3	5.9	2.1
(f)	0.1	3.6	0.2	0.4	0.1
*	*	5.1	0.6	0.5	0.2
0.7	0.6	11.4	0.3	1.1	0.2
0.2	0.1	12.1	0.2	1.2	0.3
*	*	16.5	0.3	1.6	0.6
0.5	—	16.5	0.3	3.7	0.8
3.3	3.0	33.8	3.5	12.5	3.2
3.4	2.8	45.3	2.6	15.4	3.8
11.4	2.2	52.4	3.1	17.9	5.0
4.4	1.6	85.8	9.2	19.9	6.7
3.9	2.2	110.4	12.4	26.0	10.3
7.5	7.3	121.6	11.8	28.4	11.0
9.1	3.5	163.5	6.5	25.3	7.1
15.0	8.7	185.0	7.0	29.6	8.9
11.2	8.9	199.5	9.8	34.0	11.0
2.8	1.2	54.4	1.8	6.3	1.4
3.9	5.7	54.6	1.9	7.2	2.1
2.2	4.0	55.5	2.7	7.5	2.2
0.1	—	12.4	0.2	0.9	0.3
0.1	0.5	9.7	0.3	0.6	0.3
0.1	0.1	8.6	0.2	0.9	0.2
—	0.1	2.4	0.2	0.7	0.3
0.4	0.2	3.1	0.1	0.9	0.3
0.2	0.4	2.8	0.3	1.3	0.4
1.3	0.1	10.7	0.3	2.1	0.6
2.6	0.3	15.2	0.5	2.3	0.7
0.5	0.5	12.8	0.6	2.9	0.9
0.3	0.1	2.9	0.1	1.0	0.3
0.6	0.3	3.2	0.3	1.4	0.5
0.3	—	2.4	0.4	1.2	0.4
0.1	0.1	3.8	0.1	0.9	0.3
*	*	6.0	0.3	1.3	0.5
*	*	6.7	0.1	1.2	0.7
4.0	1.6	73.2	3.7	11.3	3.3
6.2	0.8	88.3	3.4	13.5	3.7
5.0	2.5	106.2	5.2	17.4	5.6
—	—	0.7	—	0.5	0.1
*	*	0.7	—	0.6	0.2
*	*	1.2	0.1	0.5	0.2
0.5	0.3	3.0	0.1	1.6	0.5
1.0	0.5	4.2	0.2	1.8	0.6
2.9	1.3	3.3	0.2	1.1	0.4



**TABLE 2 Capital expenditure, 1977-1979**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water (a)(b)**

Standard Industrial Classification Orders or minimum list heading (c)	Industry	Year	Total net	New building
			(d)	work
			£ million	£ million
ORDER XX 500	Construction	1977	509.1	59.5
		1978	587.4	53.9
		1979	..	..
ORDER XXI	Gas, electricity and water	1977	1,210.0	337.7
		1978	1,356.4	343.7
		1979	1,604.8	444.1
601	Gas	1977	190.6	6.2
		1978	315.6	12.6
		1979	395.3	25.7
602	Electricity	1977	835.4	183.8
		1978	860.2	176.6
		1979	984.6	226.7
603	Water supply	1977	184.0	147.7
		1978	180.6	154.5
		1979	224.9	191.7
<b>Energy industries (e)</b>		1977	1,431.2	289.7
		1978	1,741.3	321.5
		1979	2,157.8	493.5
101	Coal mining	1977	323.5	90.6
		1978	409.4	126.6
		1979	574.1	220.0
104	Petroleum and natural gas	1977	1,943.6	1,240.3
		1978	2,124.7	1,217.8
		1979	2,135.2	1,209.9
262	Mineral oil refining	1977	72.1	5.8
		1978	148.1	4.4
		1979	193.6	20.2
263	Lubricating oils and greases	1977	9.6	3.3
		1978	8.0	1.3
		1979	10.2	0.9
601	Gas	1977	190.6	6.2
		1978	315.6	12.6
		1979	395.3	25.7
602	Electricity	1977	835.4	183.8
		1978	860.2	176.6
		1979	984.6	226.7

(a) Including estimates for establishments not making satisfactory returns, non-response, and establishments employing less than 20 persons.

(b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.

(c) References to Orders are to those in the Standard Industrial Classification (revised 1968). Industry code numbers indicate the minimum list heading (MLH) and, if appropriate, a sub-division of a minimum list heading. For industries covering two or more sub-divisions, the sub-divisions are given in brackets.

