



BOARD OF TRADE

S
42 [HA 251]



THE REPORT ON THE CENSUS OF PRODUCTION FOR 1958

Part 51
INDUSTRIAL PLANT AND STEELWORK

*Presented by the Board of Trade to Parliament in pursuance of the
Statistics of Trade Act, 1947 (10 & 11 Geo.6 Ch.39, Sec.7)*

LONDON: HER MAJESTY'S STATIONERY OFFICE
1961

PRICE 3s. 0d. NET

NOTES

These notes give only the main information which is needed for interpreting the census figures. Fuller explanations are given in a separate booklet of Introductory Notes (Part 1 of the Report on the Census of Production for 1958).

CHANGES IN THE 1958 CENSUS

Some changes were introduced in the 1958 census, which affect the comparability between 1954 and 1958 figures.

Returns in full detail were required only from firms employing 25 or more persons, instead of, as previously, from firms employing 11 or more persons.

The coverage of firms' returns for 1958 was in many cases rather wider than for 1954. In both years the census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but offices, warehouses, laboratories, etc. at addresses separate from the works were treated as part of the establishment. For 1958, but not for 1954, firms were asked to include also, in all sections of their returns, particulars relating to merchanting or factoring, canteens operated by them, and other ancillary activities, such as bottling, packing, and the manufacture of containers for packing their own products, whether or not these activities were carried on at the same address as the works, unless

they were conducted by a separate company, or by a separate department with a separate set of accounts; building and engineering maintenance departments were treated similarly. Selling and transport departments were treated in this way both for 1954 and 1958. While the effect of including these further ancillary activities was generally to produce higher figures for employment etc., the reporting of separate figures for merchant goods led to the exclusion of some firms who proved to be merchants with only minor productive activities.

Changes made for 1958 in the instructions governing the making of returns for two or more establishments operated by the same firm permitted combined returns to be made more freely than in previous censuses. Combined returns were accepted covering establishments in the same census industry, and situated in the same country (i.e. England, Scotland or Wales).

The 1954 figures have been re-tabulated to correspond as closely as possible to those for 1958, but because of the changes described above the correspondence is not always exact.

TERMS USED IN THE CENSUS REPORTS

CAPITAL EXPENDITURE

The expenditure on new building work shown excludes the cost of land and existing buildings purchased; for plant, machinery and vehicles both new and second-hand items are included. The value is that charged to capital account during the year, including any transport and installation cost involved. Capital expenditure in respect of establishments in Great Britain where production had not started before the end of the year is included in Table 1.

CHARACTERISTIC PRODUCTS (See the description of the method of classification before List of Tables)

EMPLOYMENT

(i) Working proprietors

These include all persons regarded as 'self-employed' for National Insurance purposes, and members of their families who worked in the business without receiving fixed wages or salaries; but persons working less than half the normal hours are excluded.

(ii) Employees

Employees are classified under the two main headings of (a) administrative, technical and clerical employees and (b) operatives. The figures relate to persons on the pay-roll (i.e. whose National Insurance cards were held by employers), whether full-time or part-time employees. The figures for 1958 include, but those for 1954 exclude, persons engaged in merchanting or factoring, and canteen workers.

Administrative, technical and clerical employees include managers, superintendents, and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses and, for 1958, canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting etc. are also included, but outworkers (i.e. persons employed by the firm who worked on materials

supplied by the firm in their own homes, etc.) are excluded.

(iii) Total employment

This is the sum of the average number of employees and the number of working proprietors; outworkers are excluded.

ENTERPRISE

The term enterprise is used in this report to mean one or more firms under common ownership or control as defined in the Companies Act, 1948. An enterprise normally consists either of a single firm, or of a holding company together with its subsidiary companies.

ENTRIES

The number of entries shown in Tables 4, 5 and 7 is the number of returns on which figures against a particular output or production heading were recorded. The number of entries is less than the corresponding number of establishments to the extent that combined returns were made covering more than one of the establishments concerned.

ESTABLISHMENT

In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine). Offices, warehouses, laboratories and other ancillary places of business at a separate address from the works were treated as part of the establishment.

INTERMEDIATE PRODUCTS

For some industries figures are given showing the total quantities made during the year of important intermediate products, i.e. products which may be further processed in the establishments in which they are produced, whether or not they are also sometimes sold. They include also goods produced from materials supplied by other firms.

