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**SIZE DISTRIBUTION OF OUTPUT AND EMPLOYMENT: A DATA SET FOR
MANUFACTURING INDUSTRIES IN FIVE OECD COUNTRIES, 1960s-1990
by Bart van Ark and Erik Monnikhof**

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SIZE DISTRIBUTION OF OUTPUT AND EMPLOYMENT: A DATA SET FOR MANUFACTURING INDUSTRIES IN FIVE OECD COUNTRIES, 1960s-1990

This paper presents a new data set on the number of enterprises, employees, gross output and value added in manufacturing by size category. The figures are obtained from censuses of manufactures and industrial surveys for three years (one year in the 1960s, one year in the 1970s, and one year in the late 1980s or 1990) and five OECD countries (France, Germany, Japan, the United Kingdom and the United States). There are five or six size categories, which are established on the basis of the number of employees per enterprise or establishment. The level of industry disaggregation is according to that in the STAN database. The paper discusses the basic sources and presents the complete data set. It also contains a brief analysis of average firm size, relative productivity levels per size category and concentration ratios.

Cet article présente une nouvelle base de données sur le nombre d'entreprises et de salariés, la production brute et la valeur ajoutée dans le secteur manufacturier par catégorie de taille. Les chiffres ont été obtenus à partir des recensements des entreprises manufacturières et des enquêtes industrielles pour trois années (une dans les années 60, une dans les années 70 et une à la fin des années 80 ou en 1990) et cinq pays de l'OCDE (France, Allemagne, Japon, Royaume-Uni, États-Unis). Il y a cinq ou six catégories de tailles, établies sur la base du nombre de salariés par entreprise ou établissement. Le niveau de désagrégation dans l'industrie correspond à celui de la base de données STAN. L'article examine les sources fondamentales et présente l'ensemble des données. Il contient également une brève analyse de la taille moyenne de l'entreprise, des niveaux relatifs de productivité selon la taille et des taux de concentration.

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SIZE DISTRIBUTION OF OUTPUT AND EMPLOYMENT: A DATA SET FOR MANUFACTURING INDUSTRIES IN FIVE OECD COUNTRIES, 1960s-1990

1. Introduction

The distribution of economic activity among firm size categories has received increasing attention in recent times. In most OECD countries a trend towards a decline in the average size of firms and enterprises can be observed, and the role of small and medium sized firms in creating employment has been emphasised at many places. Small firms are also an indication of a decline in entry barriers, and their emergence might therefore be the result of increased competition and better technological performance within industries. Finally, it has also been claimed by some authors that there might be a direct relationship between the size of firms and relative productivity performance across countries¹.

Most statistical studies on size distribution are based on information derived from business registers or censuses of establishments, occasionally supplemented with information from surveys specifically conducted for the purpose². Even though the comparability of the information across countries is improving, there are still major problems in using the data for the purpose of international comparisons. Among other things, the number of variables available by size category is small, the degree of disaggregation is limited, and there is hardly any information for years before the late 1980s.

For this study on size distribution for five major OECD countries, we used an alternative source which has been available on a regular basis for past decades for most countries, namely censuses of manufactures or industry surveys. Hitherto, this source has been little used for studies on size distribution. This is most likely explained by the fact that, unlike national accounts, manufacturing censuses have not been well harmonised across countries. However, because of the great amount of detail on industries and the large number of variables, the scope for improving the consistency of the information across countries and over time is larger than with most other sources.

The main purpose of this paper is to describe the data base which has been constructed. The appendix to this paper presents information on the number of units (enterprises or establishments), employees, gross output and value added collected from censuses for five OECD countries (France, Germany, Japan, the United Kingdom and the United States) and three benchmark years: 1967 (1962 in the case of France and 1968 in the case of the United Kingdom), 1977 (1975 in the case of Japan) and 1990 (1987 in the case of the United States). The figures are broken down into 36 industries following the classification of the OECD STAN database (OECD, 1996), and six size categories (1-9 employees; 10-19 employees; 20-49 employees; 49-99 employees; 100-499 employees; and 500 and more employees). The appendix also contains an extensive description of the sources and adjustments by country.

In this brief introductory exposition we first provide a general overview of the sources, coverage and concepts of the variables (section 2). In section 3 we present some basic indicators which can be derived from our data-set, including estimates of average firm size and productivity levels by size category as a ratio of the productivity level for the economy as a whole. Finally, section 3 also shows some evidence on changes and differences in concentration ratios over time and across countries.

1. See, for example, European Network for SME Research (1995).

2. See, for example, EUROSTAT (1994).

2. Sources, Coverage and Concepts

2.1 Sources

Censuses of production have been available since the early days of modern statistical practice, and have played a crucial role in the construction of national accounts. The quality of the earliest censuses and surveys was affected by lack of experience in data collection and processing³. Information was only available for a limited number of variables, and not all production units were adequately covered. Most important was the lack of a reliable and up-to-date business register. However, in the course of the 20th century the coverage of the production censuses and the quality of the statistical information greatly improved. During the 1960s and 1970s, censuses for most advanced countries consisted of multiple volumes containing a large amount of detail for hundreds of different industries. Since the 1980s many countries have transformed their censuses into sample surveys, which are less of a drain on the budget of statistical offices and reduce the administrative burden for firms that provide the information. In particular enterprises with less than 100 employees are now monitored almost entirely by sample surveys. In the 1970s and early 1980s, enterprises with less than 20 employees were entirely dropped from the industrial surveys in France, Germany and the United Kingdom. Only the US Census of Manufactures still has full coverage. We therefore had to make use of additional surveys for small firms, which are mostly based on business registers, to complete our data set.

In fact, data collection and presentation for the smallest firms has always been problematic in the censuses of production. In particular for France and Germany it is difficult to distinguish handicraft ("Handwerk" in Germany, or "artisanat" in France) from manufacturing. Although we aimed to achieve full coverage in our appendix tables for "industry, excluding handicraft and repair", the figures for firms with 0-9 employees remain the least comparable across countries and over time. For example, in the case of France we were not able to exclude "artisanat" from our data altogether, so that the 1962 estimates include, for example, 36,820 enterprises in automobile production of which 35,012 are in the size category 0-9 employees. Similarly there were 39,249 agricultural repair shops included in the French data for 1962. Below we present our figures for "industry, excluding handicraft and repair", including and excluding units with 0-9 and 10-19 employees, but we only have a complete coverage of all five countries and all three benchmark years for units with 20 or more employees.

Appendix table 1 shows that the greater part of the information presented in the appendix tables was directly obtained from the censuses, although there are differences in coverage between years and between countries. Only a small part of the figures was estimated, and most of that fell within the size category of 0-19 employees.

2.2 Enterprise versus establishment

One of the drawbacks in using censuses for international comparisons of size distribution concerns the different unit by which the variables are measured⁴. One can distinguish between the "establishment" as the unit used in the censuses of Japan and the United States, and the "enterprise" which is used in the censuses of France, Germany and the United Kingdom. The "enterprise" is a legal entity representing common ownership or control as it is recognised in national legislation. Usually the legal

3. The first censuses of manufactures for the United Kingdom and the United States were already available during the 19th century. Most continental European countries followed during the early 20th century.

4. See van Ark (1993).

unit is also the reporting unit to the census⁵. The "establishment" (also "local unit") is characterised by its single physical location where industrial production or services are performed⁶. Our estimates for Japan and the United States on the one hand, and France, Germany and the United Kingdom on the other hand, are therefore not directly comparable. This can be seen most clearly from table 1, which shows that the average number of employees per unit is much lower for the two non-European countries than for the European countries.

2.3 Coverage

Even when they include all size categories, the censuses of manufactures do not have an exhaustive coverage. Table 2 compares the number of employees from the census with that reported in the national accounts. The latter source should provide an all-inclusive picture of the economic activity. For all five countries there is under-coverage in the census compared to the national accounts. The causes of undercoverage may be one or more of the following:

- 1) The national accounts estimates for industry include some handicraft activity as far as this can be separated from service activities. In the national accounts, repair activities are included with services, with the exception of the German national accounts estimate for manufacturing, which still includes a good deal of repair activity which we excluded from the census figures⁷.
- 2) Some censuses do not include working proprietors, even though these were included in our estimates where possible.
- 3) Some censuses do not include employment in auxiliary units, such as head offices, laboratories, warehouses, etc.

The first factor is the most important in explaining the undercoverage of the industrial surveys of the continental European countries, although undercoverage in France is also caused by the fact that enterprises with 0-9 employees are excluded from table 1⁸. In the case of Germany it should be emphasised once more that the national accounts might overstate the size of the manufacturing sector as it includes a great deal of non-manufacturing repair activity. However, there is evidence that the level of outsourcing of service activities by manufacturing firms in Germany is lower than in other countries. The second and third explanations play a more important role in the undercoverage of Japanese and US

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5. Legal bodies which are owned by a parent company (e.g. a holding) or fellow subsidiary companies are counted separately. In most statistics the legal unit is named the enterprise or firm (in France "entreprise"; in Germany "das Unternehmen"). However, in the United Kingdom the terminology used refers to a "business unit", as the term "enterprise" is used for a consolidated group of legal units owned by the same parent company.
 6. The establishment should not be mistaken for an activity unit, which is the smallest unit representing a particular manufacturing activity for which separate production accounts can be compiled. A local unit may consist of more than one activity unit, but it is also possible that an activity unit comprises more than one local unit. Before 1987, the UK census provided information on activity units as well as legal units. For France and Germany a limited amount of information (but not by size category) is also available for the activity unit (named "activité principal" and "Fachliche Unternehmensteile" respectively). Activity units are not distinguished in the Japanese and US censuses.
 7. See also van Ark (1995).
 8. As we were not able to separate handicraft activities from the information for the smallest firms, the French estimates for the 0-9 employees category are not presented in the summary tables.

Censuses of Manufactures. For Japan the absence of working proprietors weighs more heavily than for the United States, because of the relatively large share of small establishments in Japan.

2.4 *Output Concepts*

The tables in this paper show figures for two concepts of output, i.e. gross output and value added. Gross output in France, Japan and the United States represent "value of shipments" (or "chiffres d'affaires") which is the net sales value of all products sold, i.e. the value of all production and inventories sold. For Germany and the United Kingdom our estimates represent the gross value of production, i.e. the value of all production sold and unsold. In all cases the value of produced services, contract work and miscellaneous receipts are included in the estimates.

The "census concept" of value added, i.e. gross output minus intermediate inputs, is broader than in the national accounts, as it originally aimed to correct only for double counting of output which was used as input within the industrial sector. As a result only purchases of industrial inputs, including raw materials, packaging materials, workshop materials, energy inputs and contract work were deducted, but census value added still includes purchases of service inputs. For Japan and the United States only census value added was available. For Germany, France and the United Kingdom, the censuses switched to the "national accounts" concept of value added in recent years. In order to retain comparability over time, we stuck to the census concept for Germany and the United Kingdom. Only for France, the national accounts concept of value added was used for all three benchmark years.

3. *A Summary of the Results*⁹

3.1 *Average Firm Size*

Table 1 shows the average number of employees per manufacturing unit for all units, units with 10 or more employees and units with 20 or more employees. The estimates for France, Germany and the United Kingdom are not directly comparable with those for Japan and the United States, as the estimates for the latter two countries refer to the average number of employees per establishment, whereas data for the first three countries refer to the average number of employees per enterprise.

As far as the European countries are concerned, the table suggests that French enterprises were smaller than German and UK enterprises. However, average firm size in the United Kingdom declined strongly over the years. In 1968, average firm size in the United Kingdom was comparable to that in Germany, but by 1990 it was comparable to that of France in 1990. German firms showed very little decline in average size. Japanese establishments were substantially smaller than those in the United States but the difference declined between 1967 and 1987/1990, as the average number of employees in American establishments fell substantially.

9. This section only presents some summary results for the manufacturing sector as a whole. More detailed comparisons can be made on the basis of the estimates presented in the appendix.

3.2 *Distribution of Variables by Size Category*

Tables 3 and 4 summarise the distribution of the four key variables (enterprises/establishments, employees, gross output and value added) for units with 20 or more employees and all units (except France, which excludes units from 0-9 employees) respectively. Tables 3a and 4a show the distribution of the number of enterprises or establishments among size classes. These tables show that since 1977 all countries except Japan experienced a decline in the share of units with 100 and more employees and a rise in units with less than 50 employees. Compared to France and Germany, United Kingdom was originally characterised by relatively many large-size units, in particular in the size category of 100 to 499 employees. However, by 1990 UK enterprises were more strongly represented in the size category of 0 to 19 employees than either France or Germany.

In terms of distribution of employees (tables 3b and 4b), the shifts from large to small units has also been largest in the United Kingdom, although in the case of the United States, employment in establishments with more than 500 employees declined rapidly in favour of all other size categories as well. Tables 3c and 4c show the distribution of gross output, and tables 3d and 4d for value added by size category. The differences in output distribution across countries are rather similar to those for employment shown in tables 3b and 4b. However, within the countries output distribution differs from that of employment, which may affect the comparative levels of labour productivity across the countries.

3.3 *Comparative Productivity Levels by Size Category*

The information on gross output and value added can be combined with that of employment to obtain estimates on relative productivity performance by size category expressed as a percentage of productivity for the manufacturing sector as a whole. Tables 3e and 4e (gross output per employee) and tables 3f and 4f (value added per employee) show that larger units have a systematically higher labour productivity than smaller units.

It appears that the gap in the labour productivity level between the smallest units and the larger units widened for all five countries over the past three decades. Relative productivity levels rose in size categories with over 100 employees and declined in those smaller than 100 employees, most notably in the 0-19 category. One cannot conclude on the basis of these data how the shift towards smaller firms affected overall productivity performance, which also depends on the actual rate of increase in real output per person.

On the whole the productivity gap between the smallest and largest units was and remains by far the largest in Japan. In 1990, labour productivity in establishments with 0-19 employees was less than one third of that in establishments with more than 500 employees. The productivity gap was and remains smallest for Germany. In 1967, small firms had a labour productivity level which was less than 10 per cent below that of the largest firms. This gap had increased to some 30 per cent by 1990 (tables 4e and 4f).

3.4 *Concentration Indexes*

Data on size distribution can also be used to calculate concentration measures. Such measures are frequently used to assess the market structure of an industry and assess whether an industry is close to perfect competition or close to a monopoly situation. The most popular indicator of market structure is the Hirschman-Herfindahl index. For an industry with N firms, it can be defined as:

$$HHI = \sum_{i=1}^N \left[\frac{X_i}{\sum_i X_i} \right]^2$$

where i indexes firms $1, 2, \dots, N$ and X_i is an appropriate measure of firm size (e.g. gross output). This indicator requires firm level data which are often not available. When there are no data on the X_i 's, but only on the size distribution of firms, it is nonetheless possible to construct an approximation of the HHI. Assume that there are M size categories (S_1, S_2, \dots, S_M) with:

n_i = the number of firms between size S_{i-1} and S_i .

X_i = the total output of firms between size S_{i-1} and S_i .

A synthetic concentration index can be defined as:

$$MIN = \sum_{i=1}^M n_i * \left[\frac{(X_i / n_i)}{\sum_i X_i} \right]^2$$

Note that $n_i * (X_i / n_i)^2$ is the sum of squared outputs for all firms in the size class between S_{i-1} and S_i if they all have the same output. Therefore, symmetry is implicitly assumed within each size category. It can be shown that MIN gives the minimum bound for the true HHI index.

Schmalensee (1977) suggested a variant of this indicator which provides a better estimate of the ideal HHI index. Instead of having a constant firm size within each size category, it can be assumed that firm size varies linearly within each class. In order to simplify the calculations, Schmalensee's method (denoted MINL) makes the assumption that only the market share of firms in the top rank declines linearly. If there are five size classes arrayed from the smallest to the largest, this leads to the following proxy of the HHI index:

$$MINL = MIN + \left[\frac{X_5 / \sum_i X_i}{n_5} - \frac{X_4 / \sum_i X_i}{n_4} \right] * \frac{(n_5)^2 - 1}{3n_5}$$

The data on size distribution presented in this paper can be used to calculate this index. Table 5 provides estimates of concentration rates for the five countries and for the three different benchmark years. It appears that the ranking of sectoral concentration is similar across countries¹⁰. This is one of the stylised facts from the literature on industrial organisation (Schmalensee, 1989). For instance, the degree of concentration is very high in all countries in tobacco products, petroleum refineries, railroad equipment and aircraft, whereas it is very low in food products, textiles and clothing, and metal products. Trends in concentration rates differ markedly among the five countries. In the United States, Germany and the

10. The levels of concentration rates differ markedly between the United States and Japan on the one hand and the European countries on the other. This is due to the use of establishment data for the former two countries and enterprise data for the latter three.

United Kingdom, concentration has increased over the past decades, whereas in Japan and France, concentration has fallen.

4. Conclusion

Our data base on size distribution of production units, employment, gross output and value added in manufacturing, has certain advantages over alternative sources. Most important is the greater level of detail, and the possibility to adjust output and employment estimates to establish consistency across countries. In section 2 we explained remaining shortcomings of our data base. These include the use of different concepts, i.e. enterprises for the estimates from the European countries and the use of establishments for the estimates from Japan and the United States. Furthermore, we were not (yet) able to adjust our estimates to a "national accounts" concept of value added. Finally, in some cases (in particular for France) we have not excluded "handicraft" from our estimates.

Although specifically designed surveys may yield additional information on the relative performance of firms of different sizes, the use of the census material can be very useful. Firstly, the censuses cover a longer period than the surveys¹¹. Secondly, the information on firm size can be linked with other census information to analyse the role of factors related to industry composition and factors which operate within the industries. Finally, it is also possible to link this source to a more detailed comparison of productivity across countries, taking into account changes in real growth rates and comparative levels of labour productivity across countries.

11. See Prais (1981), Ehrlich (1985) and Maddison (1994) for a discussion of firm size over periods of several decades up to a century, based on census material.

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Table 1. **Average size of enterprises/establishments^a**

	Average number of employees per enterprise/establishment ^a		
	All units	Units with 10 or more employees	Units with 20 or more employees
France (1962)	-	106	161
France (1977)	-	133	181
France (1990)	-	91	131
Germany (1967)	91	-	213
Germany (1977)	93	-	206
Germany (1990)	86	-	207
UK (1968)	85	n.a.	212 ^b
UK (1977)	67	142	204
UK (1990)	34	94	148
Japan (1967)	18	54	95
Japan (1975)	15	52	93
Japan (1990)	16	51	81
USA (1967)	60	121	163
USA (1977)	53	111	152
USA (1987)	49	95	135

a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.

b) 25-49 employees.

Table 2. **Employment according to censuses of manufactures and national accounts**

	Censuses of manufactures (1000)	National Accounts (1000)	Ratio National Accounts to census
France (1962)	4,553 ^ε	5,175	1.137
France (1977)	5,025 ^ε	5,674	1.129
France (1990)	3,644 ^ε	4,557	1.251
Germany (1967)	7,714	9,418	1.221
Germany (1977)	7,487	8,927	1.192
Germany (1990)	7,509	8,932	1.190
UK (1968)	7,826	8,394	1.073
UK (1977)	7,281	7,461	1.025
UK (1990)	4,846	5,494	1.134
Japan (1967)	10,544	13,796	1.308
Japan (1975)	11,296	14,228	1.260
Japan (1990)	11,788	15,348	1.302
USA (1967)	18,491	19,811	1.071
USA (1977)	18,529	20,113	1.085
USA (1987)	17,717	19,734	1.114

a) Excluding firms with 1-9 employees.