Land and existing buildings		Plant and machinery		Vehicles	
Acquisitions	Disposals	Acquisitions	Disposals	Acquisitions	Disposals
£ million	£ million	£ million	£ million	£ million	£ million
33.9	15.7	318.8	77.1	263.5	73.7
26.6	17.0	436.6	118.6	293.0	87.1
..	..	..	..	..	..
8.6	8.5	864.2	8.6	21.0	4.4
25.4	16.0	977.8	6.0	35.4	4.1
19.9	23.1	1,141.6	5.5	33.1	5.3
1.6	3.4	185.5	1.9	4.6	2.0
18.8	6.1	272.9	1.0	19.3	1.0
2.4	6.0	357.3	0.5	17.9	1.5
4.3	3.9	647.2	6.5	12.2	1.7
3.5	7.9	683.2	4.8	11.9	2.3
14.0	14.4	755.1	4.8	10.8	2.8
2.7	1.2	31.5	0.2	4.2	0.7
3.1	2.0	21.7	0.2	4.2	0.8
3.5	2.7	29.2	0.2	4.4	1.0
9.3	13.9	1,141.1	10.8	20.2	4.3
25.1	46.0	1,418.7	9.5	35.5	4.1
40.7	44.6	1,645.1	6.6	35.0	5.3
2.8	—	231.9	2.2	0.5	—
2.6	31.9	313.6	1.8	0.4	0.1
23.2	24.1	355.1	0.7	0.7	0.1
0.8	58.1	757.7	14.5	17.4	0.1
1.9	—	880.3	0.4	26.5	1.4
0.4	24.5	919.9	20.9	56.2	5.8
0.2	6.5	71.8	0.2	1.1	0.2
0.1	—	*	*	1.5	0.2
*	*	172.0	0.5	2.0	0.2
0.4	0.1	4.7	—	1.8	0.4
0.1	0.1	*	*	2.4	0.5
*	*	5.6	0.1	3.6	0.7
1.6	3.4	185.5	1.9	4.6	2.0
18.8	6.1	272.9	1.0	19.3	1.0
2.4	6.0	357.3	0.5	17.9	1.5
4.3	3.9	647.2	6.5	12.2	1.7
3.5	7.9	683.2	4.8	11.9	2.3
14.0	14.4	755.1	4.8	10.8	2.8

(d) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

(e) Excluding MLH 104 - Petroleum and natural gas.

(f) Included with new building work.

(g) Figures are affected by significant reclassifications of establishments.



**TABLE 3** Summary of revisions to Provisional Results, 1975-1977  
By Industry and Order: based on absolute percentages (a)

	Average 1975-1977					
	Mean revision		50 per cent of the revisions were below		80 per cent of the revisions were below	
	Industry	Order	Industry	Order	Industry	Order
Gross output	6.4	4.1	5.1	4.2	9.8	5.7
Cost of purchases	8.6	5.9	6.0	5.1	12.2	8.9
Net output	7.5	4.6	5.1	4.2	11.0	6.2
Gross value added (b)	8.8	4.6	5.3	2.7	11.5	6.1
Gross value added per head (b)	7.3	3.9	3.6	2.0	9.4	4.2
Employment (c)						
Total	4.4	1.9	3.0	1.6	7.3	3.4
Operatives	5.1	2.0	3.4	1.5	8.2	3.6
Others (d)	6.0	3.0	4.8	2.8	8.4	4.8
Wages and salaries						
Operatives	5.4	2.4	4.1	2.3	8.3	3.9
Others (d)	6.8	3.7	5.1	3.4	9.7	5.9

(a) Revisions between the compilation of provisional and final results may be attributed to a number of factors: higher response at the later stage; longer preparation time for final results allowing more rigorous credibility checking of aggregates and returns; better estimation methods which are possible for final results.

An indication of the size of revisions is given in this table which is based on a comparison of provisional and final results of the censuses for 1975-1977. The percentage revision (disregarding the sign) between the provisional and final 1975 results was calculated for each industry and the mean revision obtained. The mean revision for each of the headings was similarly obtained for 1976 and 1977. The arithmetical averages of the mean revisions for the three years are given in the table. The 50 per cent and 80 per cent limits for each heading for each of the three years were similarly averaged. The same procedure was used for the Orders to obtain the corresponding statistics at SIC Order level.

(b) Figures for 1976 and 1977 only.

(c) Average number employed (full and part-time) during the year (including working proprietors).

(d) Administrative, technical and clerical employees.