MATERIALS AND FUEL

The totals shown include the cost of all purchases of materials and components for use in production, and of fuel (including oil, gas and electricity) for all purposes including heating, lighting and transport (where carried out by firms' own staff included in the return); all packing

materials, including the full cost of returnable cases and containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by their own work-people included in the return; consumable tools; and parts for machinery purchased during the year as replacements. Purchases of goods for merchandising or factoring, and canteen supplies, are included for 1958 but not for 1954. Materials supplied by customers for processing are excluded for both years.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport was included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including firms' own separate transport organisations, for delivery of materials and fuel are therefore excluded. Materials purchased overseas were entered at their c.i.f. cost plus any duty if the cost of transport from the docks was not included in the invoiced price, and at their full delivered cost if invoiced 'carriage paid home'.

NET OUTPUT

The net output of an industry represents the value added to materials by the process of production and includes for 1958 the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses, and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output.

Net output was normally obtained by taking the total value of sales and work done (including, for 1958, the value of merchanted goods sold and canteen takings); adding the value of stocks at the end of the year and deducting their value at the beginning of the year; and deducting also the cost of materials and fuel purchased (including, for 1958, the value of goods purchased for merchandising and canteen supplies), payments for work given out to other firms, and payments for transport. The net amount of duty paid was deducted, and the net amount of subsidy received added.

NET OUTPUT PER PERSON EMPLOYED

The figures for net output per person employed are derived by dividing net output by total employment (see above).

PRINCIPAL PRODUCTS (See the description of the method of classification before List of Tables)

SALES

Sales include goods made by the business covered by the return, those made for it by outworkers or by other firms from materials given out to them (sometimes described as goods made on commission), and waste products sold. Any machinery or other capital items produced for use in the business covered by the return are also included, the value being that adopted in the firm's capital account for income tax purposes. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included for 1958 but not for 1954; where the total sales of merchanted or factored goods were less than £5,000, firms were permitted to include them with the figures for sales of goods of their own production.

The value shown for sales is the net selling

SYMBOLS USED

The following symbols are used throughout the reports:

- .. for not available
- for nil or negligible (less than half the final digit shown)

value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas, are included at the f.o.b. value. For work done on commission or for the trade, the value shown is the net amount charged. With a few exceptions, receipts for business and other services are not included.

To the extent that the finished products of one establishment constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

STOCKS AND WORK IN PROGRESS

The values shown are the income tax values of stocks of products on hand for sale, and of materials and fuel, at the beginning and end of the year of return. For 1958, but not for 1954, they include any stocks of goods held for merchandising or factoring. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to subcontractors, and no deduction is made on account of progress payments received.

TRANSPORT PAYMENTS

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation of the same firm, not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, that is railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

WAGES AND SALARIES

These are the amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. is excluded.

Figures are also shown for average salaries etc. paid per head for the week ended 25th October, 1958. For staff paid monthly, the figures are based on payments made in October, 1958. Where payments related to periods other than a week or month, an appropriate proportion was returned. Only those bonuses and commissions actually paid in the period are included.

WORK GIVEN OUT

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

ROUNDING OF FIGURES

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

The Report on the Census of Production for 1958

Part 51. INDUSTRIAL PLANT AND STEELWORK

This report on the Industrial Plant and Steelwork Industry relates to establishments engaged in the manufacture of steam raising boilers of all types and accessories such as mechanical stokers, but not including marine boilers and hot water boilers cast in sections; lime and cement kilns; gas and coke oven plant; sintering plant; metallurgical furnaces and other metal manufacturing plant (excluding rolling mills); degreasing and coating plant; chemical and mineral oil refining plant; nuclear reactors; water and sewage treatment plant; industrial tanks and similar plate-work, and steelwork for buildings, bridges, etc. (including roof trusses and pre-fabricated buildings of steel and other metals). The industry corresponds to minimum list heading 341 of the second (1958) edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census.

This industry corresponds to Industry 4F (Constructional Engineering) in the reports on the last detailed Census of Production, for 1954, except that certain establishments engaged in the manufacture and erection of structural iron and steelwork, etc., formerly reported on in Industry 4F are now classified to the Construction Industry (Part 128). Boilers, kilns, furnaces, metal manufacturing plant and other plate and steelwork, formerly reported on in Industry 4I (Mechanical Engineering (General)), are now included in this industry. The items excluded from this report are classified and reported on as follows:- marine boilers to minimum list heading 370 (Shipbuilding and Marine Engineering Report, Part 62); hot water boilers cast in sections to minimum list heading 313 (Iron Castings, etc. Report, Part 40); rolling mills to minimum list heading 339 (Miscellaneous (Non-electrical) Machinery Report, Part 50).

For 1958, returns in full detail were required only from firms employing twenty-five or more persons and most of the tables in this report relate only to these larger firms. This is an important change from previous censuses when returns in full detail were required from firms employing eleven or more persons on productive work. Estimates for the industry as a whole are given in Table 1.