Note: All countries exclude handicrafts, employment in auxiliary unites (head offices, laboratories, etc.) is excluded for Japan and the United States.

Source: Census employment, see appendix tables; National Accounts employment from Van Ark (1995).

Table 3a. **Enterprises/establishment^a by employment size category as a percentage of all enterprise/establishments^a,**
Units with 20 or more employees

	Number of Enterprises/ establishments ^a (1000)	Share in total of enterprises/establishments ^a with			
		20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	27.0	54.0	21.5	20.2	4.3
France (1977)	27.0	53.4	20.4	21.1	5.1
France (1990)	26.1	58.1	20.5	17.6	3.8
Germany (1967)	34.8	43.4	23.8	26.7	6.2
Germany (1977)	34.9	46.5	23.6	23.8	6.1
Germany (1990)	34.7	44.6	24.1	25.3	6.0
UK (1968)	34.4	27.4 ^b	27.6	35.8	9.2
UK (1977)	33.2	44.2	22.1	26.3	7.4
UK (1990)	29.4	49.7	21.9	23.3	5.1
Japan (1967)	80.1	60.9	21.7	14.9	2.5
Japan (1975)	84.5	61.3	21.6	14.6	2.4
Japan (1990)	105.5	64.7	19.8	13.6	1.8
USA (1967)	107.1	45.7	23.3	25.7	5.4
USA (1977)	113.9	45.2	23.5	26.3	5.0
USA (1987)	120.8	47.8	23.4	24.7	4.1

a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.

b) 25-49 employees.

Table 3b. **Employees by employment size category as a percentage of total employment**
units with 20 or more employees

	Total Number of employees (1000)	Share in total of enterprises/establishments ^a with			
		20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	4,337	10.5	9.3	25.7	54.5
France (1977)	4,871	9.6	8.1	25.2	57.1
France (1990)	3,435	14.2	11.0	27.3	47.5
Germany (1967)	7,412	6.4	7.8	26.2	59.5
Germany (1977)	7,191	7.2	8.0	24.4	60.4
Germany (1990)	7,159	7.1	8.2	25.3	59.4
UK (1968)	7,296	4.5 ^b	8.6	33.9	53.1
UK (1977)	6,776	6.6	7.6	27.5	58.3
UK (1990)	4,352	10.6	10.3	33.4	45.6
Japan (1967)	7,643	19.7	15.5	30.5	34.3
Japan (1975)	7,862	20.3	15.9	30.5	33.3
Japan (1990)	8,525	23.5	16.9	31.9	27.7
USA (1967)	17,449	8.8	10.0	33.0	48.3
USA (1977)	17,322	9.4	10.8	35.9	43.8
USA (1987)	16,265	11.1	12.1	37.6	39.2

a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.

b) 25-49 employees.

Table 3c. **Gross output by employment size category as a percentage of total gross output units with 20 or more employees**

	Total Gross output (billion national currency)	Share in total of enterprises/establishments ^a with			
		20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	228.4	9.8	8.5	23.6	58.0
France (1977)	1,297.1	7.7	6.6	22.1	63.5
France (1990)	3,518.1	9.7	8.5	24.9	56.9
Germany (1967)	398.7	5.6	6.8	23.8	63.7
Germany (1977)	938.8	5.6	6.5	21.5	66.4
Germany (1990)	1,784.1	5.0	6.4	22.7	65.9
UK (1968)	36.4	3.8 ^b	7.4	31.6	57.2
UK (1977)	124.7	5.3	6.3	26.9	61.5
UK (1990)	313.9	7.2	7.3	30.8	54.7
Japan (1967) ^c	36.1	13.0	11.1	28.9	46.9
Japan (1975) ^c	109.8	12.6	11.5	29.9	46.1
Japan (1990) ^c	288.7	13.2	11.7	31.9	43.3
USA (1967)	529.9	7.6	9.0	31.4	52.1
USA (1977)	1,294.1	7.4	9.0	32.8	50.8
USA (1987)	2,347.1	7.7	9.7	34.7	47.9

a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.

b) 25-49 employees.

c) 1000 billion yen.

Table 3d. Value added by employment size category as a percentage of total value added units with 20 or more employees

	Total Value added (billion national currency)	Share in total of enterprises/establishments ^a with			
		20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	83.5	8.2	7.2	21.6	63.0
France (1977)	407.1	8.5	6.9	23.0	61.7
France (1990)	1,102.5	10.6	8.3	24.8	56.3
Germany (1967)	205.6	5.4	6.6	23.0	65.1
Germany (1977)	448.1	5.6	6.5	21.4	66.5
Germany (1990)	854.5	5.3	6.5	22.3	65.9
UK (1968)	14.3	3.9 ^b	7.4	31.3	57.4
UK (1977)	47.8	5.6	6.5	26.4	61.4
UK (1990)	130.8	8.0	7.9	30.5	53.6
Japan (1967)	13.5	14.3	10.6	27.5	47.6
Japan (1975)	39.4	13.6	11.8	30.7	43.9
Japan (1990)	117.2	13.9	11.7	33.0	41.4
USA (1967)	248.7	7.3	8.4	30.3	54.0
USA (1977)	555.4	7.5	8.7	32.1	51.7
USA (1987)	1,101.2	7.9	9.6	34.0	48.6

a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.

b) 25-49 employees.

c) 1000 billion yen

Table 3e. **Gross output per employee per size category as a percentage of total gross output per employee units with 20 or more employees**

	All establishments /enterprises ^a	20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	100.0	93.4	92.0	92.0	106.4
France (1977)	100.0	80.4	81.6	87.8	111.3
France (1990)	100.0	68.3	76.7	91.5	119.8
Germany (1967)	100.0	87.9	86.8	90.8	107.1
Germany (1977)	100.0	77.5	81.3	88.1	110.0
Germany (1990)	100.0	70.7	77.9	89.7	111.0
UK (1968)	100.0	84.8 ^b	85.7	93.4	107.8
UK (1977)	100.0	79.6	83.0	98.1	105.4
UK (1990)	100.0	67.7	70.6	92.2	119.9
Japan (1967)	100.0	66.0	71.6	95.0	136.9
Japan (1975)	100.0	62.1	72.0	97.9	138.5
Japan (1990)	100.0	56.0	69.0	99.9	156.5
USA (1967)	100.0	85.8	89.8	95.2	108.0
USA (1977)	100.0	78.1	83.6	91.2	115.9
USA (1987)	100.0	69.9	80.2	92.3	122.0

a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.

b) 25-49 employees.

Table 3f. **Value added per employee per size category as a percentage of total value added per employee units with 20 or more employees**

	All establishments/ enterprises ^a	20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	100.0	77.6	77.6	84.1	115.6
France (1977)	100.0	88.0	84.9	91.2	108.1
France (1990)	100.0	74.4	75.4	90.8	118.7
Germany (1967)	100.0	83.7	84.2	87.6	109.3
Germany (1977)	100.0	78.5	80.4	87.7	110.1
Germany (1990)	100.0	74.2	79.1	88.2	111.0
UK (1968)	100.0	86.6 ^b	86.6	92.4	108.2
UK (1977)	100.0	85.0	85.7	96.3	105.3
UK (1990)	100.0	75.5	76.4	91.3	117.5
Japan (1967)	100.0	72.4	68.0	90.4	139.0
Japan (1975)	100.0	67.0	74.1	100.5	132.1
Japan (1990)	100.0	59.1	69.1	103.6	149.5
USA (1967)	100.0	83.3	84.2	91.8	111.9
USA (1977)	100.0	79.4	80.9	89.3	117.9
USA (1987)	100.0	71.5	78.7	90.5	123.8

a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.

b) 25-49 employees.

Table 4a. **Enterprises/establishment^a by employment size category as a percentage of all enterprise/establishments^a, all units**

	Number of enterprises/ establishments (1000)	Share in total of enterprises/establishments ^a with					
		0-9 employees	10-19 employees	20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	42.8 ^b	...	36.9	34.1	13.6	12.8	2.7
France (1977)	37.7 ^b	...	28.4	38.3	14.6	15.1	3.6
France (1990)	40.1 ^b	...	34.9	37.8	13.4	11.5	2.5
Germany (1967)	84.6	58.9	----->	17.9	9.8	11.0	2.5
Germany (1977)	80.4	56.6	----->	20.2	10.2	10.3	2.6
Germany (1990)	87.3	60.3	----->	17.7	9.6	10.0	2.4
UK (1968)	91.8	62.5	-----> ^c	10.3 ^d	10.4	13.4	3.4
UK (1977)	108.0	54.3		13.6	6.8	8.1	2.3
UK (1990)	143.2	66.2		10.2	4.5	4.8	1.0
Japan (1967)	599.0	72.7	13.9	8.1	2.9	2.0	0.3
Japan (1975)	736.0	76.2	12.3	7.0	2.5	1.7	0.3
Japan (1990)	728.9	73.7	11.9	9.4	2.9	2.0	0.3
USA (1967)	305.7	51.3	13.6	16.0	8.2	9.0	1.9
USA (1977)	350.8	53.8	13.8	14.7	7.6	8.5	1.6
USA (1987)	358.9	50.0	16.3	16.1	7.9	8.3	1.4

- a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.
b) Only units with 10 and more employees.
c) 0-24 employees.
d) 25-49 employees.

Table 4b. **Employees by employment size category as a percentage of total employment, all units**

	Total number of employees (1000)	Share in total of enterprises/establishments ^a with					
		0-9 employees	10-19 employees	20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	4,553 ^b	...	4.7	10.0	8.8	24.5	51.9
France (1977)	5,025 ^b	...	3.1	9.3	7.9	24.4	55.3
France (1990)	3,644 ^b	...	5.7	13.4	10.4	25.7	44.7
Germany (1967)	7,714	3.9	----->	6.2	7.5	25.2	57.2
Germany (1977)	7,487	3.9	----->	6.9	7.7	23.5	58.0
Germany (1990)	7,509	4.7	----->	6.8	7.8	24.1	56.6
UK (1968)	7,826	6.8	-----> ^c	4.2 ^d	8.0	31.6	49.5
UK (1977)	7,281	3.8	3.2	6.2	7.1	25.6	54.3
UK (1990)	4,846	5.8	4.4	9.6	9.3	30.0	40.9
Japan (1967)	10,554	16.4	11.2	14.3	11.3	22.1	24.8
Japan (1975)	11,296	19.1	11.3	14.1	11.1	21.2	23.1
Japan (1990)	11,788	17.6	10.1	17.0	12.2	23.1	20.0
USA (1967)	18,491	2.5	3.1	8.3	9.4	31.1	45.5
USA (1977)	18,529	2.9	3.6	8.8	10.1	33.6	41.0
USA (1987)	17,717	3.7	4.5	10.2	11.1	34.5	36.0

- a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.
- b) Only units with 10 and more employees.
- c) 0-24 employees.
- d) 25-49 employees.

Table 4c. **Gross output by employment size category as a percentage of total gross output, all units**

	Total Gross output (billion national currency)	Share in total of enterprises/establishments ^a with					
		0-9 employees	10-19 employees	20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	239	...	4.3	9.4	8.2	22.6	55.5
France (1977)	1,330	...	2.4	7.6	6.5	21.6	62.0
France (1990)	3,646	...	3.5	9.4	8.2	24.1	54.9
Germany (1967)	415	3.9	----->	5.4	6.5	22.9	61.3
Germany (1977)	971	3.3	----->	5.4	6.3	20.8	64.2
Germany (1990)	1,850	3.6	----->	4.9	6.1	21.9	63.5
UK (1968)	39	5.9	-----> ^c	3.6 ^c	6.9	29.8	53.8
UK (1977)	132	3.0	2.6	5.0	5.9	25.4	58.1
UK (1990)	338	3.9	3.2	6.7	6.8	28.6	50.8
Japan (1967) ^e	41	5.7	6.5	11.4	9.8	25.4	41.2
Japan (1975) ^e	128	6.9	7.0	10.9	9.9	25.7	39.7
Japan (1990) ^e	327	6.0	5.7	11.6	10.3	28.1	38.2
USA (1967)	557	2.2	2.7	7.2	8.5	29.8	49.6
USA (1977)	1,359	2.2	2.6	7.0	8.6	31.2	48.4
USA (1987)	2,476	2.3	2.9	7.3	9.2	32.9	45.4

- a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.
- b) Only units with 10 and more employees.
- c) 0-24 employees.
- d) 25-49 employees.
- e) 1000 billion yen.

Table 4d. Value added by employment size category as a percentage of total value added, all units

	Total Value added (billion national currency)	Share in total of enterprises/establishments ^a with					
		0-9 employees	10-19 employees	20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	87 ^b	...	3.8	7.9	6.9	20.8	60.7
France (1977)	419 ^b	...	2.8	8.2	6.7	22.3	59.9
France (1990)	1,145 ^b	...	3.7	10.2	8.0	23.8	54.2
Germany (1967)	213	3.6	----->	5.2	6.3	22.2	62.7
Germany (1977)	463	3.3	----->	5.4	6.2	20.7	64.3
Germany (1990)	888	3.8	----->	5.1	6.2	21.5	63.4
UK (1968)	15	6.2	----- ^c	3.6 ^d	7.0	29.4	53.8
UK (1977)	51	3.3	2.7	5.3	6.1	24.9	57.7
UK (1990)	142	4.4	3.4	7.4	7.3	28.1	49.4
Japan (1967) ^e	16	6.9	7.2	12.3	9.1	23.6	40.9
Japan (1975) ^e	48	9.1	8.2	11.3	9.8	25.4	36.3
Japan (1990) ^e	137	7.7	6.4	11.9	10.0	28.3	35.5
USA (1967)	262	2.3	2.7	7.0	8.0	28.7	51.3
USA (1977)	585	2.4	2.8	7.1	8.3	30.4	49.0
USA (1987)	1,166	2.4	3.1	7.5	9.0	32.1	45.9

- a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.
b) Only units with 10 and more employees.
c) 0-24 employees.
d) 25-49 employees.
e) 1000 billion yen.

Table 4e. Gross output per employee per size category as a percentage of total gross output per employee, all units

	All establishments /enterprises ^a	0-9 employees	10-19 employees	20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	100.0 ^b	...	91.5	93.8	92.4	92.4	106.8
France (1977)	100.0 ^b	...	79.9	80.9	82.1	88.4	112.0
France (1990)	100.0 ^b	...	61.2	69.9	78.5	93.6	122.6
Germany (1967)	100.0	99.3	----->	87.9	86.8	90.8	107.1
Germany (1977)	100.0	83.5	----->	78.1	81.8	88.7	110.7
Germany (1990)	100.0	77.1	----->	71.5	78.8	90.7	112.2
UK (1968)	100.0	86.8	-----> ^c	85.6 ^d	86.5	94.3	108.8
UK (1977)	100.0	79.6	80.8	80.8	84.2	99.6	107.0
UK (1990)	100.0	68.0	72.3	70.0	73.0	95.4	124.0
Japan (1967)	100.0	34.8	58.3	80.0	86.8	115.1	165.9
Japan (1975)	100.0	36.2	61.5	76.8	89.1	121.1	171.4
Japan (1990)	100.0	34.4	56.4	68.3	84.2	121.9	191.0
USA (1967)	100.0	90.1	85.3	86.4	90.5	95.9	108.8
USA (1977)	100.0	75.3	72.5	79.6	85.2	92.9	118.0
USA (1987)	100.0	61.9	64.0	72.2	82.9	95.3	126.0

- a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.
b) Only units with 10 and more employees.
c) 0-24 employees.
d) 25-49 employees.

Table 4f. Value added per employee per size category as a percentage of total value added per employee, all units

	All establishments/ enterprises ^a	0-9 employees	10-19 employees	20-49 employees	50-99 employees	100-499 employees	500 and more employees
France (1962)	100.0	...	79.1	78.4	78.4	85.0	116.8
France (1977)	100.0	...	91.6	88.2	85.1	91.5	108.3
France (1990)	100.0	...	64.7	75.9	77.1	92.8	121.2
Germany (1967)	100.0	91.9	----->	84.0	84.5	87.9	109.6
Germany (1977)	100.0	82.6	----->	79.0	81.0	88.3	110.9
Germany (1990)	100.0	81.4	----->	74.9	79.8	89.0	112.0
UK (1968)	100.0	91.5	-----> ^c	87.2 ^d	87.1	92.9	108.9
UK (1977)	100.0	86.5	86.0	85.9	86.6	97.3	106.4
UK (1990)	100.0	76.6	77.8	77.5	78.4	93.6	120.5
Japan (1967)	100.0	42.2	64.4	85.8	80.6	107.1	164.8
Japan (1975)	100.0	47.6	72.0	79.7	88.1	119.5	157.0
Japan (1990)	100.0	44.1	63.4	70.2	82.0	123.0	177.5
USA (1967)	100.0	93.4	87.1	83.8	84.7	92.4	112.6
USA (1977)	100.0	80.6	77.6	80.6	82.1	90.6	119.6
USA (1987)	100.0	66.7	68.4	73.6	81.0	93.1	127.3

- a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.
b) Only units with 10 and more employees.
c) 0-24 employees.
d) 25-49 employees.

Table 5. Evolution of concentration by sector

ISIC Code	Manufacturing sector	United States			Japan			Germany			France			United Kingdom		
		1967	1977	1987	1967	1975	1990	1967	1977	1990	1962	1977	1990	1968	1977	1990
31	Food, beverages, tobacco	2	3	3	4	3	2	16	15	17	20	13	12	9	15	19
311.2	Food	2	3	3	3	2	2	18	19	21	17	14	12	7	14	19
313	Beverages	26	27	31	72	51	30	44	42	33	70	164	154	61	95	114
314	Tobacco	196	403	823	0	0	313	902	1028	1622	10000	0	0	589	968	2088
32	Textiles, apparel, leather	2	2	3	3	1	1	6	8	12	6	8	10	3	7	9
321	Textiles	6	7	8	4	3	3	14	19	27	15	23	25	6	15	17
322	Wearing apparel	2	3	3	3	2	1	12	14	24	7	11	17	6	13	23
323	Leather and products	28	29	43	26	10	11	70	47	119	55	47	144	22	35	74
324	Footwear	16	24	54	62	50	29	183	167	190	47	110	198	43	118	215
33	Wood products and furniture	3	2	2	2	2	2	11	12	14	11	13	12	6	9	9
331	Wood products	3	3	3	2	2	3	9	25	25	27	39	23	12	14	17
332	Furniture and fixtures	9	9	8	5	4	6	39	26	30	14	19	25	14	23	20
34	Paper products and printing	4	4	3	13	11	10	20	18	20	19	17	16	12	14	12
341	Paper products	10	11	11	23	23	27	54	59	70	61	64	75	28	35	33
342	Printing and publishing	7	5	4	29	20	17	25	22	20	23	20	17	22	22	19
35	Chemical products	6	6	5	16	15	7	36	36	25	46	45	30	16	19	21
351	Industrial chemicals	21	19	19	43	32	38	119	120	121	149	190	165	48	53	75
352	Other chemicals	16	12	16	45	32	27	103	110	106	43	42	45	44	83	89
3522	Drugs and medicines	119	85	69	134	92	56	162	178	165	101	76	85	166	245	241
353	Petroleum refineries	94	94	107	354	276	288	747	853	960	986	1686	1712	1054	681	1422
354	Petroleum and coal products	23	19	15	598	277	104	0	0	0	1282	3204	4144	148	751	764
355	Rubber products	55	55	42	67	70	54	187	259	242	316	417	396	122	145	195
356	Plastic products nec	12	6	4	29	26	6	47	25	22	39	52	28	26	24	16
36	Non metallic mineral products	6	6	6	9	6	7	23	17	22	55	40	40	14	30	30
361	Pottery and china	129	114	138	60	60	47	174	237	260	88	303	289	99	199	163
362	Glass products	54	46	41	150	125	116	162	72	198	292	298	220	144	255	258
369	Non metallic products nec	5	5	6	8	6	4	36	30	23	143	50	58	16	39	47

Table 5. Evolution of concentration by sector (cont.)