**TABLE 4 Operating ratios, 1979 (a)**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water**

Standard Industrial Classification minimum list heading	Industry	Gross output per head	Net output per head	Gross value added per head	Gross value added as a percentage of gross output
		£	£	£	%
101	Coal mining	11,917	9,166	8,784	74
102	Stone and slate quarrying and mining	38,192	24,370	15,007	39
103	Chalk, clay, sand and gravel extraction	26,741	18,874	13,162	49
104	Petroleum and natural gas	..	..	..	..
109 (1)(2)(3)(4)	Miscellaneous mining and quarrying	33,691	20,771	16,734	50
211	Grain milling	76,373	16,612	12,644	17
212	Bread and flour confectionery	12,673	5,470	4,926	39
213	Biscuits	15,394	6,160	5,121	33
214	Bacon curing, meat and fish products	26,551	7,743	6,020	23
215	Milk and milk products	61,703	12,732	10,796	17
216	Sugar	64,094	18,688	14,746	23
217	Cocoa, chocolate and sugar confectionery	26,354	10,525	8,181	31
218	Fruit and vegetable products	28,694	10,449	8,199	29
219	Animal and poultry foods	90,814	18,298	13,933	15
221	Vegetable and animal oils and fats	136,890	13,764	9,207	7
229 (1)	Margarine	66,676	15,827	12,991	19
229 (2)	Starch and miscellaneous foods	45,460	14,470	11,309	25
231	Brewing and malting	58,768	18,301	16,116	27
232	Soft drinks	35,805	14,763	12,928	36
239 (1)	Spirit distilling and compounding	70,971	26,251	21,322	30
239 (2)	British wines, cider and perry	33,167	12,357	9,484	29
240	Tobacco	110,899	18,950	16,760	15
261	Coke ovens and manufactured fuel	48,409	11,282	9,348	19
262	Mineral oil refining	514,973	119,542	114,916	22
263	Lubricating oils and greases	69,946	24,409	21,459	31
271 (1)	Inorganic chemicals	45,394	16,676	13,419	30
271 (2)	Organic chemicals	89,570	21,782	17,340	19
271 (3)	Miscellaneous chemicals	40,167	16,050	13,438	33
272	Pharmaceutical chemicals and preparations	29,941	17,119	14,545	49
273	Toilet preparations	23,532	12,105	7,282	31
274	Paint	32,779	15,006	11,567	35

Ratio of gross output to stocks (b)	Wages and salaries as a percentage of gross value added	Ratio of operatives to ATC	Wages and salaries per ATC	Wages and salaries per operative	Net capital expenditure per head	Net capital expenditure as a percentage of gross value added
	%		£	£	£	%
7.1	60	9.4	6,500	5,159	2,019	23
22.1	31	4.0	4,828	4,787	3,189	21
15.5	35	3.3	5,420	4,420	2,817	21
..	..	..	..	..	..	..
12.5	37	4.0	6,761	6,153	2,427	15
9.8	39	2.8	5,278	4,913	2,046	16
29.5	65	7.5	3,900	3,126	379	8
9.6	60	5.1	4,096	2,868	713	14
9.7	58	4.4	4,775	3,264	889	15
14.0	41	3.7	4,337	4,465	1,933	18
9.1	39	2.7	7,894	4,878	3,222	22
6.6	46	3.0	5,140	3,347	1,043	13
4.0	47	3.7	5,459	3,468	827	10
13.0	37	1.4	5,561	5,123	1,760	13
11.0	56	2.3	6,045	4,865	2,638	29
19.9	37	3.1	5,694	4,486	973	7
5.7	36	2.6	5,059	3,672	1,431	13
9.3	33	2.0	5,458	5,332	2,979	18
8.0	30	3.0	4,621	3,664	1,130	9
1.6	21	2.9	5,868	3,986	1,677	8
3.1	48	1.5	4,409	4,635	1,793	19
11.1	30	2.8	6,320	4,689	1,459	9
3.0	57	5.6	6,306	5,176	1,773	19
5.9	6	2.1	7,714	6,266	11,420	10
5.6	24	1.1	5,548	5,096	1,429	7
6.6	44	1.8	6,553	5,584	4,629	34
6.8	37	1.6	7,342	5,758	6,306	36
4.6	43	1.2	6,243	5,293	4,362	25
3.6	33	1.0	5,450	4,028	2,109	14
4.4	54	1.3	4,913	3,239	1,323	18
4.7	41	1.0	5,279	4,342	966	8