The figures given for 1954 correspond as closely as possible to those collected for 1958 but the correspondence is not exact, especially in respect of the small firms who gave only limited information. Some other changes introduced in the 1958 Census also affect the comparability between 1954 and 1958 figures; these are explained in the notes prefacing this report.

TREATMENT OF PARTS

In the 1958 Census reports for this and other mechanical engineering industries, a distinction is made between parts sold in association with the sale of complete machinery or plant, and other parts sold. The only parts shown in Table 4 are those included on returns (whether classified to this or to other industries) which also showed sales of industrial plant; where the return was classified to another industry, these parts are also shown, together with the complete plant, in Table 5.

Parts of industrial plant included on returns which showed no sales of the complete plant are treated as principal products of General Mechanical Engineering (Part 53) whether made by general engineering firms or by specialist manufacturers of other types of machinery and plant.

Sales of all parts of industrial plant (i.e. whether or not sold in association with the sale of the complete plant) are brought together in Table 9 at the end of this report.

This industry is defined in terms of its 'principal products' which are those shown in Table 4. A census return was classified to this industry if the sales of the principal products of this industry (excluding parts, etc. as mentioned below) accounted for a greater proportion of its output than the principal products of any other industry (with corresponding exclusions). Where, however, the application of this rule would have resulted in a change of classification between 1954 (on the revised basis) and 1958, the return was classified to the same industry as for 1954 unless the output of principal products in the new industry was one third more than in the old; this modification of the general rule was designed to avoid discontinuities as the result of marginal changes of output between the two censuses. The rule was also modified in the case of returns with amounts totalling 50 per cent. or more at structural work headings, which include the value of materials supplied or 80 per cent. or more at headings for installation work on, or sales of, air-conditioning, heating and ventilating plant (or a proportionate combination of these two groups of headings); these returns were classified to the Construction Industry (Part 128). Sales of machinery parts, and work done (other than structural and installation work), including repair work, were not taken into account in classifying returns except in cases where they exceeded 80 per cent. of the total output of the return (in which case the return was classified to the General Mechanical Engineering Industry (Part 53)) or where the return would otherwise have been classified outside the mechanical engineering group of industries. Sales of merchantable products and of non-specific items such as waste products and canteen takings were also not taken into account in classifying returns.

A similar procedure was followed in classifying to the sub-divisions of the industry shown in Table 2, the sub-divisions being defined in terms of their 'characteristic products'. The numbers shown in the left hand column of Table 4 identify the sub-division of which the item is a characteristic product. The total value of sales of characteristic products shown in Table 2 includes, besides the sales of complete industrial plant, which were taken into account in determining the classification of the return, sales of parts of industrial plant and the value of installation work reported on returns classified to the sub-division; but these items were not taken into account in determining the classification to sub-divisions.

LIST OF TABLES

| Table No. | Title | Page |
|-----------|---|----------------|
| 1 | Industry summary: United Kingdom. Estimates for all firms | 51/3 |
| 2 | Analysis by sub-divisions of the industry | 51/4 |
| 3 | Analysis by size of enterprise within the industry, 1958 | 51/5 |
| 4 | Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries | 51/6 |
| 5 | Sales of principal products of the industry by establishments classified to other industries | 51/10 |
| 6 | Sales of other than principal products by larger firms in the industry | 51/14 |
| 7 | Total make of intermediate products, 1958 | Does not apply |
| 8 | Employment and salaries, etc. for the week ended October 25, 1958 | 51/19 |
| 9 | Sales of all parts of industrial plant by larger firms, including sales by establishments classified to other industries | 51/20 |

Industry summary: United Kingdom

TABLE 1 Estimates for all firms (a)

| | Unit | 1954 | 1958 | |
|---|--|---------|---------|---------|
| Number of enterprises | No. | .. | 859 | |
| Number of establishments | .. | .. | 960 | |
| Sales | { goods produced and work done | £'000 | 233,064 | 371,508 |
| | { merchantable goods and canteen takings | .. | .. | 14,810 |
| Purchases of materials and fuel (b) | .. | 112,079 | 206,898 | |
| Products on hand for sale (b) | { change during year | .. | + 837 | + 361 |
| | { at end of year | .. | 7,110 | 4,495 |
| Work in progress | { change during year | .. | + 3,085 | + 5,164 |
| | { at end of year | .. | 45,171 | 97,935 |
| Stocks of materials and fuel (b) | { change during year | .. | - 211 | - 2,935 |
| | { at end of year | .. | 19,132 | 30,146 |
| Payments for work done on materials given out | .. | 11,852 | 11,927 | |
| Payments for transport | .. | 3,206 | 3,907 | |
| Net output | .. | 109,639 | 166,176 | |
| Average number employed (c) | { operatives | Th. | 85.1 | 96.3 |
| | { other employees | .. | 32.2 | 43.0 |
| | { total, including working proprietors | .. | 117.5 | 139.5 |
| Wages and salaries | { of operatives | £'000 | 43,635 | 63,937 |
| | { of other employees | .. | 19,342 | 34,146 |
| Capital expenditure (d) | | | | |
| New building work | .. | 2,125 | 3,455 | |
| Plant and machinery | { acquisitions | .. | 4,360 | 7,147 |
| | { disposals | .. | 147 | 126 |
| Vehicles | { acquisitions | .. | 842 | 1,318 |
| | { disposals | .. | 183 | 417 |