ISIC code	Manufacturing sector	United States			Japan			Germany			France			United Kingdom		
		1967	1977	1987	1967	1975	1990	1967	1977	1990	1962	1977	1990	1968	1977	1990
37	Basic metal industries	13	15	15	26	25	23	63	61	64	88	95	108	26	41	80
371	Iron and steel	31	33	40	46	46	42	93	95	106	113	143	193	44	71	195
372	Non-ferrous metals	17	22	22	55	43	43	171	149	152	350	271	260	59	87	92
38	Fabricated metal products	2	2	2	4	4	3	6	6	6	10	11	14	4	5	7
381	Metal products	4	3	3	4	3	3	9	14	10	17	13	8	7	12	10
382	Machinery nec	6	7	6	10	11	8	15	14	11	14	19	17	8	11	11
3825	Office and computing equipm.	131	34	57	73	82	79	0	233	706	1200	726	1448	274	402	448
383	Electrical machinery	9	8	7	18	12	8	39	35	27	53	50	68	18	27	22
3832	Radio, TV & comm equipm.	40	36	53	85	56	67	406	362	196	235	455	358	58	85	60
384	Transport equipment	21	21	21	34	28	26	105	57	73	69	76	92	25	43	66
3841	Shipbuilding and repairing	116	98	87	150	90	119	512	116	599	337	521	891	99	143	449
3842	Railroad equipment	332	334	564	562	1102	848	481	461	1662	621	654	903	416	2031	1215
3843	Motor vehicles	43	40	40	56	48	32	176	116	98	150	133	147	48	86	122
3844	Motorcycles and bicycles	866	910	1476	141	178	577	837	566	518	751	694	1011	1193	647	1274
3845	Aircraft	69	92	74	1087	850	733	1311	962	988	401	442	396	126	262	246
3849	Transport equipment nec	88	314	286	38	149	138	3905	701	1106	0	0	0	0	0	974
385	Professional goods	36	23	16	39	36	34	65	62	64	218	92	77	42	53	54
39	Other manufacturing	9	9	7	7	5	12	37	35	40	19	23	34	44	58	32
3	Total manufacturing ¹	24	26	30	46	43	33	122	124	146	298	271	204	82	117	194

1. Weighted average (with production weights) of sectoral concentration indexes.

Source: Calculations based on appendix tables, using Schmalensee's (1977) method.

Appendix Tables

Basic information on enterprises/establishment, employment, gross output and value added is derived from censuses of manufactures, industrial surveys and additional sources as described above. In some cases we faced gaps in the data, because the information was not sufficiently disaggregated among industries or among size categories. This was mostly the case for the data on gross output and value added. As long as information on enterprises and employment was available, our most common estimation procedure was to assume that the gross output per employee and value added per employee was the same as for "neighbouring" industries or size categories (method A). In case information on employment was also missing, we estimated the number of employees in two steps (method B): we first assumed that the average employment size of each establishment in the size category was the same as the median; next, the employment for each size category was adjusted proportionally with the ratio of the estimated employment to actual employment.

The estimates printed in italics indicate where estimation procedures were applied¹². Appendix Table A.1 shows the percentage share of the information which was estimated¹³.

France 1990

Source: For enterprises with 10 or more employees: SESSI, *La situation de l'industrie en 1990. Resultats agrégés de l'enquête annuelle de l'entreprise 1990*. The estimates for petroleum refining are derived from the same source for the year 1987, from which we derived the share of the industries in their aggregates. To obtain value added in the category 10-19 employees, we used the value added per employee in the size category 20-49 employees, which was multiplied with the number of employees in the size category 10-19 employees. For most industries there was a small residual category, which was distributed over the size categories on the basis of each category's proportional share in the total. In some other cases information on gross output and value added was disaggregated across size categories on the basis of method (A) described above.

Data on food products and beverages were obtained from: Ministère de l'agriculture et de la forêt, *Enquête annuelle d'entreprise 1990. Industries agricoles et alimentaires*.

No estimates are available for tobacco. Gross output represents sales of goods and services and merchanted goods. Value added is at market prices.

For enterprises with 1-9 employees we used: INSEE, *Petites Entreprises de l'artisanat, du commerce et des services, 1988*. In most cases we used the 1988 estimate for employment, from which we derived the number of enterprises by assuming that each enterprise has 5 employees on average. The gross value of output and value added was mostly derived by taking the ratios of gross output and value added per employee for enterprises with 1-9 employees to those with 10-19 employees from *Petites Entreprises*

12. Due to space constraints, the appendix tables do not show the data for 2-digit ISIC-categories. These can be derived as the sum of their three-digit components, however. In those cases where the three-digit components were estimated, the 2-digit data were available from the original sources.

13. The appendix tables are presented according to the ISIC classification. The industries corresponding to each ISIC code are shown in Table 5 of the main paper.

..., which were applied to the 10-19 employees from the *Enquête annuelle d'entreprise*. The estimates for the enterprises of 1-9 employees are not very reliable and include handicraft ("artisanat").

France 1977

Source: For enterprises with 10 or more employees: Ministère de l'industrie, *Enquête annuelle de l'entreprise 1977*. The estimates for shipbuilding and aircraft are for 1981, and derived from the same sources for 1981, applying the size distribution for 1984. For most industries there was a small residual category, which we distributed over the size categories on the basis of each category's proportional share in the total. In some other cases information on gross output and value added was disaggregated across size categories on the basis of method (A) described above.

Food products and beverages were obtained from: Ministère de l'agriculture, *Enquête annuelle d'entreprise 1979, industries agricoles et alimentaires*. These estimates are for 1979. No estimates are available for tobacco. Petroleum refining includes the extraction of oil. Gross output represents sales of goods and services and merchanted goods. Value added is at factor cost.

For enterprises with 1-9 employees we used the 1988/1990 ratio of enterprises, employment, gross output and value added from the 1990 table.

Since in aircraft there was no separation between the categories 1-9 and 10-19, it was assumed that one third of the totals for the size category of 1-19 employees related to the category of 1-9 employees.

France 1962

Source: INSEE, *Recensement de l'industrie 1963, Resultats pour 1962*. Some information was disaggregated for size categories according to method (B) described above.

For petroleum refining and aircraft we estimated the productivity for the largest sectors on the basis of a crude interpolation from the *Enquête annuelle d'entreprise* for 1984.

Ferrous and non-ferrous foundries were split up on the basis of the information on enterprises, employment, gross output and value added for 1977. Petroleum refining includes extraction of oil. Gross output represents sales of goods and services and merchanted goods. Value added is at factor cost.

Germany 1990

Source: For enterprises with 20 or more employees: Statistisches Bundesamt, *Kostenstruktur der Unternehmen, Reihe 4.3.1, 4.3.2 and 4.3.3*. Excludes publishing. We excluded repair and maintenance activities where possible. Petroleum and coal products are included in petroleum refining. For some size categories information was disaggregated according to method (B) described above.

For enterprises with 1-19 employees: Statistisches Bundesamt, *Betriebe, Beschäftigte und Umsatz im Bergbau und im Verarbeitenden Gewerbe nach Beschäftigtengroessenklassen, 1990*. Enterprises and employment relate to "industrielle Kleinbetriebe" for the end of September 1990. Gross output and value added were derived by using the ratio of sales per person employed (End September) for 1-19 employees in "industrielle Kleinbetriebe" to all local units in enterprises with more than

20 employees. This ratio was applied to the gross output and value added per employee from the Kostenstrukturerhebung.

Germany 1977

Source: For enterprises with 20 or more employees: Statistisches Bundesamt, *Kostenstruktur der Unternehmen, Reihe 4.3.1, 4.3.2 and 4.3.3*. Excludes publishing. We excluded repair and maintenance activities where possible. Petroleum and coal products are included in petroleum refining.

For some size categories information was disaggregated according to method (B) described above.

For enterprises with 1-19 employees we used: Statistisches Bundesamt, *Betriebe, Beschaeftigte und Umsatz im Bergbau und im Verarbeitenden Gewerbe nach Beschaeftigtengroessenklassen, 1977*. Enterprises and employment relate to "industrielle Kleinbetriebe" for the end of September 1977. Gross output and value added were derived by using the ratio of sales per person employed (End September) for 1-19 employees in "industrielle Kleinbetriebe" to all local units in enterprises with more than 20 employees. This ratio was applied to the gross output and value added per employee was taken from the *Kostenstrukturerhebung*.

Germany 1967

Source: Statistisches Bundesamt, *Zensus im Produzierenden Gewerbe 1967, Heft 3*. Excludes handicraft ("Handwerk"). Excludes publishing. Petroleum and coal products are included in petroleum refining. Office and computing equipment is not shown separately.

For six industries we derived the information for the aggregate from the *Zensus ..., Heft 5*, which included "Handwerk". The estimates for the size categories were derived according to method (B) described above.

In the case of industrial and other chemicals (as well as pharmaceuticals), radio and TV, and for motor vehicles, motor cycles and other transport equipment, the distribution among the sectors was based on the 1977 distribution.

Japan 1990

Source: MITI, *Census of Manufactures 1990, Report by Industries*, June 1992. Ice and animal feeds were moved from beverages to food products. Agricultural chemicals were moved from other chemicals to industrial chemicals. Electronic data processing equipment was moved from electrical machinery to machinery n.e.c.. Industrial trucks were moved from transport equipment to machinery n.e.c.. Some information was disaggregated for size categories according to method (B) described above. For petroleum refining and aircraft we estimated the productivity for the largest sectors on the basis of crude extrapolation from smaller size groups and the overall productivity level.

Japan 1975

Source: MITI, *Census of Manufactures 1975, Report by Industries*, October 1977. Plastic products were separated from leather and leather products. Agricultural chemicals were moved from other chemicals to industrial chemicals. Electronic data processing equipment was moved from electrical machinery to machinery n.e.c.. Industrial trucks were moved from transport equipment to machinery n.e.c.. Value added was derived as the difference between the value of shipments and material inputs.

Some information was disaggregated for size categories according to method (B) described above. For petroleum refining we estimated the productivity for the largest sectors on the basis of crude extrapolation from smaller size groups and the overall productivity level.

Japan 1967

Source: MITI, *Census of Manufactures 1967, Report by Industries*, October 1969. Plastic products were separated from leather and leather products. Agricultural chemicals were moved from other chemicals to industrial chemicals. Electronic data processing equipment was moved from electrical machinery to machinery n.e.c.. Industrial trucks were moved from transport equipment to machinery n.e.c.. Value added was derived as the difference between the value of shipments and material inputs.

Some information was disaggregated for size categories according to method (B) described above. For petroleum refining we estimated the productivity for the largest sectors on the basis of crude extrapolation from smaller size groups and the overall productivity level.

United Kingdom 1990

Source: Business Monitor, *Report on the Census of Production 1990*. Gross output and value added for businesses from 1-100 employees was not subdivided. We therefore applied method (A) described above to obtain gross output and value added. For some additional size categories information was disaggregated according to method (B) described above.

United Kingdom 1977

Source: Business Monitor, *Report on the Census of Production 1977*. Gross output and value added for establishments from 1-100 employees was not subdivided. We therefore applied method (A) described above to obtain gross output and value added. For some additional size categories information was disaggregated according to method (B) described above.

United Kingdom 1968

Source: Department of Trade and Industry, Business Statistics Office, *Report on the Census of Production 1968*. The category 1-20 employees represents to 1-24 employees and can therefore not directly be compared with the estimates for 1977 and 1990. The estimates for 20-49 employees refer to the category of 25-49 employees. Almost all industries also had an entry on "unsatisfactory returns". These were proportionally distributed over the other size categories.

For some size categories information was disaggregated according to method (B) described above.

United States 1987

Source: US Dept. of Commerce, *1987 US Census of Manufactures*

Some information was disaggregated for size categories according to method (B) described above.

United States 1977

Source: US Department of Commerce. *1977 US Census of Manufactures*, 1979.

Some information was disaggregated for size categories according to method (B) described above.

United States 1967

Source: US Dept. of Commerce, *1967 US Census of Manufactures*, 1971.

Some information was disaggregated for size categories according to method (B) described above.

Table A.1. **Percentage share of information based on estimation procedures**

	Enterprises/ establishments ^a	Employment	Gross value of output	Value added
France (1962)	1	5	5	6
France (1977)	73	12	13	11
France (1990)	80	16	25	31
Germany (1967)	20	36	35	38
Germany (1977)	3	13	19	18
Germany (1990)	5	13	20	17
UK (1968)	0	6	12	8
UK (1977)	0	2	16	17
UK (1990)	0	1	21	23
Japan (1967)	0	0	0	0
Japan (1975)	0	1	2	3
Japan (1990)	0	1	3	3
USA (1967)	0	1	2	1
USA (1977)	0	0	1	0
USA (1987)	0	1	1	1

a) France, Germany and United Kingdom are enterprises; Japan and United States are establishments.

Table A.2. FRANCE, Number of enterprises, by size category

ISIC Code	FRANCE, 1962					FRANCE, 1977					FRANCE, 1990							
	Number of enterprises					Number of enterprises					Number of enterprises							
	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	12,600	1,313	1,301	520	390	59	38,254	871	1,410	503	523	112	46,085	1,064	1,452	569	523	109
2	6,479	330	226	135	139	27	893	118	151	50	71	19	938	124	114	46	52	18
3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
4	10,204	1,204	1,341	672	793	170	2,359	545	926	425	563	115	3,218	563	996	374	393	47
5	53,583	1,537	1,242	496	388	48	10,584	1,006	1,055	459	453	68	9,110	1,142	1,136	446	332	24
6	8,975	338	304	96	75	6	679	201	265	94	60	6	736	195	217	53	36	3
7	4,314	251	350	210	179	20	1,035	96	175	111	140	26	839	78	120	74	87	13
8	12,757	935	774	227	117	12	2,278	350	692	231	173	10	3,244	497	483	161	97	4
9	17,613	865	614	198	89	7	8,205	457	591	218	192	17	9,016	500	439	165	115	11
10	1,192	281	399	170	225	38	459	155	298	151	212	48	667	225	312	143	192	32
11	9,910	1,108	904	285	241	42	11,628	973	1,112	293	255	49	20,079	1,668	1,421	356	235	41
12	525	126	154	69	101	37	409	66	132	74	113	35	462	70	96	63	109	33
13	1,917	374	395	199	234	48	1,424	240	331	149	256	79	1,370	212	327	194	229	94
14	406	98	132	75	96	18	324	68	84	44	116	30	219	42	75	46	100	50
15	85	27	32	14	19	12	4	13	30	8	15	8	3	9	24	7	8	7
16	354	22	3	7	6	10	0	1	4	0	1	4	0	1	3	0	1	3
17	998	85	109	53	81	21	164	48	90	43	54	22	258	74	73	41	46	20
18	1,571	269	289	94	93	5	1,112	287	454	191	168	29	2,145	548	662	291	216	29
19	1,623	210	219	100	113	19	230	42	68	28	38	17	314	56	62	46	36	12
20	852	141	115	38	44	22	527	87	77	32	35	22	717	117	69	44	34	22
21	5,373	464	385	92	69	14	3,809	637	756	216	149	34	3,955	658	657	187	98	22
22	410	125	188	125	171	84	317	58	123	95	124	73	261	62	131	61	99	38
23	432	151	164	90	65	16	373	93	115	77	70	26	401	81	118	58	76	19
24	8,573	1,028	1,013	377	355	51	8,597	1,886	2,306	690	569	91	12,647	2,767	2,565	680	422	49
25	53,214	2,165	2,119	792	711	121	6,692	1,069	1,451	630	623	107	9,063	1,643	2,002	682	498	93
26	615	14	11	5	13	9	60	11	9	1	9	8	482	80	65	28	24	7
27	5,625	555	549	267	295	105	2,276	398	662	294	373	153	3,045	523	572	186	200	85
28	295	121	122	68	55	15	65	53	110	53	43	21	294	157	153	59	50	21
29	29,877	1,041	684	236	236	120	809	367	342	161	209	141	1,548	264	382	168	246	112
30	850	115	117	51	50	19	0	191	47	15	20	10	180	30	51	15	15	3
31	16	3	10	7	10	13	9	2	10	9	18	12	10	2	11	9	12	5
32	28,659	845	445	140	127	56	680	118	216	107	128	83	1,195	206	257	111	176	71
33	296	59	88	20	25	6	98	12	52	19	23	8	71	11	36	15	9	4
34	56	19	24	18	24	26	22	44	17	12	21	27	92	15	27	18	34	29
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	5,545	198	194	67	88	20	3,426	231	285	119	85	22	4,290	290	268	103	96	23
37	10,531	629	511	175	125	18	4,501	407	505	155	164	21	5,356	485	412	146	105	17
38	265,415	15,767	14,593	5,805	5,455	1,162	111,102	10,709	14,418	5,498	5,700	1,365	140,247	13,997	15,179	5,372	4,605	988