**TABLE 4 Operating ratios, 1979 (a)**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water**

Standard Industrial Classification minimum list heading	Industry	Gross output per head	Net output per head	Gross value added per head	Gross value added as a percentage of gross output
		£	£	%	%
275	Soap and detergents	52,651	19,442	15,095	29
276	Synthetic resins and plastics materials and synthetic rubber	43,403	14,004	11,746	27
277	Dyestuffs and pigments	38,724	17,241	15,257	39
278	Fertilizers	51,596	21,799	17,589	34
279 (1)	Polishes	34,934	15,064	10,661	31
279 (2)	Formulated adhesives, gelatine, etc.	29,511	11,321	8,220	28
279 (3)	Explosives and fireworks	18,951	7,799	6,936	37
279 (4)	Formulated pesticides, etc.	54,699	22,256	19,131	35
279 (5)	Printing ink	27,947	13,205	11,664	42
279 (6)	Surgical bandages, etc.	17,675	9,376	7,691	44
279 (7)	Photographic chemical materials	29,786	10,275	8,343	28
311	Iron and steel (general)	29,314	8,095	6,647	23
312	Steel tubes	22,854	8,216	6,828	30
313	Iron castings, etc.	14,386	7,654	6,567	46
321	Aluminium and aluminium alloys	32,832	9,822	8,570	26
322	Copper, brass and other copper alloys	30,144	10,089	8,899	30
323	Miscellaneous base metals	71,753	15,945	13,992	20
331	Agricultural machinery (except tractors)	20,926	9,149	7,766	37
332	Metal-working machine tools	16,414	8,697	7,607	46
333 (1)	Pumps	18,374	9,358	8,088	44
333 (2)	Valves	16,209	9,171	8,104	50
333 (3)	Compressors and fluid power equipment	17,897	8,851	7,573	42
334	Industrial engines	20,493	9,367	8,609	42
335	Textile machinery and accessories	13,506	6,922	5,884	44
336	Construction and earth-moving equipment	26,038	9,643	8,093	31
337	Mechanical handling equipment	18,084	8,388	7,130	39
338	Office machinery	16,254	9,890	8,918	55
339 (1)	Mining machinery	27,341	10,046	8,994	33
339 (2)	Printing, bookbinding and paper goods machinery	17,824	10,117	8,554	48
339 (3)	Refrigerating machinery, space-heating, ventilating and air-conditioning equipment	19,056	9,715	8,365	44

Ratio of gross output to stocks (b)	Wages and salaries as a percentage of gross value added	Ratio of operatives to ATC	Wages and salaries per ATC	Wages and salaries per operative	Net capital expenditure per head	Net capital expenditure as a percentage of gross value added
	%		£	£	£	%
7.3	30	2.3	5,695	4,125	1,504	10
6.3	49	1.7	6,561	5,287	3,461	29
3.0	40	1.8	7,198	5,524	3,564	23
8.2	36	1.6	7,104	5,940	4,044	23
6.0	41	1.1	5,136	3,915	1,374	13
5.9	55	1.2	4,793	4,374	1,051	13
2.4	65	3.2	5,994	4,094	1,376	20
4.0	24	1.1	5,199	4,099	1,049	5
5.5	48	1.0	5,974	5,249	999	9
4.1	43	3.1	4,417	2,961	754	10
4.1	72	1.2	6,819	5,335	1,273	15
4.0	82	2.7	5,823	5,285	933	14
3.6	65	2.3	4,946	4,228	517	8
7.4	73	3.9	5,464	4,686	859	13
5.6	58	3.2	5,741	4,752	1,235	14
5.5	51	3.0	5,640	4,176	939	11
3.9	35	2.4	5,627	4,633	1,154	8
3.3	54	2.1	4,818	4,099	691	9
2.8	60	1.8	5,204	4,290	700	9
3.1	57	1.1	4,928	4,299	496	6
2.8	56	1.7	4,923	4,338	793	10
2.8	59	1.5	4,981	4,199	837	11
3.2	55	2.0	5,225	4,467	1,006	12
3.0	72	2.4	5,082	3,994	412	7
2.7	58	2.0	5,268	4,429	948	12
3.0	67	1.7	5,076	4,714	528	7
1.8	58	1.1	5,782	4,648	547	6
3.7	53	1.9	5,384	4,451	600	7
3.5	56	1.7	5,225	4,560	618	7
5.1	56	1.9	5,107	4,569	581	7