Table A.3. FRANCE, Number of employees, by size category

ISIC code	FRANCE, 1962					FRANCE, 1977					FRANCE, 1990						
	Number of employees					Number of employees					Number of employees						
	1-9	10-19	20-49	50-99	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	22,446	18,052	40,405	35,797	78,881	152,401	13,367	48,002	38,264	109,567	149,621	180,964	16,149	48,729	42,357	111,385	123,522
2	6,716	4,543	7,246	9,576	29,313	4,678	1,953	5,346	3,896	17,372	27,113	4,690	1,958	3,779	3,493	11,545	24,419
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	15,319	16,866	43,326	47,359	166,028	11,855	7,244	28,975	28,660	109,915	134,480	16,088	8,069	29,874	24,739	69,676	46,058
5	39,723	20,851	38,300	34,000	73,999	46,373	12,903	32,488	31,336	88,477	57,833	45,549	14,298	31,707	26,233	51,389	15,469
6	5,604	4,502	6,444	4,628	15,564	3,193	2,905	8,480	6,723	10,540	5,000	3,678	3,033	7,109	3,774	7,198	3,567
7	3,702	3,460	11,347	14,772	35,175	4,805	1,379	5,901	7,817	29,120	32,339	4,195	1,226	4,550	5,439	18,770	14,325
8	19,767	12,659	23,868	16,105	20,848	10,685	5,094	22,834	16,921	32,113	13,737	16,219	7,710	16,010	11,706	17,530	4,054
9	20,104	11,734	18,548	13,445	15,970	38,442	6,475	18,768	15,671	37,535	15,202	45,081	7,578	14,344	12,346	22,737	9,774
10	3,600	3,951	12,603	11,967	48,516	1,942	2,321	9,527	11,603	46,778	51,908	3,041	3,634	10,690	10,958	44,112	36,148
11	19,001	15,121	27,942	19,261	48,187	37,666	13,933	35,384	21,267	53,717	56,467	67,255	24,531	45,251	26,078	48,252	40,777
12	1,550	1,725	4,948	4,846	20,928	1,889	876	4,524	5,123	25,261	123,591	2,311	1,038	2,868	4,280	25,199	75,007
13	5,053	5,226	12,259	14,150	48,051	7,655	3,390	10,904	10,263	59,584	93,292	5,447	3,170	10,629	13,682	53,865	109,552
14	1,306	1,354	3,999	5,216	20,542	1,546	976	2,859	3,138	29,704	26,656	1,097	629	2,388	3,224	25,216	46,838
15	377	396	1,163	991	4,352	18	188	942	518	3,770	40,429	13	136	862	402	1,956	19,793
16	37	44	240	220	1,272	0	15	78	0	153	77,304	2	15	87	0	146	22,643
17	1,828	1,192	3,489	3,658	16,632	791	678	3,162	3,049	11,068	94,866	1,289	1,104	2,465	2,941	10,508	67,543
18	3,415	3,775	8,940	6,732	17,676	5,264	4,238	15,080	13,109	34,399	29,963	10,724	8,479	21,817	20,672	41,919	26,938
19	2,899	2,923	7,041	7,074	21,119	1,059	590	2,231	2,090	7,799	18,301	1,508	865	2,065	3,492	7,700	12,747
20	1,964	1,939	3,678	2,608	9,378	2,581	1,268	2,395	2,325	7,468	56,922	3,584	1,759	2,245	3,244	7,959	36,902
21	9,825	6,326	11,713	6,419	14,263	18,617	9,187	23,842	14,982	30,690	45,484	19,777	9,631	21,551	12,841	20,991	22,217
22	1,205	1,821	6,037	8,905	39,889	1,635	884	4,002	6,749	28,249	260,365	1,307	918	4,506	4,595	21,580	79,155
23	1,233	2,141	5,226	6,382	14,129	1,889	1,438	3,783	5,625	17,323	61,300	2,003	1,206	4,023	4,155	16,885	35,348
24	15,139	14,206	31,367	25,446	72,894	40,280	26,775	73,900	49,267	112,814	93,178	63,233	41,936	82,936	48,162	84,155	46,230
25	43,607	29,614	66,613	54,771	138,544	31,731	18,156	50,388	48,342	156,762	158,882	45,315	25,166	65,391	48,709	96,442	95,698
26	3825	527	185	403	8,742	296	155	306	73	14,181	31,112	2,411	1,221	2,063	1,744	5,453	47,029
27	6,988	7,651	17,544	18,332	63,675	10,878	5,769	21,715	20,920	81,756	396,768	15,225	7,973	18,872	13,730	45,629	157,980
28	798	1,668	3,927	4,684	10,921	335	929	3,633	3,843	8,878	96,871	1,470	2,482	4,718	4,294	11,445	54,762
29	41,113	13,943	21,218	16,322	51,119	3,791	3,156	11,000	11,454	47,827	607,085	7,738	3,904	12,478	12,000	53,564	416,583
30	1,740	1,607	3,774	3,335	9,859	0	1,042	1,299	1,011	4,117	20,241	898	452	1,663	1,106	3,042	6,379
31	59	33	305	464	3,369	60	32	334	581	3,960	16,011	48	24	365	703	2,785	5,060
32	38,526	11,173	13,643	9,588	26,168	3,234	1,667	6,959	7,417	29,298	448,848	5,975	3,016	8,277	7,698	38,024	299,030
33	626	844	2,748	1,577	5,016	360	136	1,834	1,392	4,444	16,471	357	180	1,228	1,172	1,810	5,865
34	3845	162	286	748	1,358	137	278	574	1,054	6,008	105,515	460	232	945	1,321	7,903	100,249
35	3849	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	7,136	2,575	5,975	4,642	16,502	15,871	3,216	9,020	8,321	18,530	30,766	21,451	4,366	8,555	7,359	18,546	25,438
37	12,295	8,662	15,499	12,007	22,697	20,465	5,701	16,014	10,983	34,543	16,433	26,781	7,501	13,689	10,207	21,346	15,618
38	312,173	216,083	456,609	402,561	1,114,343	476,749	153,255	468,991	395,348	1,227,310	2,779,743	616,940	208,575	489,146	379,337	936,438	1,630,534

Table A.4. FRANCE, Gross output (million francs), by size category

ISIC Code	FRANCE, 1962						FRANCE, 1977						FRANCE, 1990					
	Gross output (million francs)						Gross output (million francs)						Gross output (million francs)					
	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	3,305	2,012	4,050	3,528	6,769	7,101	39,223	7,674	26,178	21,451	67,833	79,213	111,272	20,794	65,169	62,873	186,952	196,977
2	951	345	577	807	2,621	3,098	1,040	878	2,663	1,881	8,437	13,786	4,492	3,796	6,914	6,321	25,798	38,854
3	0	0	0	0	0	3,720	0	0	0	0	0	0	0	0	0	0	0	0
4	1,333	935	2,341	2,130	6,478	9,853	1,791	1,235	4,879	4,821	16,872	22,927	8,949	3,555	15,698	15,918	43,820	34,619
5	1,902	841	1,243	970	1,979	1,102	7,005	2,170	3,419	3,657	9,246	7,135	11,883	5,902	12,474	10,428	28,139	12,938
6	397	225	431	315	665	339	537	506	1,458	1,099	1,621	713	1,703	1,522	3,813	1,915	4,123	2,691
7	151	96	295	387	991	624	447	162	677	849	3,253	4,589	951	379	1,520	1,894	7,862	9,794
8	782	459	834	577	828	592	1,203	793	3,711	3,120	5,988	2,716	6,040	3,854	9,208	7,708	13,988	2,422
9	821	350	621	497	639	197	3,861	876	2,615	2,205	5,994	2,361	14,184	3,201	6,551	6,430	14,380	6,282
10	185	163	536	573	2,772	2,887	349	375	1,819	2,396	10,393	13,886	2,271	2,444	7,550	9,121	42,253	45,257
11	1,033	598	1,169	765	2,046	1,950	5,866	2,409	7,268	3,989	12,995	11,336	38,569	15,240	33,894	20,977	42,631	42,074
12	216	148	543	457	1,866	6,029	2,810	333	2,467	2,232	11,966	48,783	11,081	1,233	5,167	6,991	48,431	132,606
13	371	389	892	1,099	3,628	3,926	4,190	916	3,190	3,223	17,912	28,860	8,813	2,610	11,109	16,136	74,537	144,899
14	93	87	258	374	1,712	1,334	804	267	970	1,139	10,158	8,195	1,789	508	2,824	4,410	37,834	60,071
15	33	29	130	55	352	10,771	16	142	283	142	2,268	132,810	19	164	794	1,788	5,679	184,898
16	354	2	10	9	57	5,090	0	17	16	0	169	7,268	1	12	68	0	51	7,928
17	115	52	190	141	741	3,072	153	112	504	485	1,680	15,776	803	586	1,291	1,589	6,039	36,578
18	199	185	406	299	838	183	995	699	2,691	2,671	6,903	6,739	7,412	4,991	15,171	14,866	34,774	22,504
19	84	76	192	183	521	554	77	49	193	181	615	1,899	490	309	849	1,353	3,695	6,981
20	89	75	157	105	286	1,695	1,633	199	433	421	1,100	9,527	7,358	895	1,273	2,301	5,238	27,068
21	425	218	417	246	824	1,340	3,318	1,881	5,139	2,944	6,739	10,971	12,531	7,010	17,595	11,012	18,416	29,135
22	116	134	326	462	2,293	18,825	369	209	734	1,207	5,328	66,216	1,187	679	3,440	3,948	20,398	89,864
23	61	76	230	307	703	2,709	514	364	854	1,532	4,567	22,417	2,325	1,336	5,610	6,039	26,705	66,799
24	784	589	1,240	1,028	2,997	1,999	4,843	3,655	10,728	7,722	17,861	18,568	26,017	19,540	43,881	27,540	54,577	31,953
25	2,299	1,202	3,145	2,492	6,605	8,572	4,623	3,206	8,472	8,602	32,142	34,812	23,900	14,678	39,740	32,304	73,319	93,020
26	3825	29	6	15	13	84	10	6	61	14	4,524	10,133	1,724	1,022	1,672	962	4,341	69,789
27	383	375	302	892	848	2,920	1,396	869	3,524	3,475	13,491	75,602	6,966	4,272	11,212	9,665	32,249	129,366
28	3832	48	74	171	219	938	64	195	579	553	1,256	16,074	720	1,314	2,893	3,234	7,289	49,390
29	384	1,918	411	758	644	1,979	2,022	1,323	2,327	2,467	9,464	167,627	12,790	2,020	7,480	7,238	35,335	509,122
30	3841	74	46	136	102	299	0	873	555	499	1,374	5,816	1,378	217	998	577	1,741	4,093
31	3842	6	3	17	12	155	49	9	99	82	680	3,623	69	11	166	383	1,472	2,975
32	3843	1,788	315	453	409	1,081	1,704	277	1,191	1,362	5,301	106,541	10,015	1,583	4,927	4,977	26,539	400,627
33	3844	33	35	109	59	202	198	17	359	231	653	2,941	574	91	907	703	968	4,128
34	3845	18	11	43	63	242	72	146	123	294	1,456	48,707	753	119	481	598	4,616	97,299
35	3849	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	385	292	89	203	126	631	1,733	405	1,340	1,299	2,618	4,716	7,775	1,842	4,614	4,542	10,304	16,512
37	39	629	364	609	440	900	2,419	934	2,747	1,813	5,115	2,476	10,147	3,928	8,470	5,942	13,202	9,914
38	3	18,895	10,372	22,453	19,501	54,009	92,441	32,398	100,391	85,901	287,093	823,863	341,655	127,813	342,229	297,797	877,238	2,000,841

Table A.5. FRANCE, Gross value added (million francs), by size category

ISIC Code	FRANCE, 1962						FRANCE, 1977						FRANCE, 1990					
	Value added (million francs)						Value added (million francs)						Value added (million francs)					
	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	617	316	719	608	1,477	1,714	12,665	1,389	4,186	3,375	10,752	16,084	32,077	3,354	10,740	9,387	27,917	38,520
2	367	123	165	201	750	834	450	244	695	475	2,832	4,736	1,531	830	1,768	1,490	7,180	13,503
3	0	0	0	0	0	3,366	0	0	0	0	0	0	0	0	0	0	0	0
4	351	213	488	558	1,962	3,492	1,461	862	2,604	1,949	6,558	6,071	2,007	1,079	5,668	5,039	14,608	10,036
5	765	271	402	333	707	395	2,143	813	1,510	1,510	4,088	2,834	4,063	2,050	5,096	4,170	9,545	3,409
6	145	58	123	86	211	68	127	174	498	391	600	278	487	548	1,355	696	1,424	1,118
7	62	34	100	128	329	258	152	71	286	381	1,445	1,783	276	134	691	803	3,287	2,695
8	301	154	296	183	290	251	450	302	1,361	1,052	2,058	959	1,920	1,271	3,093	2,506	4,435	955
9	370	133	218	172	209	66	1,599	375	1,093	936	2,297	885	5,080	1,189	2,693	2,461	5,093	2,251
10	63	46	172	180	903	1,007	92	144	623	786	3,509	4,526	490	764	2,470	2,895	13,250	13,930
11	464	266	533	347	777	1,060	2,234	1,088	2,948	1,671	4,824	4,998	11,956	5,734	13,579	7,749	16,605	14,584
12	62	40	137	135	509	2,802	162	88	531	523	2,892	14,147	669	357	1,323	2,062	12,618	39,967
13	111	105	243	294	1,142	1,305	319	293	945	917	5,513	9,487	648	780	3,351	4,566	19,646	46,213
14	352	30	27	63	96	391	61	77	252	258	2,866	2,479	130	152	859	1,105	9,553	20,060
15	353	9	33	25	204	2,575	2	23	103	46	839	10,295	6	74	300	426	17,588	71,222
16	354	1	3	3	15	3,548	0	2	9	0	16	4,380	0	5	35	0	20	3,052
17	355	58	21	58	54	243	47	47	205	197	702	6,717	240	240	533	673	2,471	14,979
18	356	72	60	129	97	281	299	280	1,011	875	2,438	2,474	1,819	1,681	5,213	4,992	11,209	7,992
19	361	41	36	95	93	299	33	27	110	109	379	1,039	180	149	414	687	1,789	3,204
20	362	39	24	54	38	131	135	79	164	139	467	5,206	684	399	485	701	2,192	12,636
21	369	164	92	167	104	348	993	736	1,937	1,137	2,685	4,557	3,689	2,701	6,343	3,754	6,675	11,796
22	371	26	26	79	133	651	91	57	248	438	1,880	18,200	268	217	1,126	1,121	5,939	29,422
23	372	26	27	77	101	232	154	143	290	429	1,421	6,471	1,052	770	1,393	1,395	6,642	19,840
24	381	323	211	473	369	1,139	2,459	1,886	5,148	3,338	7,645	7,314	10,582	8,076	20,268	11,485	20,889	12,637
25	382	1,000	517	1,137	979	2,575	1,753	1,304	3,705	3,556	12,190	13,793	7,502	5,152	15,619	12,116	26,404	29,198
26	3825	20	2	6	5	45	2	2	27	6	2,486	5,588	637	455	679	471	2,029	31,003
27	383	156	116	289	291	1,149	516	385	1,560	1,466	5,621	32,240	2,098	1,549	4,483	3,570	11,436	44,903
28	3832	13	29	64	79	169	18	73	253	285	556	7,642	190	511	1,153	1,241	2,672	17,989
29	384	817	201	310	263	815	208	283	953	987	3,982	62,489	862	522	2,725	2,629	12,389	131,389
30	3841	36	23	60	54	143	0	144	284	272	707	1,845	117	70	366	267	657	1,115
31	3842	1	0	4	5	52	4	2	26	41	273	1,225	7	4	74	154	614	1,094
32	3843	767	161	199	162	432	171	106	462	476	1,985	37,463	604	366	1,763	1,664	8,519	92,951
33	3844	11	11	32	20	82	24	12	119	83	263	1,080	63	38	280	234	380	1,345
34	3845	2	6	15	21	107	10	20	62	115	754	20,875	72	43	243	311	2,220	34,884
35	3849	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	385	162	33	98	82	296	820	212	617	574	1,167	2,247	2,904	760	1,993	1,818	4,505	6,517
37	39	258	123	213	152	371	977	387	1,109	768	2,258	1,208	3,903	1,544	3,282	2,242	5,118	4,114
38	3	6,850	3,257	6,818	6,011	18,030	30,343	11,695	34,474	28,033	93,546	251,001	97,630	42,383	116,718	91,843	272,902	621,084

Table A.6. GERMANY, Number of enterprises, by size category

ISIC Code	GERMANY, 1967					GERMANY, 1977					GERMANY, 1990				
	Number of enterprises					Number of enterprises					Number of enterprises				
	1-19	20-49	50-99	100-499	500+	1-19	20-49	50-99	100-499	500+	1-19	20-49	50-99	100-499	500+
1	5,565	1,273	706	806	96	2,109	1,414	631	616	110	1,481	1,440	727	695	137
2	456	335	192	87	54	1,629	514	278	199	61	1,081	314	170	223	31
3	143	39	24	44	12	69	20	9	12	12	25	11	4	9	7
4	2,794	927	614	823	201	2,252	600	419	602	141	1,885	424	294	390	89
5	3,722	1,394	781	797	92	2,871	1,229	712	569	57	2,955	856	483	342	38
6	929	357	185	177	18	630	226	115	65	4	577	143	64	41	2
7	227	149	105	87	19	184	125	82	90	18	160	74	37	45	17
8	6,443	643	259	444	24	5,108	906	299	254	18	4,474	710	261	202	18
9	1,245	854	406	117	30	596	707	359	309	51	811	608	275	301	43
10	967	449	251	341	66	938	343	187	222	36	951	346	179	228	40
11	3,711	1,197	507	411	53	4,429	1,076	446	309	32	7,607	1,167	479	323	26
12	1,294	372	165	180	72	1,120	281	153	181	78	971	256	145	232	62
13	1,524	217	130	170	59	1,320	164	121	170	63	986	137	117	163	94
14	577	118	60	94	30	500	89	56	94	32	312	70	1	152	42
15	23	23	16	22	14	35	15	10	16	13	30	18	3	19	11
16	354	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	232	80	43	76	42	210	91	41	69	34	225	94	27	63	37
18	1,811	477	234	237	31	2,689	736	384	353	46	3,274	904	542	551	87
19	239	71	44	81	34	215	49	26	55	25	305	66	19	41	22
20	688	130	55	83	36	507	80	81	75	62	474	133	52	74	27
21	3,921	1,178	449	338	30	2,667	953	363	266	38	3,529	608	353	247	37
22	310	236	151	224	110	307	180	174	180	101	398	147	108	200	79
23	337	141	71	83	42	321	149	67	116	38	297	127	73	139	41
24	7,001	1,979	1,135	1,320	223	6,644	2,184	1,141	1,083	167	7,353	2,362	1,252	1,224	190
25	2,201	1,227	932	1,251	386	2,996	1,810	1,065	1,297	368	4,075	2,046	1,415	1,528	402
26	3825	0	0	0	0	71	10	11	11	46	242	52	34	44	14
27	1,427	564	387	579	219	2,567	848	490	615	248	4,799	1,122	724	842	293
28	105	23	21	24	27	189	35	27	25	31	308	34	33	21	47
29	237	183	110	181	106	452	251	141	221	198	496	261	155	257	158
30	32	25	17	42	18	50	7	16	31	71	65	32	15	29	13
31	10	4	10	12	12	14	6	11	12	11	3	3	3	2	6
32	134	124	62	107	67	202	187	93	161	101	286	181	103	196	121
33	50	14	6	6	1	76	21	9	9	2	58	18	11	17	4
34	11	7	9	13	8	34	14	5	4	12	58	17	13	10	12
35	0	9	7	2	1	76	16	7	4	1	26	10	10	3	2
36	832	272	158	195	60	766	763	248	207	46	931	659	223	208	47
37	1,522	337	152	120	12	1,836	475	167	145	15	2,222	364	150	134	22
38	49,801	15,104	8,262	9,275	2,142	45,538	16,199	8,220	8,307	2,126	52,614	15,449	8,365	8,765	2,071

Table A.7. GERMANY, Number of employees, by size category

ISIC Code	GERMANY, 1967					GERMANY, 1977					GERMANY, 1990				
	Number of Employees					Number of employees					Number of employees				
	1-19	20-49	50-99	100-499	500+	1-19	20-49	50-99	100-499	500+	1-19	20-49	50-99	100-499	500+
1	33,100	39,608	48,713	154,163	158,514	16,015	44,179	43,670	118,104	152,082	11,551	46,876	50,658	135,883	171,933
2	4,554	11,710	14,382	30,412	40,989	9,105	17,055	19,680	46,324	53,067	5,884	10,556	12,122	48,314	24,363
3	872	1,283	1,783	8,608	25,395	466	707	681	2,206	21,325	132	366	286	2,337	12,967
4	15,882	29,809	43,240	181,542	219,901	13,999	20,022	29,332	130,245	145,043	12,200	14,038	20,904	83,430	88,156
5	24,169	44,224	54,088	157,639	91,406	20,933	39,678	49,921	113,222	51,248	20,260	28,242	32,829	66,161	37,686
6	5,622	10,929	12,132	22,337	15,296	4,927	7,329	7,992	14,725	2,920	3,825	4,828	4,384	8,414	1,502
7	2,275	5,226	7,891	30,512	47,596	1,525	4,187	5,729	18,411	24,454	1,083	2,466	2,433	9,119	12,918
8	29,092	16,576	15,919	67,449	3,210	27,780	27,293	19,957	46,976	20,368	24,577	21,969	17,780	39,753	15,954
9	12,435	29,855	30,414	40,902	44,947	4,355	22,989	25,023	66,826	42,318	5,346	20,163	19,682	60,654	39,781
10	7,167	14,246	17,798	72,962	86,068	6,903	10,969	13,382	47,002	41,080	6,903	11,324	12,964	47,507	44,548
11	26,034	36,631	34,894	84,180	59,206	27,539	33,651	30,665	61,695	31,904	45,548	37,468	32,432	61,292	28,586
12	7,736	11,312	11,500	39,668	33,1766	7,788	8,768	10,876	40,308	364,608	7,392	8,536	10,380	57,868	319,645
13	7,035	7,017	8,966	35,952	114,940	7,082	5,439	8,479	36,532	126,319	5,993	4,602	7,901	28,112	167,811
14	3,122	3,701	4,263	20,121	49,235	3,143	2,869	4,032	20,446	54,109	2,030	2,211	68	25,437	71,790
15	162	756	1,138	5,060	36,585	346	543	719	3,768	29,567	300	645	230	4,023	20,102
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1,384	2,642	2,988	19,759	88,864	1,397	2,905	2,869	15,985	91,484	1,768	3,299	2,031	13,932	87,442
18	10,872	14,947	16,364	46,710	36,979	17,713	23,795	27,165	68,757	42,917	23,915	30,347	37,748	108,806	100,204
19	1,424	2,254	3,148	19,655	52,151	1,371	1,550	1,861	14,220	36,722	1,590	2,327	1,435	10,621	33,277
20	3,550	3,954	3,669	21,084	50,862	2,925	2,800	6,075	22,500	46,501	2,995	4,653	3,898	16,870	44,644
21	24,551	34,255	30,248	57,593	45,158	20,381	28,862	24,729	48,982	54,085	24,784	18,715	24,416	46,055	39,248
22	2,525	7,731	10,927	50,187	477,557	2,594	6,218	12,521	46,291	384,003	3,116	5,184	8,087	42,885	236,210
23	2,355	4,431	4,971	17,403	85,129	2,690	4,884	4,925	25,683	64,985	2,585	4,470	3,760	28,655	22,701
24	39,513	62,826	79,299	272,623	253,856	40,965	68,583	80,380	222,738	221,759	50,537	79,354	88,665	243,776	225,718
25	16,093	39,660	66,511	273,803	672,803	22,214	58,857	75,947	280,621	611,061	33,916	69,924	98,825	324,808	598,671
26	3825	0	0	0	0	430	351	827	3,308	69,163	1,589	1,827	2,560	9,084	77,780
27	8,697	18,226	27,085	126,774	733,544	15,077	27,459	34,390	134,208	818,246	30,214	37,005	50,951	183,350	854,013
28	579	813	1,594	7,080	107,608	1,004	1,224	2,024	7,495	120,033	1,651	1,194	2,482	6,315	70,666
29	2,064	6,712	8,584	45,332	540,958	3,358	8,597	10,290	54,349	708,197	3,506	9,014	11,256	61,439	865,676
30	307	784	1,263	9,991	58,914	356	245	1,200	9,301	53,257	416	1,120	1,124	6,374	25,090
31	99	142	723	3,514	9,086	137	210	825	3,601	8,253	12	108	232	619	9,278
32	1,179	4,645	4,886	26,495	438,736	1,620	6,381	6,711	36,396	602,691	2,177	6,203	7,329	46,106	762,771
33	384	537	493	1,971	1,095	527	737	677	2,708	1,505	302	628	823	4,410	2,996
34	95	246	671	2,702	30,563	189	487	373	1,194	41,774	320	596	977	3,006	64,000
35	3849	0	549	659	2,563	529	536	503	1,149	718	279	360	771	925	1,542
36	5,101	8,774	11,135	40,396	85,931	4,936	23,522	17,389	42,566	72,027	6,591	20,520	15,027	43,302	63,472
37	8,047	10,535	10,415	22,588	12,575	10,641	15,019	11,799	30,498	13,266	11,213	11,689	10,269	26,854	16,741
38	302,311	476,129	578,202	1,945,294	4,412,186	295,455	516,209	577,273	1,757,051	4,340,719	349,313	510,408	583,913	1,813,304	4,251,750

Table A.8. GERMANY, Gross output (million D-Mark)

ISIC code	GERMANY, 1967					GERMANY, 1977					GERMANY, 1990				
	Gross output (million DM)					Gross output (million DM)					Gross output (million DM)				
	1-19	20-49	50-99	100-499	500+	1-19	20-49	50-99	100-499	500+	1-19	20-49	50-99	100-499	500+
1	4,720	4,943	5,147	16,584	17,461	4,074	8,254	10,272	30,086	32,604	4,589	10,425	14,284	47,979	64,435
2	333	856	1,051	2,222	2,995	2,313	3,355	3,274	9,857	14,356	1,789	4,254	4,619	24,142	10,079
3	31	49	86	679	8,154	58	93	90	227	13,546	7	89	110	1,406	23,095
4	613	1,264	1,784	7,673	9,285	1,115	1,714	2,592	12,250	13,877	1,834	2,222	4,013	16,860	17,312
5	790	1,309	1,680	5,105	3,178	1,450	2,351	3,192	8,704	4,260	2,576	2,897	4,303	12,521	6,872
6	178	374	466	859	790	347	649	687	1,245	249	474	800	739	1,443	447
7	70	160	241	933	1,456	65	254	394	1,298	1,778	125	324	394	1,634	2,315
8	1,208	565	640	3,393	377	2,918	2,760	2,115	5,809	2,679	4,315	4,215	3,535	8,581	4,019
9	559	1,342	1,367	1,838	2,020	366	2,034	2,389	7,328	4,938	680	2,920	3,229	11,686	7,447
10	247	521	719	3,547	5,287	616	908	1,155	5,355	5,069	1,128	1,917	2,381	10,299	12,913
11	840	1,074	1,066	2,818	2,530	2,048	2,482	2,508	5,353	3,357	5,887	5,770	5,367	11,399	6,227
12	534	942	1,000	3,510	25,860	1,422	1,739	2,204	7,897	73,396	2,991	3,408	4,229	24,422	109,974
13	352	369	479	2,292	7,385	911	681	1,056	5,157	20,960	1,013	684	1,497	4,166	49,953
14	135	191	233	1,382	2,972	354	352	514	3,109	8,436	367	612	19	6,735	20,809
15	12	58	109	1,897	18,340	107	119	142	3,750	50,436	118	254	91	8,688	84,186
16	354	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	355	95	112	761	3,926	170	277	296	1,282	9,440	290	553	340	2,331	17,432
18	356	512	602	2,090	1,792	1,820	2,251	2,596	6,933	5,282	4,063	5,269	6,997	21,450	21,697
19	361	40	59	470	1,391	83	86	102	768	2,171	272	210	129	1,202	3,623
20	362	122	155	716	2,292	223	263	570	2,112	4,364	431	855	716	3,033	8,961
21	369	1,403	1,730	2,890	2,905	4,141	3,616	2,987	6,010	6,697	10,250	4,632	5,968	11,042	10,066
22	371	122	363	2,405	26,724	316	750	1,486	5,598	50,115	805	1,340	2,203	10,363	59,822
23	372	158	225	1,435	6,208	392	797	675	4,485	12,241	1,075	987	1,340	7,798	25,042
24	381	1,564	2,393	10,905	10,965	3,783	6,099	7,281	20,409	26,276	7,855	12,497	15,214	43,932	44,379
25	382	682	1,461	11,102	30,988	218	4,978	6,731	26,247	66,214	5,916	11,956	17,085	61,395	125,705
26	3825	0	0	0	0	47	53	124	496	10,362	435	420	589	2,594	26,351
27	383	359	661	4,972	29,048	1,377	2,168	3,017	11,740	81,242	4,264	5,554	8,357	31,993	170,234
28	3832	32	32	273	4,944	123	105	174	645	13,828	436	284	592	1,708	19,112
29	384	85	247	1,859	29,923	339	828	982	5,701	100,619	713	1,559	1,950	12,028	249,454
30	3841	11	23	414	2,582	15	27	132	1,023	5,860	48	170	171	1,314	5,906
31	3842	12	6	147	372	34	20	79	347	795	5	16	35	93	1,394
32	3843	45	175	1,093	25,506	161	621	628	3,876	90,428	523	1,096	1,297	9,140	226,620
33	3844	13	18	68	38	45	65	60	240	133	56	130	177	879	719
34	3845	4	11	111	1,322	13	39	30	95	3,328	38	91	148	457	14,571
35	3849	0	15	27	104	72	56	53	120	75	43	57	121	146	243
36	385	200	291	1,270	2,534	433	1,518	1,365	3,384	5,698	935	2,279	2,020	6,968	10,854
37	39	319	392	786	335	823	1,167	954	2,504	1,102	1,511	1,626	1,682	3,853	2,644
38	3	16,145	22,517	26,987	95,012	254,148	31,973	52,244	61,234	201,985	66,341	89,916	113,379	405,209	1,175,539

Table A.9. GERMANY, Value Added (million D-Mark), by Size Category

ISIC code	GERMANY, 1967					GERMANY, 1977					GERMANY, 1990				
	Value added (million DM)					Value added (million DM)					Value added (million DM)				
	1-19	20-49	50-99	100-499	500+	1-19	20-49	50-99	100-499	500+	1-19	20-49	50-99	100-499	500+
1	1,105	1,123	1,318	5,257	6,288	985	1,940	2,181	7,065	10,223	1,577	2,667	3,819	12,562	25,197
2	234	600	737	1,559	2,102	1,025	1,493	1,684	4,725	5,948	739	1,812	2,255	11,176	5,948
3	15	29	59	512	6,858	50	72	69	162	11,811	6	75	41	826	19,469
4	318	612	862	3,524	4,305	499	746	1,184	5,436	6,265	808	1,052	1,710	7,328	7,713
5	412	661	798	2,393	1,574	654	1,142	1,411	3,885	1,910	1,059	1,520	1,848	4,754	2,813
6	95	174	230	405	354	174	299	330	586	118	225	362	323	626	132
7	37	86	130	502	784	32	124	198	658	848	50	152	132	653	925
8	556	231	306	1,689	139	1,249	1,246	918	2,632	1,265	1,868	1,852	1,487	3,965	1,848
9	312	749	763	1,027	1,128	185	1,075	1,216	3,607	2,516	339	1,550	1,676	5,813	3,700
10	136	278	386	1,760	2,503	304	510	610	2,678	2,355	523	928	1,053	4,823	5,945
11	599	755	736	1,884	1,572	1,281	1,612	1,550	3,399	2,011	3,391	3,572	3,163	6,395	3,440
12	265	426	456	1,552	14,350	623	706	898	3,455	34,040	1,385	1,464	1,829	10,200	57,070
13	224	248	317	1,404	5,014	514	412	623	3,126	11,893	683	481	777	3,365	27,253
14	98	136	174	943	2,257	229	226	343	2,099	5,355	228	373	11	4,469	12,706
15	6	30	45	757	9,529	37	39	65	2,067	16,534	55	118	42	3,020	28,581
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	53	60	68	427	2,120	88	129	136	704	4,880	146	288	177	1,252	8,646
18	298	341	361	1,099	891	935	1,172	1,439	3,576	2,577	2,051	2,643	3,557	10,711	11,061
19	28	44	68	335	1,010	59	65	77	554	1,552	194	152	94	830	2,602
20	65	81	77	445	1,452	136	160	347	1,283	2,652	246	417	350	1,627	5,347
21	900	1,059	936	1,765	1,730	2,108	1,947	1,569	3,381	3,787	5,806	2,397	3,397	5,979	5,853
22	60	178	272	1,129	12,757	137	351	667	2,453	20,634	332	514	814	4,538	27,739
23	60	97	111	380	1,987	166	296	292	1,394	4,081	419	440	529	2,971	8,555
24	936	1,354	1,788	6,056	5,815	2,021	3,415	4,003	11,295	12,394	4,266	7,238	8,354	23,861	22,532
25	429	907	1,528	6,510	17,182	117	2,962	3,835	14,787	34,516	3,174	6,976	9,671	33,570	65,742
26	0	0	0	0	0	34	38	90	359	7,508	221	233	326	976	13,705
27	209	383	564	2,741	16,214	771	1,181	1,706	6,535	45,573	2,311	3,153	4,646	17,225	92,197
28	16	19	31	147	2,331	59	57	95	350	6,553	164	127	264	637	7,133
29	49	139	171	927	14,222	173	436	499	2,724	45,830	340	756	961	5,517	101,624
30	7	15	23	187	1,112	7	12	61	473	2,710	18	93	93	522	2,182
31	7	3	15	73	190	16	10	38	166	381	3	8	17	46	693
32	26	97	96	546	12,039	87	327	323	1,839	40,514	251	513	622	4,207	90,560
33	7	10	9	37	21	23	34	31	125	70	26	58	75	388	268
34	3	6	16	69	806	8	25	19	61	2,118	20	55	90	278	7,794
35	0	8	12	14	54	32	28	26	59	37	22	30	63	76	127
36	114	181	218	771	1,615	264	987	810	2,029	3,459	547	1,490	1,251	4,090	6,111
37	167	223	205	467	233	485	686	510	1,470	728	853	918	863	2,236	1,516
38	7,681	11,051	13,511	47,279	133,727	15,106	25,241	28,917	96,027	297,908	33,613	45,219	55,147	190,892	563,265

Table A.10. JAPAN, Number of establishments, by size category

ISIC code	JAPAN, 1967						JAPAN, 1975						JAPAN, 1990					
	Number of Establishments						Number of Establishments						Number of Establishments					
	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	72,036	9,540	4,600	1,809	1,358	80	64,391	10,449	4,969	2,106	1,473	93	46,604	8,923	7,877	2,643	1,881	87
2	2,459	2,164	1,117	213	144	23	2,189	1,452	707	190	170	21	5,481	971	701	211	170	9
3													0	0	1	3	30	2
4	86,442	10,105	5,982	2,086	1,418	284	98,820	7,964	4,465	1,620	1,090	152	67,020	5,159	3,855	1,130	715	35
5	21,204	4,381	2,205	823	389	13	31,555	6,122	3,429	1,443	636	9	37,593	6,715	5,402	1,644	672	4
6	4,551	555	244	83	21	1	6,602	620	219	52	23	1	7,378	665	374	61	23	0
7	1,491	237	138	41	28	4	1,642	314	154	68	32	6	2,877	428	298	94	40	1
8	36,823	8,637	4,524	861	330	19	34,687	7,654	3,435	638	287	18	25,975	4,344	2,157	344	161	3
9	28,148	3,453	1,622	478	230	10	34,878	3,436	1,809	558	268	12	35,585	2,818	1,711	445	218	11
10	11,189	2,631	1,737	637	481	65	12,793	2,739	1,765	658	392	58	10,407	2,359	2,114	681	401	37
11	17,080	4,743	2,710	823	469	55	30,468	5,261	2,708	785	438	56	38,115	5,834	3,912	1,052	608	57
12	735	387	451	244	312	89	386	265	338	234	294	123	495	354	493	246	299	76
13	1,894	660	613	325	336	101	1,939	747	704	347	395	66	1,574	645	879	445	465	59
14	527	229	256	118	131	27	508	231	245	131	175	31	352	174	264	189	219	31
15	7	2	10	6	24	0	4	2	4	3	28	24	13	2	6	6	37	10
16	224	168	143	47	25	17	463	209	108	35	12	9	798	224	121	19	15	2
17	2,744	786	547	197	192	61	5,057	1,144	549	193	148	48	6,149	1,164	928	250	218	47
18	1,184	173	64	19	10	0	1,709	208	72	26	6	0	18,628	4,314	3,353	1,008	643	28
19	4,765	929	429	237	163	21	6,788	842	471	208	136	19	9,156	880	660	236	148	15
20	1,439	284	302	136	88	31	1,524	232	291	116	77	30	1,340	264	297	127	105	27
21	13,012	3,047	2,141	759	473	30	14,092	4,236	3,149	866	428	25	9,925	3,737	3,536	568	246	9
22	2,170	1,629	1,507	550	469	128	4,217	1,676	1,454	536	474	129	4,242	1,574	1,405	456	367	79
23	2,069	701	524	195	217	83	3,809	863	573	223	241	86	3,818	828	734	268	252	49
24	40,024	8,402	4,426	1,389	780	52	70,486	10,058	4,996	1,438	775	66	70,280	10,193	6,657	1,624	854	62
25	20,312	6,285	4,126	1,610	1,166	172	40,812	7,108	4,436	1,491	1,146	203	56,302	8,869	6,363	2,015	1,395	220
26	1,594	603	430	162	156	34	2,999	828	585	269	229	61	2,002	756	925	390	320	91
27	7,973	3,583	2,713	1,439	1,149	299	16,532	5,332	4,079	1,861	1,450	341	21,177	7,163	7,773	3,020	2,514	539
28	835	399	350	213	236	89	2,131	958	1,016	447	399	106	1,603	641	1,146	426	377	100
29	10,395	2,483	1,818	840	698	231	13,955	2,790	2,051	900	762	260	13,856	2,975	2,637	1,042	951	297
30	3,825	547	376	159	118	58	4,123	725	469	208	166	75	2,637	457	342	107	79	24
31	303	96	83	37	30	13	399	78	78	28	11	5	423	92	91	19	15	5
32	5,454	1,603	1,166	561	495	142	8,123	1,713	1,333	600	541	163	9,689	2,133	1,987	844	825	251
33	479	149	112	44	35	5	852	184	115	49	32	4	598	178	124	44	19	3
34	37	9	12	5	5	11	96	20	21	5	8	13	172	37	53	17	8	14
35	297	79	69	34	15	2	362	70	35	10	4	0	337	78	40	11	5	0
36	5,077	1,378	890	338	258	57	8,051	1,495	936	378	290	69	7,824	1,414	1,251	447	337	72
37	38,430	5,458	2,757	992	581	50	49,840	6,718	3,394	1,049	648	44	32,246	2,961	1,859	459	214	22
38	435,471	83,404	48,770	17,339	11,965	2,010	560,688	90,764	51,850	18,291	12,348	2,029	536,860	86,533	68,279	20,934	14,299	1,950