**TABLE 4 Operating ratios, 1979 (a)**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water**

Standard Industrial Classification minimum list heading	Industry	Gross output per head	Net output per head	Gross value added per head	Gross value added as a percentage of gross output
		£	£	£	%
339 (5)	Scales and weighing machinery and portable power tools	19,195	10,521	9,054	47
339 (7)	Food and drink processing machinery and packaging and bottling machinery	16,653	8,171	6,937	42
339 (9)	Miscellaneous (non-electrical) machinery	18,077	8,521	7,176	40
341	Industrial (including process) plant and steelwork	20,490	11,157	9,560	47
342	Ordnance and small arms	24,275	10,800	10,283	42
349 (1)	Ball, roller, plain and other bearings	12,779	6,878	6,130	48
349 (2)	Precision chains and other mechanical engineering	12,836	7,858	6,855	53
351	Photographic and document copying equipment	26,533	9,902	8,766	33
352	Watches and clocks	9,734	5,835	5,254	54
353	Surgical instruments and appliances	12,787	6,991	6,051	47
354	Scientific and industrial instruments and systems	14,752	8,343	7,173	49
361	Electrical machinery	15,084	7,582	6,725	45
362	Insulated wires and cables	29,360	9,147	7,999	27
363	Telegraph and telephone apparatus and equipment	11,826	7,763	7,172	61
364	Radio and electronic components	12,740	7,158	6,256	49
365 (1)	Gramophone records and tape recordings	25,098	17,666	10,207	41
365 (2)	Broadcast receiving and sound reproducing equipment	24,268	6,599	5,262	22
366	Electronic computers	47,401	24,288	22,713	48
367	Radio, radar and electronic capital goods	18,088	9,000	7,836	43
368	Electrical appliances primarily for domestic use	20,319	8,048	6,532	32
369 (1)	Electrical equipment for motor vehicles, cycles and aircraft	11,943	7,108	6,387	53
369 (2)	Primary and secondary batteries	22,093	8,410	7,074	32
369 (4)	Electric lamps, electric light fittings, wiring accessories, etc.	14,856	7,311	6,484	44
370	Shipbuilding and marine engineering	12,648	6,902	6,394	51

Ratio of gross output to stocks (b)	Wages and salaries as a percentage of gross value added	Ratio of operatives to ATC	Wages and salaries per ATC	Wages and salaries per operative	Net capital expenditure per head	Net capital expenditure as a percentage of gross value added
	%		£	£	£	%
3.6	49	2.1	5,508	3,876	568	6
3.3	68	1.2	5,144	4,407	675	10
2.5	62	1.6	5,052	4,171	478	7
3.3	57	1.4	6,042	5,131	512	5
3.6	45	1.8	5,423	4,213	758	7
3.4	72	2.8	5,133	4,133	421	7
5.2	63	3.0	5,073	4,336	779	11
2.9	59	1.5	6,431	4,400	640	7
4.3	70	3.2	5,104	3,293	245	5
3.2	62	2.1	4,732	3,422	621	10
3.4	59	1.3	5,097	3,606	605	8
2.8	65	1.6	5,148	3,982	514	8
5.1	64	2.2	5,560	4,975	1,019	13
3.3	60	1.7	5,135	3,778	687	10
4.5	59	2.2	4,980	3,181	727	12
9.9	41	2.8	4,596	4,024	1,674	16
4.3	73	2.4	5,049	3,338	601	11
3.8	25	0.7	6,564	4,449	1,594	7
2.3	61	0.8	5,274	4,323	629	8
4.9	61	3.1	4,584	3,799	602	9
4.2	62	3.1	5,552	3,490	337	5
4.2	66	2.3	5,269	4,460	958	14
5.0	57	3.5	5,049	3,409	681	10
1.2	75	3.3	5,758	4,508	723	11



**TABLE 4 Operating ratios, 1979 (a)**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water**

Standard Industrial Classification minimum list heading	Industry	Gross output per head	Net output per head	Gross value added per head	Gross value added as a percentage of gross output
		£	£	£	%
380	Wheeled tractor manufacturing	34,908	11,807	10,802	31
381 (1)	Motor vehicle manufacturing	22,641	9,554	8,388	37
381 (2)	Trailers, caravans and freight containers	27,211	8,234	7,014	26
382	Motor cycle, tricycle and pedal cycle manufacturing	11,657	6,063	5,204	45
383	Aerospace equipment manufacturing and repairing	17,245	7,934	7,111	41
384	Locomotives, railway track equipment, railway carriages, wagons and trams	13,908	7,321	6,969	50
390	Engineers' small tools and gauges	12,188	7,621	6,729	55
391	Hand tools and implements	14,242	8,173	7,149	50
392	Cutlery, spoons, forks and plated tableware, etc.	14,363	7,937	6,513	45
393	Bolts, nuts, screws, rivets, etc.	14,786	7,663	6,414	43
394	Wire and wire manufactures	27,183	8,688	7,286	27
395	Cans and metal boxes	24,006	8,644	7,645	32
396	Jewellery and precious metals	52,246	13,242	11,048	21
399 (1)	Metal furniture	18,183	8,743	7,209	40
399 (5)	Drop forgings, etc.	17,726	7,431	6,565	37
399 (6)(7)	Metal hollow-ware	20,069	8,664	7,321	36
399 (2)(3)(4)(8)(9)(10)(11)(12)	Miscellaneous metal manufacture	15,695	7,847	6,772	43
411	Production of man-made fibres	28,125	9,749	7,809	28
412	Spinning and doubling on the cotton and flax systems	14,700	5,779	5,218	35
413	Weaving of cotton, linen and man-made fibres	18,194	6,004	5,280	29
414	Woollen and worsted	17,844	6,078	5,422	30
415	Jute	15,132	6,221	5,618	37
416	Rope, twine and net	16,163	5,818	4,633	29
417 (1)	Hosiery and other knitted goods	11,494	5,277	4,707	41
417 (2)	Warp knitting	24,168	8,180	6,782	28
418	Lace	12,596	5,733	5,159	41
419	Carpets	21,435	7,627	6,198	29