Table A.1.1. JAPAN, Number of employees, by size category

ISC code	JAPAN, 1967						JAPAN, 1975						JAPAN, 1990					
	Number of Employees						Number of Employees						Number of Employees					
	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	279,827	134,628	141,153	124,506	258,027	60,938	261,333	150,199	155,269	145,253	276,388	67,846	199,606	124,011	232,174	182,850	347,267	72,984
2	15,296	30,985	32,892	14,273	29,159	17,622	13,288	20,338	20,993	13,090	33,026	14,783	20,322	13,409	20,501	14,864	33,001	6,488
3	314												0	0	23	275	7,745	1,364
4	304,076	142,945	183,645	142,776	283,874	247,856	306,612	112,041	138,381	110,253	214,035	114,347	205,357	70,611	113,672	77,640	135,227	22,232
5	86,971	62,367	69,479	56,513	64,200	11,444	126,030	88,231	108,519	97,713	103,146	7,163	149,455	92,867	158,929	111,232	105,354	2,861
6	16,949	7,611	7,378	5,394	4,255	949	22,679	8,572	6,569	3,532	4,212	360	26,294	9,003	10,630	4,199	3,969	29
7	5,209	3,415	4,375	2,761	5,871	3,433	6,013	4,478	4,819	4,554	5,744	4,312	9,659	5,893	8,572	6,371	6,867	724
8	150,580	122,323	134,900	56,123	60,750	14,703	147,595	106,806	100,660	42,297	55,131	12,832	106,304	58,828	60,908	22,987	28,488	1,759
9	100,900	48,289	49,245	31,914	42,758	6,912	118,310	48,195	55,708	37,784	47,385	7,185	114,434	38,329	49,749	30,606	38,284	6,827
10	48,812	37,226	53,802	43,801	88,199	59,259	56,153	38,555	54,096	45,331	71,733	53,594	45,509	32,730	62,431	47,452	71,525	34,377
11	78,787	66,276	82,586	55,436	86,725	69,296	126,542	73,121	82,215	53,443	86,477	72,484	149,805	79,544	113,638	71,384	114,734	68,875
12	3,102	5,628	14,448	17,360	66,431	107,498	2,010	3,841	10,822	16,352	63,042	149,777	2,635	4,993	15,195	17,213	61,998	76,515
13	9,136	9,442	19,194	22,829	70,834	135,050	9,567	10,764	22,128	24,398	81,030	67,067	7,796	9,020	27,057	31,482	91,219	57,515
14	2,722	3,299	7,961	8,578	28,531	30,364	2,738	3,358	7,809	9,251	37,796	32,568	1,932	2,477	8,135	13,519	43,961	29,005
15	71	33	331	504	6,407	0	28	28	135	286	8,134	18,478	56	27	164	418	10,007	6,848
16	1,272	2,444	4,565	3,333	3,885	12,773	2,640	2,971	3,181	2,320	2,498	6,738	4,387	3,016	3,428	1,288	2,953	1,077
17	12,420	11,339	17,566	13,697	41,059	74,830	21,692	16,218	16,853	13,050	34,134	58,861	25,915	16,027	27,328	17,056	44,507	47,940
18	4,681	2,406	1,956	1,353	1,294	0	6,325	2,898	2,246	1,606	835	18,066	83,926	59,571	97,898	69,720	118,805	23,165
19	21,194	12,856	13,453	16,285	30,115	24,231	27,087	11,548	14,524	14,255	24,281	18,066	33,143	12,165	20,119	16,239	27,258	17,715
20	5,834	4,004	10,121	9,414	17,679	29,474	5,750	3,318	9,370	7,867	17,569	26,379	5,132	3,763	9,211	9,039	22,181	22,645
21	57,623	44,058	66,833	52,438	88,901	25,484	62,103	60,850	96,238	59,083	78,515	20,694	44,398	52,955	99,248	37,926	42,492	5,874
22	10,966	23,818	47,303	38,252	96,794	281,092	19,250	23,514	44,671	36,743	99,384	282,833	19,889	21,928	42,053	31,736	72,104	153,673
23	9,869	10,036	16,348	13,386	44,041	91,328	16,906	12,218	17,740	15,458	52,504	94,155	16,612	11,392	21,759	19,030	52,556	52,186
24	158,010	118,418	136,982	94,210	144,326	45,268	270,274	139,738	151,199	98,416	146,919	50,257	272,158	138,874	192,657	110,309	159,735	52,467
25	93,184	89,555	128,203	111,243	226,148	209,653	159,025	98,718	135,624	102,449	223,464	262,254	219,911	121,910	185,889	138,712	267,426	254,639
26	7,899	8,607	13,407	10,985	33,583	40,897	13,366	11,787	18,030	17,981	45,068	92,482	9,543	10,616	27,718	27,624	62,724	118,985
27	41,258	52,050	86,740	98,848	231,582	484,555	77,541	77,212	128,182	128,890	284,933	456,756	100,190	100,316	234,781	211,079	487,937	656,713
28	4,641	5,823	11,259	14,666	52,170	155,286	10,953	14,147	32,039	30,876	79,829	146,379	8,274	9,034	34,655	30,102	72,676	122,458
29	43,643	35,549	57,140	58,361	141,457	455,364	56,055	40,197	64,725	62,649	160,805	543,096	58,082	41,318	79,076	72,430	193,303	498,021
30	12,356	7,881	11,664	11,131	24,484	134,419	14,756	10,614	14,663	14,598	33,080	168,252	10,004	6,286	9,943	7,339	16,446	28,722
31	1,503	1,350	2,705	2,685	5,426	24,383	1,580	1,139	2,305	1,869	2,473	8,688	1,709	1,294	2,641	1,239	2,709	5,802
32	26,059	22,918	36,874	38,876	102,706	273,739	34,270	24,569	42,350	41,767	116,679	341,521	41,506	29,699	59,917	58,804	168,186	440,665
33	2,319	2,100	3,415	3,137	6,224	2,818	3,619	2,612	3,588	3,383	6,646	3,150	2,833	2,476	3,775	3,115	3,692	2,255
34	178	125	366	338	18,139	18,139	394	287	713	368	1,399	21,485	729	528	1,671	1,092	1,700	20,576
35	1,248	1,175	2,116	2,194	2,194	1,866	1,436	976	1,106	664	528	0	1,301	1,035	1,129	841	571	0
36	22,984	19,385	27,769	23,320	52,570	61,630	32,491	21,264	29,582	25,898	60,276	69,562	30,806	19,718	37,030	31,074	67,450	73,411
37	137,766	77,151	85,878	68,067	107,609	48,060	185,976	94,182	102,818	70,861	119,679	41,948	108,795	40,302	54,032	31,433	40,172	20,029
38	1,728,319	1,182,811	1,507,482	1,187,382	2,328,532	2,619,599	2,152,641	1,281,802	1,595,297	1,251,812	2,400,347	2,614,300	2,070,119	1,193,136	2,005,870	1,443,668	2,717,288	2,357,938

Table A.12. JAPAN, Gross output (billion yen), by size category

ISIC code	JAPAN, 1967						JAPAN, 1975						JAPAN, 1990						
	Gross output (billion Yen)						Gross output (billion Yen)						Gross output (billion Yen)						
	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	
1	311.2																		
2	313	424	353	503	614	388	1,178	1,235	1,878	2,226	4,774	1,128	1,701	2,044	4,817	4,679	9,349	1,682	
3	314	33	85	142	88	377	76	148	247	275	1,267	698	306	246	667	1,198	3,752	617	
4	321	297	299	479	401	882	930	727	1,070	877	1,895	958	1,273	912	1,603	1,235	2,590	570	
5	322	93	97	133	109	20	412	365	456	383	504	61	908	712	1,207	856	1,005	39	
6	323	35	27	27	16	4	136	86	61	29	37	4	250	153	196	88	94	1	
7	324	9	10	14	7	6	31	33	43	34	43	26	74	81	146	103	130	16	
8	331	258	316	411	195	66	728	833	910	419	589	138	1,111	968	1,209	560	885	49	
9	332	136	92	114	84	20	464	285	397	304	438	87	941	531	842	646	1,174	200	
10	341	59	81	172	182	474	236	305	579	590	1,185	1,315	410	490	1,356	1,422	2,834	2,362	
11	342	98	113	172	127	330	502	432	583	444	1,004	1,196	1,389	1,115	1,971	1,517	3,492	3,412	
12	351	11	26	94	114	938	27	64	290	672	1,802	3,382	1,389	232	899	1,350	3,824	5,547	
13	352	22	35	88	114	457	77	127	318	388	1,659	1,631	168	240	933	1,302	5,128	3,732	
14	3522	4	8	25	37	172	13	23	79	115	666	747	26	39	251	523	2,576	1,739	
15	353	0	0	5	29	0	0	1	10	32	1,755	4,647	2	2	19	62	4,182	3,100	
16	354	6	11	29	20	628	69	67	96	43	522	330	238	143	130	51	354	35	
17	355	18	26	44	34	107	89	112	130	96	279	720	219	204	403	288	969	1,609	
18	356	9	9	8	4	3	29	22	17	11	7	0	863	983	2,003	1,828	3,938	976	
19	361	18	15	18	22	40	69	46	61	57	121	142	184	124	260	241	470	357	
20	362	7	8	19	21	56	20	20	55	47	183	373	51	60	155	180	656	1,028	
21	369	58	101	248	159	368	285	588	948	498	988	301	705	1,333	2,299	935	1,659	158	
22	371	28	80	230	244	714	130	253	681	623	1,996	7,624	457	810	2,025	1,660	4,176	9,186	
23	372	37	48	117	110	397	118	120	306	297	1,013	2,055	224	249	848	830	2,666	3,036	
24	381	223	271	386	297	575	1,084	948	1,277	936	1,681	657	2,969	2,445	4,059	2,694	4,976	1,975	
25	382	141	197	590	340	685	638	646	1,038	888	2,383	3,779	2,520	2,138	3,875	3,345	8,630	11,229	
26	3825	13	20	37	34	132	55	70	118	155	430	1,341	72	96	333	440	1,977	8,387	
27	383	60	97	192	226	687	285	358	688	799	2,342	5,636	882	997	2,743	3,097	11,519	27,071	
28	3832	6	10	24	36	190	34	52	137	172	706	2,262	60	68	326	396	1,749	6,535	
29	384	54	67	141	169	525	280	235	510	593	2,015	11,032	506	575	1,580	1,870	6,394	35,466	
30	3841	15	15	29	29	94	146	65	116	144	494	2,500	100	94	216	231	568	1,042	
31	3842	2	2	5	6	14	5	6	15	13	23	116	15	17	42	19	68	214	
32	3843	31	41	89	117	386	106	139	335	389	1,409	8,145	347	407	1,202	1,504	5,592	33,319	
33	3844	4	6	11	11	26	14	19	33	39	72	48	23	33	76	63	124	181	
34	3845	0	0	1	1	1	1	1	3	3	10	222	6	6	22	25	27	710	
35	3849	2	3	7	6	5	8	6	8	6	7	0	15	17	23	29	14	0	
36	385	31	36	59	52	135	111	110	167	152	449	741	264	226	505	453	1,524	2,212	
37	39	165	166	238	208	436	727	669	903	716	1,466	579	890	553	930	723	1,592	634	
38	3	2,344	2,688	4,706	4,019	10,457	8,788	8,905	13,836	12,585	32,826	50,580	19,776	18,661	38,017	33,745	91,937	124,957	

Table A.13. JAPAN, Value added (billion yen), by size category

ISIC Code	JAPAN, 1967						JAPAN, 1975						JAPAN, 1990					
	Value added (billion Yen)						Value added (billion Yen)						Value added (billion Yen)					
	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1 311.2	143	108	143	154	435	123	451	426	558	584	1,366	401	735	723	1,614	1,580	3,556	859
2 313	19	54	88	55	248	260	41	88	146	162	789	453	132	121	348	697	2,479	445
3 314													0	0	3	8	1,472	204
4 321	151	118	160	129	274	256	460	311	391	315	672	309	691	416	707	512	1,082	180
5 322	46	42	46	36	44	8	208	169	185	166	217	16	494	363	613	433	465	23
6 323	12	10	8	5	4	1	48	27	20	10	17	1	99	59	76	37	30	0
7 324	4	4	5	3	6	3	12	13	14	13	18	10	37	35	51	37	57	6
8 331	98	101	125	58	67	20	280	278	272	120	174	38	494	382	437	184	340	19
9 332	63	39	46	31	53	7	223	130	161	121	176	30	504	257	365	270	471	119
10 341	28	33	57	56	152	168	113	125	210	202	403	434	212	219	540	552	1,071	957
11 342	60	67	94	68	170	248	301	245	317	234	547	691	850	643	1,061	789	1,818	1,796
12 351	4	10	34	42	227	453	9	24	87	172	583	1,113	93	104	343	461	1,756	2,788
13 352	10	15	36	48	224	585	32	51	127	161	880	958	70	106	439	662	3,111	2,484
14 3522	2	5	13	19	107	170	7	12	40	57	409	498	13	22	154	359	1,825	1,251
15 353	0	0	1	1	112	0	0	0	2	4	224	701	2	1	4	14	1,277	899
16 354	2	4	10	6	7	243	19	24	24	13	49	51	80	56	51	16	57	22
17 355	8	11	18	13	50	134	43	50	52	40	135	323	114	99	187	128	462	836
18 356	4	3	2	1	1	0	12	9	7	4	2	0	462	452	837	731	1,573	407
19 361	10	8	9	12	23	31	41	26	31	31	76	89	120	75	148	132	279	160
20 362	4	4	10	10	31	105	11	10	27	24	102	232	29	30	77	82	402	631
21 369	31	46	97	73	191	60	146	258	411	255	477	111	347	600	1,092	481	932	79
22 371	12	31	69	69	202	801	51	88	167	166	503	1,910	178	279	581	447	1,398	4,258
23 372	11	15	26	21	89	238	46	43	74	61	237	513	106	100	267	239	850	848
24 381	119	128	163	121	223	77	589	464	563	390	741	273	1,662	1,214	1,854	1,132	2,072	932
25 382	86	106	410	151	187	317	389	353	516	430	1,089	1,639	1,580	1,162	1,880	1,483	3,478	4,403
26 3825	7	10	15	12	57	67	30	35	52	62	163	668	46	55	159	167	594	3,137
27 383	32	48	81	85	259	949	154	176	292	319	937	2,499	504	526	1,259	1,232	4,334	10,915
28 3832	3	5	10	12	61	366	19	26	59	62	248	926	36	38	149	153	616	2,390
29 384	32	35	61	64	174	1,125	199	120	217	230	713	3,263	309	296	662	654	2,063	9,942
30 3841	8	8	13	12	32	228	120	36	58	58	176	735	53	46	88	69	213	320
31 3842	1	1	3	3	6	28	4	3	8	7	9	43	10	10	24	10	25	75
32 3843	20	22	38	43	124	835	64	69	133	146	493	2,374	219	211	495	528	1,755	9,210
33 3844	2	2	4	3	9	5	7	8	13	15	26	24	14	16	30	22	51	92
34 3845	0	0	0	0	1	26	1	1	2	2	6	87	5	4	14	16	15	244
35 3849	1	1	3	3	2	3	4	3	4	2	3	0	8	9	11	10	5	0
36 385	18	19	28	24	61	97	64	59	82	75	223	344	161	127	255	210	632	822
37 39	76	71	91	80	158	78	350	287	357	287	584	237	472	268	401	339	595	309
38 3	1,091	1,139	1,933	1,431	3,729	6,452	4,324	3,890	5,361	4,651	12,096	17,308	10,582	8,768	16,312	13,707	38,704	48,480

Table A.14. UNITED KINGDOM, Number of enterprises, by size category

ISIC Code	UNITED KINGDOM, 1968						UNITED KINGDOM, 1977						UNITED KINGDOM, 1990					
	Number of Enterprises						Number of Enterprises						Number of Enterprises					
	1-24	25-49	50-99	100-499	500+		1-10	11-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	2,603	588	664	1,095	320		2836	1072	901	522	710	245	988	5,579	874	466	621	200
2	559	206	119	192	64		254	80	119	88	117	60	194	78	55	46	101	37
3	14	5	4	10	19		5	3	7	1	6	12	0	16	2	1	3	6
4	2,584	816	1,035	1,675	202		2140	810	807	570	913	170	2,923	468	557	318	414	60
5	3,744	944	973	966	66		3888	1306	1264	552	569	90	7,277	982	929	348	330	69
6	1,057	164	153	110	0		977	281	226	113	82	3	856	123	123	50	32	1
7	297	110	158	268	30		226	77	75	64	142	28	433	78	91	51	80	13
8	3,806	468	360	222	12		4499	975	684	284	198	18	5,508	639	550	185	145	8
9	2,947	428	406	322	24		3475	798	665	278	265	29	5,999	642	669	249	220	19
10	638	182	264	452	121		626	248	404	254	399	76	1,823	301	447	259	321	41
11	6,766	786	538	555	93		7668	1559	1239	456	461	94	14,488	1,737	1,569	464	421	83
12	727	144	158	269	109		1083	315	274	148	240	107	1,074	239	240	153	186	56
13	965	141	164	288	108		466	132	107	105	146	85	770	128	133	87	178	76
14	176	25	35	66	35		139	36	29	25	47	33	183	26	31	29	55	38
15	1	1	2	15	7		13	5	3	4	11	8	0	11	2	2	6	4
16	112	21	28	61	8		76	29	24	18	30	9	0	59	14	10	26	5
17	229	55	67	142	56		284	102	75	64	109	47	222	87	106	76	91	23
18	1,335	212	190	266	15		1421	414	455	267	246	34	2,555	578	684	361	382	36
19	205	19	33	124	31		333	48	44	21	66	28	634	78	90	51	60	26
20	419	42	51	73	44		420	100	70	27	60	28	484	105	98	39	45	19
21	2,837	519	363	335	31		2045	347	408	199	251	37	1,582	284	262	184	205	39
22	876	193	248	427	166		758	248	378	222	304	96	211	74	110	91	123	30
23	621	128	133	186	66		509	194	179	105	148	51	377	104	113	62	71	19
24	8,074	1,056	1,000	1,026	208		8118	2342	2116	946	759	167	9,315	1,790	1,934	750	589	68
25	8,695	1,171	1,226	1,444	427		8518	2670	2352	1062	1199	348	17,540	2,588	2,682	950	883	165
26	71	17	13	36	30		116	49	28	16	28	20	863	110	90	51	60	16
27	2,134	335	394	681	401		2665	755	577	317	494	267	6,886	864	942	503	634	200
28	612	78	119	228	121		833	231	162	96	155	83	1,983	304	366	178	287	63
29	2,088	366	399	623	384		2253	599	550	309	398	221	2,540	450	469	296	360	139
30	868	105	121	132	73		965	197	150	90	95	52	1,083	125	98	50	34	13
31	39	11	7	26	21		33	9	9	8	11	5	67	6	7	4	10	6
32	1,013	218	226	350	198		1077	331	324	167	220	112	1,061	237	286	187	223	73
33	54	6	10	20	6		55	17	17	10	3	11	65	25	12	3	6	2
34	113	26	35	95	86		123	45	50	34	69	41	215	51	61	48	77	44
35	0	0	0	0	0		0	0	0	0	0	0	49	6	5	4	10	1
36	1,530	190	202	270	79		1645	336	328	174	213	60	1,546	327	327	170	161	24
37	1,439	138	158	187	30		1338	303	294	154	153	24	7,789	463	427	148	105	13
38	57372	9445	9503	12319	3151		58655	16197	14653	7340	8717	2462	94,877	18,982	14,589	6,421	6,853	1,495