Ratio of gross output to stocks (b)	Wages and salaries as a percentage of gross value added	Ratio of operatives to ATC	Wages and salaries per ATC	Wages and salaries per operative	Net capital expenditure per head	Net capital expenditure as a percentage of gross value added
	%		£	£	£	%
4.6	47	3.0	6,424	4,687	1,249	12
4.4	57	3.2	6,186	4,362	1,433	17
5.0	67	3.4	5,393	4,531	695	10
3.3	70	3.3	4,424	3,415	385	7
1.6	72	1.1	5,682	4,569	684	10
2.5	66	4.1	5,401	4,446	432	6
3.8	66	2.9	5,197	4,358	775	12
3.7	50	3.0	4,604	3,352	475	7
4.2	55	3.6	5,355	3,144	666	10
4.1	61	2.8	4,755	3,702	693	11
5.2	61	3.1	4,992	4,278	953	13
6.0	60	4.1	5,907	4,317	740	10
3.2	37	1.5	5,083	3,811	617	6
5.4	58	2.5	5,104	3,912	690	10
4.2	71	4.0	4,830	4,658	525	8
5.6	57	3.9	5,204	4,030	478	7
4.9	57	3.0	4,819	3,716	701	10
5.0	74	3.8	7,608	5,313	1,589	20
5.5	65	5.8	4,720	3,149	377	7
3.8	67	5.7	4,566	3,353	493	9
4.0	62	5.0	4,519	3,167	512	9
5.0	61	5.6	4,831	3,184	1,193	21
3.8	63	4.7	3,796	2,785	309	7
4.3	63	4.1	3,997	2,730	395	8
4.3	63	3.4	4,747	4,123	802	12
5.0	56	3.4	3,865	2,730	386	7
4.8	69	3.3	4,922	4,078	550	9



**TABLE 4 Operating ratios, 1979 (a)**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water**

Standard Industrial Classification minimum list heading	Industry	Gross output per head	Net output per head	Gross value added per head	Gross value added as a percentage of gross output
		£	£	£	%
421	Narrow fabrics	13,220	5,980	5,314	40
422 (1)	Household textiles and handkerchiefs	16,001	6,176	5,181	32
422 (2)	Canvas goods and sacks and other made-up textiles	17,249	5,639	4,388	25
423	Textile finishing	11,792	6,594	5,947	50
429 (1)	Asbestos	16,427	8,550	7,596	46
429 (2)	Miscellaneous textile industries	22,590	10,661	8,557	38
431	Leather (tanning and dressing) and fellmongery	30,059	8,089	7,019	23
432	Leather goods	11,263	5,102	3,970	35
433	Fur	18,662	9,271	8,473	45
441	Weatherproof outerwear	9,148	4,051	3,573	39
442	Men's and boys' tailored outerwear	7,861	3,749	3,238	41
443	Women's and girls' tailored outerwear	13,659	5,713	5,117	37
444	Overalls and men's shirts, underwear, etc.	11,195	5,597	5,011	45
445	Dresses, lingerie, infants' wear, etc.	10,336	5,296	4,702	45
446	Hats, caps and millinery	9,886	5,075	4,188	42
449 (1)(3)(4)	Corsets and miscellaneous dress industries	12,321	6,697	5,740	47
449 (2)	Gloves	11,950	5,432	4,484	38
450	Footwear	12,775	6,342	5,642	44
461 (1)	Refractory goods	23,105	10,756	8,772	38
461 (2)	Building bricks and non-refractory goods	19,189	11,628	9,353	49
462	Pottery	9,798	6,429	5,617	57
463	Glass	19,281	10,994	9,452	49
464	Cement	39,461	23,046	17,426	44
469 (1)	Abrasives	21,193	10,694	9,402	44
469 (2)	Miscellaneous building materials and mineral products	27,911	13,483	10,015	36
471	Timber	25,889	9,701	7,917	31
472	Furniture and upholstery	16,781	8,343	6,840	41
473	Bedding, etc.	16,796	6,973	5,710	34
474	Shop and office fitting	16,803	8,830	7,620	45
475	Wooden containers and baskets	14,840	6,994	5,867	40

Ratio of gross output to stocks (b)	Wages and salaries as a percentage of gross value added	Ratio of operatives to ATC	Wages and salaries per ATC	Wages and salaries per operative	Net capital expenditure per head	Net capital expenditure as a percentage of gross value added
	%		£	£	£	%
4.8	57	3.7	4,169	2,786	525	10
3.6	54	5.0	4,271	2,548	634	12
4.3	66	3.3	4,133	2,690	171	4
8.7	63	3.8	4,646	3,537	865	15
4.3	60	1.8	4,647	4,533	564	7
6.8	52	2.7	5,256	4,225	1,096	13
4.1	54	4.0	5,259	3,474	499	7
4.5	67	4.8	4,679	2,354	212	5
2.6	42	4.5	4,289	3,762	444	5
4.3	72	6.0	3,934	2,368	173	5
4.2	80	6.6	3,902	2,434	196	6
5.1	53	4.6	4,057	2,536	184	4
4.3	50	5.6	4,167	2,251	254	5
5.5	52	5.4	3,916	2,223	197	4
4.7	62	4.9	4,285	2,403	151	4
4.4	47	4.0	4,537	2,291	309	5
4.2	60	5.1	4,143	2,445	537	12
5.2	58	4.9	4,709	3,040	182	3
3.8	53	2.7	5,306	4,455	1,595	18
6.0	51	4.6	4,844	4,820	1,766	19
4.4	63	4.9	4,500	3,398	347	6
5.6	55	3.0	5,958	5,040	1,453	15
5.7	32	2.7	7,076	5,003	3,642	21
4.7	51	1.6	5,538	4,343	590	6
7.7	47	2.6	5,015	4,757	1,661	17
4.3	50	2.8	4,943	3,835	874	11
6.1	62	4.3	5,117	4,173	810	12
5.6	56	3.5	4,493	2,965	368	6
6.0	62	2.6	5,190	4,782	389	5
6.2	64	3.8	5,330	3,595	611	10



**TABLE 4 Operating ratios, 1979 (a)**  
**All United Kingdom establishments classified to mining, manufacturing, construction, gas, electricity and water**

Standard Industrial Classification minimum list heading	Industry	Gross output per head	Net output per head	Gross value added per head	Gross value added as a percentage of gross output
		£	£	£	%
479	Miscellaneous wood and cork manufacturers	18,363	7,906	6,092	33
481	Paper and board	30,328	10,662	8,827	29
482 (1)	Cardboard boxes, cartons and fibre-board packing cases	21,359	9,354	8,039	38
482 (2)	Packaging products of paper and associated materials	27,276	10,858	9,246	34
483	Manufactured stationery	17,582	8,776	7,379	42
484 (1)	Wallcoverings	23,476	8,952	6,853	29
484 (2)	Miscellaneous manufactures of paper and board	25,218	11,649	8,806	35
485, 486	Printing, publishing of newspapers and periodicals	19,387	12,322	10,033	52
489	General printing and publishing	16,928	9,787	7,430	44
491	Rubber	19,446	8,897	7,474	38
492	Linoleum, plastics floor-covering, leathercloth, etc.	23,363	9,394	7,633	33
493	Brushes and brooms	12,411	6,097	5,087	41
494 (1)(2)	Toys, games and children's carriages	12,651	7,026	5,569	44
494 (3)	Sports equipment	15,254	7,608	6,131	40
495	Miscellaneous stationers' goods	19,546	9,740	7,681	39
496	Plastics products	19,226	9,184	7,700	40
499 (1)	Musical instruments	12,886	6,843	6,128	48
499 (2)	Miscellaneous manufacturing industries	13,154	7,405	5,955	45
500	Construction	15,729	6,631	5,669	36
601	Gas	29,781	15,502	13,376	45
602	Electricity	39,621	17,974	15,890	40
603	Water supply	21,363	16,792	14,468	68