Table A.15. UNITED KINGDOM, Number of employees, by size category

ISIC Code	UNITED KINGDOM, 1968					UNITED KINGDOM, 1977					UNITED KINGDOM, 1990						
	1-24	25-49	50-99	100-499	500+	1-10	11-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	26,137	19,861	42,906	226,455	300,502	15088	15241	28099	36567	158734	352183	16,300	20,290	28,217	32,693	136,600	274,200
2	6,897	7,603	8,698	45,543	67,286	1388	1217	3700	6272	26980	79101	600	600	1,940	3,260	23,200	40,000
3	185	202	227	2,307	37,850	24	42	201	61	1186	36216	0	10	43	47	400	12,500
4	29,571	29,636	70,925	342,189	170,829	10904	11528	25599	40747	187653	203288	8,900	6,700	18,000	23,000	87,200	51,900
5	39,503	32,186	61,290	167,894	48,961	19885	18729	37942	37784	119167	87423	22,400	14,100	29,400	24,200	68,400	75,900
6	10,288	5,967	10,454	20,656	0	4700	4000	6800	7900	15200	2000	2,300	1,700	4,000	3,400	6,130	670
7	3,452	3,915	11,262	52,132	24,552	1115	1071	2358	4816	31433	34277	1,300	1,100	3,100	3,500	16,700	19,900
8	32,433	17,049	25,092	41,170	8,067	19339	13847	20894	19832	37206	12013	14,200	9,300	17,100	12,800	26,200	7,800
9	25,017	14,343	24,908	55,807	13,789	15461	11353	20206	19768	49294	24887	15,000	9,200	20,800	17,700	42,600	14,300
10	7,344	6,504	18,665	96,699	106,324	3356	3597	12934	18078	90154	84838	5,500	4,400	14,300	18,600	69,500	37,500
11	55,845	27,969	38,664	116,362	111,911	31944	22203	36666	31522	97546	113562	38,600	25,000	48,200	32,300	88,900	79,300
12	6,996	4,969	10,661	59,599	149,245	5115	4493	8596	10285	56767	192093	3,200	3,500	7,800	10,700	41,700	78,400
13	8,524	4,926	10,673	61,872	130,483	2143	1907	3308	7527	31294	120641	2,500	1,800	4,600	6,200	40,500	99,200
14	1,572	841	2,229	14,638	36,657	596	523	988	1809	10741	50910	600	400	1,100	2,000	12,400	59,200
15	13	40	161	3,861	13,074	71	77	100	286	3132	13474	0	74	50	143	1,384	6,948
16	1,072	650	1,770	14,833	6,016	329	423	700	1314	7568	6826	0	250	232	436	2,638	2,143
17	2,279	1,819	4,202	30,994	84,485	1371	1448	2416	4567	25985	80642	800	1,200	3,500	5,500	19,600	33,700
18	12,421	7,171	11,933	54,340	12,376	6735	5901	13897	18723	52456	27021	7,900	8,400	21,800	25,500	80,800	25,600
19	1,423	628	2,175	28,386	22,955	1235	658	1363	1548	15622	40619	1,700	1,200	3,000	3,400	12,800	30,600
20	3,681	1,331	3,122	14,853	49,657	1908	1399	2022	1892	12350	44168	1,100	1,500	3,000	2,700	9,500	24,200
21	24,228	18,787	24,773	66,973	30,768	9057	5043	12715	14260	50428	44513	4,900	4,100	8,300	13,000	40,600	44,000
22	9,162	6,555	15,911	88,152	294,761	3714	3539	12095	15721	67244	252723	800	1,000	3,600	6,400	26,300	55,400
23	6,350	4,278	8,632	37,641	74,623	2586	2861	5505	7479	33156	58877	1,400	1,500	3,700	4,500	16,900	15,600
24	71,922	35,295	64,442	192,367	171,949	38200	33400	65300	65200	154400	165900	28,600	26,100	60,300	52,100	114,700	56,500
25	83,135	40,597	79,913	294,011	475,277	41229	38274	72021	73453	251683	462827	50,300	37,900	85,500	65,900	183,800	165,200
26	737	880	863	7,592	39,748	556	689	986	1180	7362	35149	2,400	1,600	2,900	3,500	16,900	28,100
27	18,608	11,134	25,480	140,230	539,220	12495	10831	17320	22227	115963	497499	18,700	12,400	30,500	35,300	143,700	269,700
28	5,259	2,595	7,550	47,987	174,752	3841	3314	4724	6878	38974	168428	5,300	4,300	11,900	12,600	65,300	100,400
29	18,118	11,291	24,054	119,173	776,532	10753	8480	17003	21808	85266	773730	6,700	6,400	15,300	21,200	82,707	400,893
30	7,417	3,583	7,930	25,398	142,939	4400	2800	4600	6200	19100	136000	2,500	1,800	3,200	3,600	7,521	45,679
31	360	431	459	5,735	42,676	155	128	246	614	2719	38097	200	100	200	300	2,817	15,883
32	8,591	6,197	12,685	63,082	366,471	5435	4646	10058	11765	47561	414497	3,100	3,400	9,200	13,300	50,900	187,800
33	3844	448	171	3,619	13,588	240	238	532	733	845	10328	200	300	400	200	1,500	1,500
34	3845	1,302	909	2,288	210,857	523	668	1567	2496	15042	174808	600	700	2,100	3,500	17,900	149,300
35	3849	0	0	0	0	0	0	0	0	0	0	100	100	200	300	2,069	731
36	12,796	6,649	13,560	54,420	83,714	7100	4800	10400	11900	45200	76900	4,400	4,800	10,500	11,900	32,500	21,400
37	12,636	4,957	10,580	35,202	25,736	6090	4265	8984	10651	30245	28115	20,000	6,700	13,700	10,400	21,600	12,700
38	530,774	327,192	625,997	2,471,714	3,870,691	273,891	231,316	450,130	513,368	1,860,674	3,951,505	280,500	212,824	463,383	450,280	1,454,459	1,984,254

Table A.16. UNITED KINGDOM, Gross output (million pounds), by size category

ISIC Code	UNITED KINGDOM, 1968					UNITED KINGDOM, 1977					UNITED KINGDOM, 1990					
	Gross output (million UK pounds)					Gross output (million UK pounds)					Gross output (million UK pounds)					
	1-24	25-49	50-99	100-499	500+	1-10	11-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499
1	259	209	458	1,744	1,690	526	525	983	1,277	5,011	1,263	1,579	2,124	2,438	11,651	21,444
2	66	70	79	580	939	43	44	115	204	1,249	82	82	267	414	4,051	6,163
3	6	4	5	67	1,391	1	2	9	3	141	0	3	12	13	111	6,899
4	111	122	275	1,258	653	134	141	312	502	2,369	339	255	685	876	3,729	1,764
5	322	93	75	383	108	141	132	268	261	846	556	349	723	591	1,934	2,042
6	323	39	30	88	0	68	57	98	113	237	107	79	186	158	322	43
7	324	9	10	136	71	11	10	22	46	282	38	32	91	103	506	638
8	331	118	80	206	37	321	231	356	341	701	738	481	900	683	2,045	300
9	332	84	48	213	57	178	131	233	227	601	651	399	903	768	1,684	744
10	341	31	22	450	560	65	60	186	244	1,693	343	264	799	986	4,968	3,082
11	342	163	89	391	485	372	259	429	370	1,220	1,861	1,205	2,324	1,557	4,822	6,093
12	351	65	50	593	1,385	188	167	317	393	2,495	344	389	855	1,177	11,501	11,501
13	352	56	31	364	785	35	30	47	152	669	170	92	268	352	3,035	10,233
14	3522	10	6	90	232	12	11	20	37	247	30	20	55	100	859	5,771
15	353	1	2	206	675	32	35	45	130	2,201	0	179	121	345	5,481	12,101
16	354	13	5	19	74	12	20	42	45	100	0	32	43	46	245	423
17	355	10	7	110	378	20	21	36	67	349	37	55	162	254	841	1,889
18	356	44	26	197	45	91	80	189	254	744	405	432	1,123	1,320	4,907	1,660
19	361	3	1	48	48	11	6	12	13	112	51	36	91	103	457	969
20	362	13	5	47	176	21	15	22	20	146	42	58	116	104	473	1,259
21	369	156	78	321	127	174	99	238	265	1,008	379	324	672	966	3,376	3,156
22	371	37	24	424	1,695	58	59	202	269	1,198	39	53	225	441	2,362	6,256
23	372	64	38	421	691	63	65	137	178	911	143	153	378	459	2,492	1,685
24	381	330	111	738	665	444	388	759	758	2,052	1,155	1,054	2,435	2,104	5,409	3,207
25	382	295	137	1,162	2,013	508	472	887	905	3,664	2,317	1,746	3,939	3,036	10,369	11,889
26	3825	3	3	35	182	9	10	16	21	146	175	117	211	255	1,397	6,155
27	383	62	35	463	2,011	153	132	211	270	1,447	825	547	1,345	1,557	7,125	15,546
28	3832	17	7	149	551	49	38	53	84	457	231	187	518	549	3,238	5,408
29	384	73	38	414	3,556	133	106	225	286	1,154	294	280	677	945	4,258	32,759
30	3841	21	14	72	387	51	32	53	71	210	103	74	131	148	357	1,654
31	3842	1	1	17	101	2	2	4	9	26	12	6	12	19	162	657
32	3843	45	20	253	2,214	72	62	146	172	745	146	161	435	628	2,787	19,502
33	3844	1	1	3	10	3	3	6	9	8	6	9	12	6	85	85
34	3845	5	2	7	61	5	7	16	25	164	23	27	82	136	801	10,832
35	3849	0	0	0	0	0	0	0	0	0	3	3	6	8	66	28
36	385	37	20	41	165	74	50	109	125	501	175	191	418	474	1,455	1,134
37	39	36	14	30	101	66	44	93	99	344	780	261	534	406	966	559
38	3	2,278	1,385	2,678	11,525	20,831	3,952	3,391	6,596	7,839	13,309	10,726	22,629	22,932	96,705	171,592

Table A.17. UNITED KINGDOM, Gross value added (million pounds), by size category

ISIC Code	UNITED KINGDOM, 1968						UNITED KINGDOM, 1977						UNITED KINGDOM, 1990					
	Value added (million UK pounds)						Value added (million UK pounds)						Value added (million UK pounds)					
	1-24	25-49	50-99	100-499	500+		1-10	11-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	59	39	90	428	589	108	108	197	253	1,121	2,694	348	437	577	659	3,450	8,619	
2	19	23	24	145	268	13	13	35	61	372	1,094	30	29	95	142	1,244	2,189	
3	1	1	1	8	149	0	0	2	1	28	475	0	0	2	2	12	1,315	
4	42	41	98	478	275	49	52	115	185	905	996	155	117	314	401	1,629	848	
5	32	32	63	170	52	66	62	125	123	392	276	282	177	367	300	939	1,031	
6	15	9	16	32	0	21	18	31	36	79	12	37	28	65	55	104	9	
7	324	4	5	14	67	5	4	10	20	132	175	19	16	46	52	256	318	
8	331	50	29	43	75	117	84	129	123	261	85	294	192	354	265	634	150	
9	332	43	24	41	103	84	62	109	106	288	163	308	189	427	363	934	328	
10	341	13	9	28	179	21	21	79	113	655	666	111	95	343	478	2,025	1,447	
11	342	95	53	74	239	211	147	244	210	688	1,040	1,103	714	1,377	923	3,052	3,831	
12	351	25	16	34	214	59	52	101	126	790	2,372	127	140	311	427	2,320	4,114	
13	352	26	13	27	165	17	15	24	61	353	1,463	74	47	127	170	1,448	5,922	
14	3522	6	3	6	47	6	5	10	18	140	698	17	11	31	56	446	3,912	
15	353	0	0	1	32	3	3	4	12	272	630	0	17	11	33	656	1,760	
16	354	4	2	7	43	3	5	9	14	72	115	0	13	13	21	155	137	
17	355	5	3	9	57	9	10	16	31	169	589	19	28	82	129	432	998	
18	356	22	12	20	99	41	36	85	115	339	189	189	201	522	611	2,298	799	
19	361	2	1	3	31	6	3	7	8	76	201	30	21	53	60	257	622	
20	362	7	2	5	25	11	8	11	10	77	388	22	30	60	54	283	720	
21	369	56	36	50	158	79	45	109	121	476	470	198	170	351	506	1,691	1,921	
22	371	16	11	27	152	23	22	77	101	439	1,387	17	22	81	147	767	2,221	
23	372	14	9	16	80	18	20	39	52	242	479	36	38	95	115	513	457	
24	381	123	59	106	330	216	189	370	369	910	1,081	588	537	1,241	1,072	2,618	1,590	
25	382	160	73	147	585	261	243	456	465	1,762	3,571	1,191	897	2,024	1,560	5,080	5,253	
26	3825	2	2	2	16	4	5	8	10	66	283	82	55	99	120	522	2,314	
27	383	34	18	41	228	75	65	103	132	701	2,978	411	273	671	776	3,397	6,997	
28	3832	9	4	11	79	25	19	27	43	224	949	123	99	275	291	1,629	2,683	
29	384	32	18	40	203	60	47	97	125	527	4,868	141	132	316	440	1,876	13,313	
30	3841	11	6	13	41	25	16	26	35	113	658	56	41	72	81	155	985	
31	3842	1	1	1	8	1	1	1	4	13	169	5	3	5	8	58	286	
32	3843	18	10	21	112	29	25	56	66	298	2,961	60	66	178	258	1,102	6,311	
33	3844	1	0	1	5	1	1	3	4	4	48	3	5	6	3	39	39	
34	3845	3	2	4	37	3	4	10	16	99	1,032	15	17	52	87	492	5,678	
35	3849	0	0	0	0	0	0	0	0	0	0	1	1	2	3	31	15	
36	385	21	10	24	95	42	28	61	70	274	459	95	104	226	257	824	541	
37	39	18	7	15	52	32	22	46	51	180	167	383	128	263	199	474	280	
38	3	949	557	1,065	4,487	8,231	1,655	1,390	2,700	3,104	12,645	6,289	4,847	10,513	10,337	39,889	70,045	

Table A.18. UNITED STATES, Number of establishments, by size category

ISIC Code	UNITED STATES, 1967						UNITED STATES, 1977						UNITED STATES, 1987					
	Number of Establishments						Number of Establishments						Number of Establishments					
	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	17,549	3,840	4,958	2,780	3,282	350	11,152	3,048	3,628	2,359	2,980	385	6,964	2,854	3,337	2,048	2,718	452
2	1,455	777	1,191	480	418	55	1,023	391	792	458	391	49	762	315	394	289	410	40
3	104	30	48	33	81	33	91	14	22	16	68	17	43	11	16	17	38	12
4	1,785	842	1,385	960	1,676	432	2,192	879	1,278	830	1,605	418	1,830	822	1,093	743	1,283	294
5	10,016	3,672	6,022	3,335	3,089	259	10,912	3,660	5,405	3,010	3,269	249	10,121	3,527	4,365	2,390	2,551	214
6	952	327	412	254	257	20	1,023	264	331	240	198	18	791	257	265	145	123	7
7	331	108	193	175	584	71	233	68	125	128	404	43	172	63	86	75	196	18
8	27,445	3,547	3,285	1,426	1,032	60	26,029	4,217	3,695	1,786	1,502	73	21,264	5,353	4,160	1,702	1,455	53
9	4,795	1,150	1,424	700	679	87	4,795	1,275	1,406	745	723	115	5,351	1,582	1,642	811	793	110
10	1,391	686	1,223	908	1,466	216	1,726	819	1,313	963	1,500	224	1,260	888	1,433	1,018	1,484	209
11	24,934	5,020	4,473	1,777	1,526	259	34,463	6,159	5,122	2,114	1,633	276	40,005	9,170	7,090	2,896	2,305	325
12	1,524	636	759	438	529	195	1,600	532	708	417	545	261	1,459	628	756	418	532	159
13	4,203	1,088	1,182	556	567	122	4,224	1,212	1,318	644	615	97	3,614	1,443	1,513	696	690	131
14	525	113	129	90	94	50	609	152	168	94	151	69	477	219	255	135	200	70
15	117	33	53	45	133	56	45	24	62	36	122	58	68	20	53	27	94	47
16	785	241	222	122	71	2	1,087	276	286	113	91	5	1,117	276	303	140	87	1
17	448	163	265	193	267	124	605	217	274	204	317	114	834	428	525	313	380	85
18	2,052	671	1,031	600	584	58	4,401	1,426	1,983	1,279	1,048	75	4,054	1,971	2,729	1,688	1,491	91
19	334	54	82	47	83	19	605	88	81	55	86	19	648	112	100	57	82	14
20	605	129	155	82	185	100	892	173	189	104	199	114	1,078	277	251	136	212	82
21	7,013	2,534	2,422	928	758	50	7,995	2,790	2,592	944	775	43	6,068	2,874	2,615	937	615	33
22	350	179	429	381	686	274	630	277	452	383	698	241	561	300	498	334	528	137
23	1,530	696	943	513	663	193	1,776	711	895	518	648	146	1,371	742	924	500	662	104
24	12,695	4,596	5,631	2,645	2,621	403	15,600	5,754	6,621	3,090	3,094	382	15,447	7,175	7,721	3,502	2,971	247
25	21,052	6,070	5,491	2,214	2,158	730	27,711	7,539	6,359	2,524	2,487	575	28,026	9,339	7,428	2,822	2,450	446
26	204	71	94	49	100	76	561	141	134	131	216	233	842	271	312	209	272	146
27	3,985	1,149	1,791	1,180	1,817	784	6,830	1,805	2,087	1,381	2,145	725	6,162	2,216	2,799	1,681	2,459	605
28	762	196	332	202	336	235	1,816	408	475	300	462	215	898	304	441	237	362	118
29	3,301	828	1,114	777	975	488	5,336	1,178	1,265	818	1,045	468	4,638	1,579	1,623	895	1,222	451
30	1,242	229	230	119	137	54	1,726	333	313	162	209	52	1,660	386	307	180	187	46
31	24	14	15	18	24	28	64	19	29	23	40	26	54	27	37	24	22	10
32	1,418	390	564	420	499	240	2,543	578	651	458	603	262	1,848	781	816	468	706	246
33	50	8	8	5	13	7	245	42	33	11	11	8	147	43	32	14	8	2
34	319	122	225	170	278	159	502	142	179	135	165	117	567	243	320	172	277	143
35	248	65	72	45	24	0	256	64	60	29	17	3	362	99	111	37	22	4
36	2,244	595	639	353	473	149	3,949	992	1,070	560	699	211	4,670	1,521	1,676	876	1,106	344
37	8,281	1,946	2,025	972	751	97	11,141	2,323	2,026	859	808	102	10,369	2,534	2,087	876	2,098	66
38	156,863	41,678	48,942	24,923	27,511	5,762	188,627	48,252	51,519	26,709	29,911	5,736	179,585	58,546	57,793	28,241	29,858	4,922

Table A.19. UNITED STATES, Number of employees, by size category

ISIC Code	UNITED STATES, 1967					UNITED STATES, 1977					UNITED STATES, 1987							
	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	103.8	53.5	156.0	195.8	653.4	330.9	32.9	41.9	117.3	165.3	626.1	341.2	25.1	39.4	106.9	145.0	570.7	401.4
2	4.7	11.2	37.4	32.9	79.9	54.8	3.4	5.6	25.7	31.9	81.7	47.0	2.6	4.5	12.5	20.5	85.9	34.4
3	0.3	0.4	1.6	2.3	19.0	51.6	0.2	0.2	0.8	1.1	15.7	42.6	0.2	0.2	0.6	1.2	8.8	33.9
4	6.3	12.0	45.4	68.7	382.8	413.5	7.0	12.2	41.2	59.5	365.8	390.2	6.7	11.5	35.1	52.3	296.3	270.0
5	33.1	51.8	194.3	230.4	626.8	220.6	33.6	51.4	173.6	210.6	663.9	201.3	35.6	48.9	137.6	168.2	522.5	167.9
6	3.1	4.5	13.0	17.7	48.6	17.2	3.1	3.8	10.4	17.0	40.5	13.9	2.6	3.4	8.3	13.2	20.2	4.9
7	1.0	1.7	6.3	13.0	152.7	50.2	0.7	0.9	4.1	8.9	109.0	30.2	0.7	1.0	2.8	5.5	52.7	13.6
8	66.0	48.5	101.8	98.1	191.3	48.3	60.4	57.4	114.2	127.2	275.8	57.4	71.8	72.6	127.1	118.8	266.1	42.0
9	14.7	16.2	44.2	49.1	142.2	77.9	14.4	17.6	44.4	53.0	149.0	95.2	18.6	21.8	51.6	55.8	160.3	89.0
10	34.1	4.7	9.9	39.5	302.2	217.6	6.4	11.4	42.9	69.1	285.4	213.9	5.1	12.7	46.7	73.6	279.9	193.1
11	34.2	69.7	136.9	121.4	307.5	326.8	87.0	84.0	156.0	145.0	317.6	302.6	138.3	124.2	218.3	200.5	442.7	370.1
12	35.1	5.1	8.7	24.1	114.5	283.7	5.4	7.1	22.2	29.3	118.9	337.8	5.8	8.2	23.9	29.3	111.9	203.0
13	35.2	12.8	15.3	37.1	119.1	152.2	12.9	16.9	41.1	44.7	127.7	122.1	46.8	11.9	23.7	48.0	141.1	160.5
14	35.22	1.4	1.6	4.1	6.2	1.4	1.9	2.1	5.3	6.7	35.0	105.5	1.8	3.0	7.8	9.4	45.0	104.7
15	35.3	0.4	0.5	1.7	3.1	31.7	0.1	0.3	2.0	2.4	29.6	68.0	0.3	0.3	1.6	2.0	24.1	46.5
16	35.4	3.2	3.4	6.8	12.1	1.4	4.1	3.7	8.8	8.3	16.2	3.4	4.9	3.7	9.4	9.6	13.1	0.6
17	35.5	1.5	2.3	8.8	61.8	177.0	2.0	3.1	8.9	14.7	71.9	167.0	3.5	5.4	16.9	22.2	85.6	99.1
18	35.6	6.5	9.6	32.9	42.3	112.5	14.3	19.8	62.8	90.2	201.3	65.3	15.3	27.9	86.7	118.3	281.9	68.8
19	36.1	0.8	0.6	2.9	3.1	18.6	1.0	1.2	2.5	3.8	18.5	16.2	1.6	1.6	3.1	3.9	17.1	10.7
20	36.2	1.7	1.8	5.0	46.8	101.2	2.4	2.4	5.9	7.2	49.4	107.7	3.4	3.7	8.1	9.3	54.3	64.4
21	36.9	23.3	35.5	73.3	139.3	48.4	27.0	38.7	79.0	65.0	143.6	42.2	25.0	39.4	79.4	64.2	107.7	26.8
22	37.1	1.0	2.5	14.5	26.9	649.7	2.1	3.7	14.9	27.7	154.7	548.6	2.0	4.0	16.1	23.7	110.2	226.3
23	37.2	5.6	9.9	29.6	36.2	142.6	6.2	9.9	42.3	36.3	136.3	144.6	5.9	10.5	29.2	35.3	137.9	99.9
24	38.1	41.1	64.5	176.2	184.0	532.5	51.3	80.0	207.9	213.3	623.1	398.4	62.6	99.1	239.9	242.6	582.4	257.6
25	38.2	63.8	84.2	167.8	153.7	462.9	85.6	103.3	195.0	174.2	525.2	912.0	104.9	127.5	225.7	195.0	495.1	638.8
26	38.25	0.5	1.0	3.1	23.5	158.7	1.5	1.9	4.6	9.5	49.3	199.5	3.0	3.8	9.9	14.7	56.9	239.6
27	38.3	12.0	16.1	57.6	84.4	407.6	20.6	24.9	67.4	98.2	473.1	1,038.9	22.3	30.7	91.6	118.9	537.6	763.7
28	38.32	2.0	2.8	11.1	14.6	548.1	5.1	5.5	15.2	21.0	99.9	409.7	2.9	4.3	14.1	16.7	76.4	190.4
29	38.4	9.1	11.5	35.3	55.1	206.0	15.0	16.1	40.2	58.0	235.2	1,295.8	15.9	21.5	50.4	62.9	272.4	1,212.8
30	38.41	3.3	3.1	7.3	8.2	28.1	4.5	4.5	9.9	11.1	45.9	144.3	5.1	5.2	9.4	12.6	40.3	104.6
31	38.42	0.0	0.2	0.5	1.5	6.0	0.2	0.3	1.0	1.7	8.3	44.9	0.1	0.4	1.1	1.8	4.4	14.3
32	38.43	3.8	5.5	17.9	30.3	103.9	7.5	7.8	20.4	32.5	139.1	695.3	7.0	10.8	25.6	33.1	157.8	537.2
33	38.44	0.2	0.1	0.3	0.3	3.2	0.7	0.6	1.0	0.8	2.2	10.4	0.6	0.6	0.9	1.0	1.5	2.8
34	38.45	1.0	1.7	7.0	11.9	60.6	1.4	2.0	6.0	9.9	36.6	399.1	1.9	3.2	10.0	12.0	64.2	551.0
35	38.49	0.8	0.9	2.3	2.9	4.2	0.7	0.9	1.9	2.0	3.0	1.9	1.2	1.3	3.4	2.4	4.2	2.9
36	38.5	6.8	8.3	20.1	24.9	104.4	11.6	13.7	33.6	39.6	155.9	304.7	17.0	20.9	52.8	61.2	239.1	591.3
37	39	23.5	26.8	62.8	67.4	152.7	29.3	31.6	62.8	59.9	162.8	94.2	33.5	34.6	64.2	60.9	1,570.6	55.7
38	3	461.4	580.9	1,536.0	1,740.2	5,750.3	541.5	664.7	1,632.4	1,871.1	6,223.0	7,595.8	647.4	804.5	1,801.3	1,973.3	6,109.5	6,380.7

Table A.20. UNITED STATES, Gross output (million US\$), by size category

ISIC Code	UNITED STATES, 1967 Gross output (million US\$)					UNITED STATES, 1977 Gross output (million US\$)					UNITED STATES, 1987 Gross output (million US\$)							
	1-9	10-19	20-49	50-99	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	
	1	4,542	2,426	8,548	11,498	33,838	16,750	3,828	5,410	16,875	25,191	75,804	42,475	4,497	7,796	23,319	36,245	124,786
2	144	302	1,110	1,175	3,499	2,871	355	605	2,850	3,608	8,986	6,925	571	812	2,967	6,839	22,708	13,525
3	18	20	63	66	1,273	3,464	18	13	25	117	2,326	6,551	15	21	77	485	2,142	18,016
4	207	319	989	1,426	8,312	8,563	322	575	1,723	2,496	17,298	18,137	581	988	2,703	4,427	28,274	25,814
5	1,114	1,571	3,491	3,298	8,163	3,690	1,519	1,916	5,725	5,904	17,202	7,980	2,719	3,312	7,939	9,137	27,918	13,218
6	107	93	241	305	867	341	131	165	344	609	1,655	540	206	226	578	1,655	1,546	575
7	26	36	97	190	2,142	724	23	26	110	234	2,889	880	36	48	154	383	2,728	947
8	1,206	866	1,969	2,056	4,052	1,058	3,134	2,526	5,352	7,145	17,438	4,324	5,746	5,704	11,207	12,115	29,960	5,015
9	303	300	785	878	2,430	1,314	527	622	1,597	1,958	5,133	3,133	1,083	1,300	3,396	3,884	11,374	6,109
10	155	282	1,037	1,778	9,661	8,057	389	698	2,622	4,565	22,416	21,396	537	1,311	5,333	10,042	47,280	44,486
11	1,422	1,215	2,368	2,230	6,604	7,899	3,610	2,909	5,924	5,999	14,994	16,279	8,395	7,805	16,262	17,038	43,740	42,957
12	328	436	1,149	1,443	6,553	12,514	641	896	3,097	4,149	20,122	44,840	2,367	2,513	7,986	9,966	44,873	58,825
13	586	754	1,980	2,062	7,056	7,288	1,608	2,109	5,164	5,756	17,564	12,207	13,349	1,405	1,368	10,666	36,982	39,248
14	43	49	165	194	1,194	3,498	133	201	440	574	3,296	9,604	257	500	1,167	1,455	12,136	23,748
15	92	63	174	467	6,651	12,846	165	155	1,806	2,003	28,507	59,054	307	315	2,070	2,240	40,445	72,840
16	256	205	326	393	527	42	827	594	1,261	954	1,931	197	2,271	1,270	2,899	2,473	3,160	155
17	37	67	266	338	1,303	5,333	109	149	474	813	3,282	11,037	298	472	1,455	1,928	7,955	12,772
18	152	197	662	912	2,437	1,055	759	1,039	3,287	4,533	10,429	3,641	1,355	2,465	8,268	12,575	28,905	8,186
19	11	9	30	39	270	247	30	31	56	88	580	476	68	66	158	203	1,044	876
20	37	36	105	110	1,019	2,338	119	109	271	314	2,529	5,862	244	258	696	921	6,206	7,998
21	737	1,021	1,978	1,548	3,732	1,185	1,725	2,411	4,756	3,812	9,671	2,638	2,860	4,458	9,278	7,625	14,630	3,886
22	34	64	345	687	4,197	22,084	132	239	925	1,886	10,472	47,760	267	419	1,773	3,109	16,572	40,368
23	206	302	1,162	1,505	6,655	9,491	402	603	3,067	3,329	14,304	20,904	577	1,095	3,629	5,191	24,178	23,069
24	933	1,409	4,001	4,433	13,782	11,761	2,426	3,756	10,685	11,527	37,721	26,147	4,831	7,545	20,442	23,610	63,402	30,209
25	1,394	1,647	3,507	3,588	11,703	30,174	3,469	3,961	8,302	8,278	28,431	60,632	6,349	8,571	18,057	17,490	53,120	85,243
26	15	20	68	66	521	5,040	83	101	218	468	2,681	13,582	354	467	1,098	2,157	7,826	48,669
27	291	345	1,202	1,781	8,519	31,223	919	1,087	2,861	4,070	22,372	57,125	1,826	2,426	6,569	10,447	52,889	97,130
28	54	59	224	296	1,643	12,994	232	261	693	857	4,733	22,898	290	423	1,334	1,670	9,232	28,884
29	222	245	780	1,440	5,175	60,652	789	772	1,945	3,026	13,398	140,714	1,450	1,908	4,627	6,185	31,256	263,335
30	61	50	120	164	547	2,149	177	165	374	461	1,951	5,190	350	358	637	965	3,921	7,627
31	5	9	22	63	203	1,808	13	18	72	100	558	3,518	21	38	117	173	490	1,632
32	113	131	431	870	2,954	37,165	459	441	1,122	1,929	8,917	106,462	752	1,085	2,688	3,649	20,507	179,507
33	3	3	7	9	72	206	33	29	37	25	123	761	54	55	91	96	253	514
34	23	33	147	249	1,289	19,324	72	84	243	413	1,650	24,630	163	262	815	1,095	6,073	73,590
35	18	19	53	85	110	0	35	36	98	98	201	153	111	110	279	208	470	464
36	152	179	426	530	2,299	6,321	532	590	1,473	1,719	6,953	17,631	1,392	1,782	4,399	5,596	24,950	69,206
37	531	506	1,161	1,210	2,968	1,936	1,336	1,272	2,478	2,367	6,932	4,766	2,263	2,483	4,688	4,912	14,262	6,087
38	12,531	14,933	40,016	47,452	166,205	276,261	29,922	35,338	95,274	116,919	424,022	657,832	56,048	72,000	181,663	228,537	813,748	1,123,904

Table A.21. UNITED STATES, Gross value added (million US\$), by size category

ISIC Code	UNITED STATES, 1967					UNITED STATES, 1977					UNITED STATES, 1987							
	Value added (million US\$)					Value added (million US\$)					Value added (million US\$)							
	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+	1-9	10-19	20-49	50-99	100-499	500+
1	1,362	669	2,165	2,892	10,000	5,724	933	1,278	3,737	5,409	21,568	13,237	1,447	2,222	6,532	10,220	45,639	32,839
2	313	150	572	564	1,822	1,451	170	249	1,226	1,489	3,872	2,895	279	345	1,320	3,223	10,148	7,387
3	314	6	21	19	190	1,793	5	2	9	36	465	3,818	5	7	24	93	1,053	13,081
4	321	79	435	602	3,353	3,558	104	218	706	1,029	6,672	7,375	230	399	1,157	1,928	11,617	10,331
5	322	421	1,575	1,633	4,104	1,742	588	837	2,634	2,953	8,886	3,773	1,158	1,550	3,947	4,504	14,689	6,668
6	323	36	41	108	391	1,85	44	64	154	270	738	262	83	101	261	615	747	277
7	324	11	44	92	1,178	388	8	14	50	110	1,543	462	18	22	76	198	1,457	524
8	331	581	416	880	1,750	487	1,395	1,166	2,362	2,810	6,822	1,668	2,376	2,503	4,675	4,787	12,045	2,280
9	332	157	408	452	1,278	733	267	318	806	994	2,660	1,695	594	703	1,823	2,064	5,814	3,283
10	341	63	446	773	4,305	4,045	153	294	1,121	1,900	9,063	9,640	233	552	2,221	4,020	20,743	22,719
11	342	894	804	1,557	4,388	5,232	2,258	1,847	3,804	3,804	9,537	10,729	5,353	5,036	10,519	10,743	27,905	30,607
12	351	277	378	984	1,084	4,133	612	793	2,397	2,807	11,253	22,693	1,032	1,111	3,231	4,093	18,973	28,480
13	352	147	171	420	482	3,126	385	542	966	1,267	5,676	7,328	5,828	844	1,439	5,478	22,641	27,629
14	3522	25	25	85	128	35,953	78	127	248	309	2,157	7,021	170	312	685	946	8,680	17,368
15	353	29	12	35	90	1,491	6	17	254	261	4,006	9,881	49	62	282	315	3,894	9,622
16	354	88	78	133	156	203	229	184	472	326	697	105	735	456	985	855	1,209	59
17	355	19	32	115	188	721	50	73	234	345	1,729	5,546	160	252	788	1,018	4,286	6,855
18	356	80	103	349	472	1,321	354	495	1,569	2,129	5,173	2,044	692	1,252	4,018	5,858	14,713	4,544
19	361	8	6	21	27	184	20	20	40	62	397	354	47	42	109	131	721	635
20	362	22	20	56	62	612	61	60	140	164	1,442	3,615	133	144	368	467	3,650	4,766
21	369	350	488	976	872	2,202	813	1,111	2,217	1,913	5,121	1,577	1,364	2,145	4,538	3,891	7,903	2,330
22	371	18	30	173	332	2,043	48	99	422	782	4,398	18,825	107	175	755	1,264	6,629	17,120
23	372	88	137	447	555	2,195	122	253	1,156	1,031	4,278	6,507	248	478	1,450	1,933	8,126	7,837
24	381	537	791	2,125	2,290	6,935	1,199	1,882	5,275	5,599	17,926	13,111	2,605	4,121	10,579	11,714	30,929	15,689
25	382	929	1,105	2,223	2,130	6,603	2,145	2,452	5,058	4,832	16,078	33,220	4,127	5,434	10,862	10,174	27,897	48,566
26	3825	10	13	44	46	339	42	58	136	267	1,599	8,037	177	234	538	1,232	4,024	26,315
27	383	165	193	673	977	4,831	471	604	1,605	2,297	12,340	33,049	1,039	1,392	4,112	5,571	29,421	54,282
28	3832	32	34	138	176	921	121	152	396	511	2,615	13,426	160	221	746	927	4,995	15,981
29	384	103	127	397	672	2,531	340	352	889	1,367	6,159	51,149	644	887	2,187	2,930	14,924	99,424
30	3841	32	28	66	87	289	89	84	194	236	1,051	3,028	166	185	324	479	1,828	4,675
31	3842	2	4	10	30	70	6	7	32	50	227	1,560	11	19	53	88	244	881
32	3843	45	61	198	355	1,263	183	182	460	758	3,720	32,231	301	447	1,127	1,536	8,678	54,949
33	3844	1	1	3	4	30	9	11	18	13	46	273	22	23	41	38	88	156
34	3845	16	24	98	164	831	38	53	153	272	1,037	14,004	103	163	525	701	3,896	38,586
35	3849	7	8	21	33	47	15	15	32	38	80	53	42	51	116	89	190	178
36	385	92	110	251	306	1,388	320	363	910	1,076	4,330	11,764	935	1,169	2,843	3,450	15,483	47,095
37	39	286	276	610	644	1,631	646	650	1,290	1,231	3,699	2,777	1,210	1,284	2,511	2,553	8,372	3,665
38	3	6,105	7,168	18,241	20,890	75,247	13,786	16,295	41,580	48,561	178,126	287,137	28,399	36,197	87,243	105,169	374,126	534,613

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