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

Ratio of gross output to stocks (b)	Wages and salaries as a percentage of gross value added	Ratio of operatives to ATC	Wages and salaries per ATC	Wages and salaries per operative	Net capital expenditure per head	Net capital expenditure as a percentage of gross value added
	%		£	£	£	%
5.0	55	4.2	4,778	3,324	579	10
6.1	58	3.4	5,645	4,992	2,310	26
8.0	57	3.2	5,314	4,351	835	10
7.2	49	3.2	5,274	4,348	1,212	13
6.2	55	2.2	4,828	3,778	833	11
4.1	68	2.6	5,438	4,361	1,421	21
6.3	52	2.8	5,466	4,253	1,139	13
25.2	58	0.9	5,344	6,325	637	6
5.5	61	1.9	5,095	4,540	756	10
5.4	62	2.3	5,131	4,407	616	8
4.6	58	2.3	4,835	4,258	1,081	14
4.1	62	3.2	4,746	2,768	436	9
4.1	54	3.7	4,541	2,651	516	9
3.3	58	2.8	4,801	3,206	280	5
4.3	54	1.9	5,030	3,695	875	11
6.6	51	3.1	5,103	3,667	1,061	14
3.5	66	4.2	5,330	3,886	463	8
4.7	58	3.1	4,541	3,260	888	15
..	68	3.2	4,210	3,937	467	8
43.5	41	0.7	5,827	5,152	3,888	29
5.6	37	1.3	6,609	5,280	5,547	35
..	35	1.4	5,435	4,714	5,126	35

(b) Stocks include materials, stores and fuel, work in progress and goods on hand for sale at the end of the business year.



### BUSINESS MONITOR

The results of most of the inquiries conducted by the Business Statistics Office are published as Business Monitors. Many firms find these Monitors useful when making decisions. They can give you information about manufacturing industries, their markets and the industries they buy from, and about the retail and wholesale trades.

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The Department of Industry and the Business Statistics Office jointly produce two publications which contain price index numbers which could be used for CCA purposes. "Price index numbers for Current Cost Accounting" (issue number 13) was published in April 1980 by HMSO, price £7.50, and provides historical series of price index numbers up to February 1980 for plant and machinery bought as fixed assets by specific industries, stocks held by specific industries, specific types of asset, and buildings and works. The retail price index is also included. A full explanation of the purpose, content and method of compiling the indices is given in this publication only.

The latest index numbers for the series available in the above publication are published each month in Business Monitor MM17 "Price index numbers for Current Cost Accounting (monthly supplement)". This is available from HMSO, PO Box 569, London SE1 9NH, price £9.85 for 12 consecutive copies. Specimen copies are available from the Librarian, Business Statistics Office, Cardiff Road, Newport, Gwent NPT 1XG, at £1.00 each.



## **HISTORICAL RECORD OF THE CENSUS OF PRODUCTION 1907 to 1970**

The reports of the censuses of production, which the Board of Trade and successor departments have conducted since 1907, together form the most comprehensive set of available statistics on industrial production in the United Kingdom. Data from the first census in 1907 up to the first of the new system of annual censuses for 1970 have been collated into one volume by the Business Statistics Office to form a unique reference work for all those interested in the growth of United Kingdom manufacturing industry since the start of the century.

The aim of the Historical Record is to classify firms mainly engaged in the same activities as consistently as possible to the same industries throughout the years. The method adopted has been to reclassify industries or parts of industries en bloc and bring them into line with the 1968 revision of the Standard Industrial Classification.

The data are published in 11 main tables:

- Table 1 Analysis by census industry, 1907 to 1970
- Table 2 Standard Industrial Classification Orders in percentage terms of all manufacturing industries, 1907 to 1970
- Table 3 Analysis by industry. Import Duty Inquiries, 1933, 1934 and 1937
- Table 4 Capital expenditure and stocks and work in progress by census industry, 1948 to 1970
- Table 5 Capital expenditure and stocks and work in progress by industry group, 1959 to 1970
- Table 6 Analysis of employment, wages and salaries, within industry, 1907 to 1970
- Table 7 Analysis by employment size of establishment within industry, 1930 to 1970
- Table 8 Country analysis of employment and net output, within industry, 1907 to 1970
- Table 9 Sales of selected products by larger establishments, including sales by establishments classified to other industries, 1907 to 1968
- Table 10 Analysis by total employment size of enterprise, 1958 to 1970
- Table 11 Analysis by net output size of enterprise, 1958 to 1970

The "Historical Record of the Census of Production 1907 to 1970", 467 pages, is published by Her Majesty's Stationery Office and is available from Government Bookshops or through booksellers price £10 net (ISBN 0 11 512132 3).

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