(a) For 1958, estimates in respect of returns from small firms and unsatisfactory returns accounted for about 4 per cent. of the total figures in which they were incorporated. A summary of the detailed returns received is given in Table 2.

(b) Goods for merchanting and canteen supplies are included for 1958 but excluded for 1954.

(c) Persons engaged in merchanting or factoring and canteen workers are included for 1958 but excluded for 1954.

(d) Including expenditure in Great Britain for establishments not yet in production.

Analysis by sub-divisions of the industry

TABLE 2 Firms employing 25 or more persons: United Kingdom (a)

| | Unit | Sub-divisions of the industry (b) | | | | Total | |
|---|-------|-----------------------------------|---------|---|---------|---------|---------|
| | | Boiler and boiler-house plant | | Other industrial plant and fabricated steelwork | | 1954 | 1958 |
| | | 10 | 20 | 1954 | 1958 | | |
| Number of enterprises (c) | No. | 42 | 36 | 352 | 383 | 390 | 414 |
| Number of establishments | " | 53 | 45 | 429 | 464 | 482 | 509 |
| Sales | £'000 | 56,585 | 74,108 | 166,141 | 280,921 | 222,726 | 355,029 |
| | | | 874 | .. | 13,279 | .. | 14,153 |
| Sales of characteristic products | | 36,169 | 51,923 | 80,966 | 124,747 | | |
| | | 3,930 | 4,035 | 47,476 | 92,665 | | |
| Purchases of materials and fuel (d) | " | 25,375 | 39,328 | 81,732 | 158,392 | 107,107 | 197,720 |
| Products on hand for sale (d) | | + 151 | - 9 | + 649 | + 354 | + 800 | + 345 |
| | | 1,522 | 729 | 5,273 | 3,566 | 6,795 | 4,295 |
| Work in progress | | + 1,122 | + 7,124 | + 1,826 | - 2,190 | + 2,948 | + 4,935 |
| | | 14,195 | 24,581 | 28,972 | 69,009 | 43,167 | 93,591 |
| Stocks of materials and fuel (d) | | - 417 | - 219 | + 215 | - 2,586 | - 201 | - 2,805 |
| | | 4,991 | 8,590 | 13,293 | 20,219 | 18,284 | 28,809 |
| Payments for work done on materials given out | " | 1,442 | 2,336 | 9,884 | 9,062 | 11,326 | 11,398 |
| Payments for transport | " | 1,009 | 916 | 2,055 | 2,818 | 3,064 | 3,734 |
| Net output | " | 29,615 | 39,298 | 75,160 | 119,506 | 104,775 | 158,804 |
| Average number employed (e) | No. | 23,806 | 21,602 | 57,654 | 70,517 | 81,460 | 92,119 |
| | | 8,720 | 10,110 | 22,071 | 31,055 | 30,791 | 41,165 |
| | | 32,531 | 31,719 | 79,740 | 101,592 | 112,271 | 133,311 |
| Net output per person employed | £ | 910 | 1,239 | 943 | 1,176 | 933 | 1,191 |
| Wages and salaries | £'000 | 12,275 | 14,622 | 29,480 | 46,559 | 41,755 | 61,182 |
| | | 5,252 | 7,833 | 13,256 | 24,842 | 18,508 | 32,675 |
| Wages and salaries per head | £ | 516 | 677 | 511 | 660 | 513 | 664 |
| | | 602 | 775 | 601 | 800 | 601 | 794 |
| Capital expenditure (f) | £'000 | 478 | 723 | 1,449 | 2,568 | 1,927 | 3,292 |
| New building work | " | 1,439 | 2,465 | 2,709 | 4,365 | 4,148 | 6,829 |
| Plant and machinery | | 42 | 23 | 98 | 97 | 140 | 121 |
| Vehicles | | 166 | 205 | 639 | 1,054 | 804 | 1,259 |
| | | 40 | 56 | 135 | 342 | 175 | 398 |

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry:

| | |
|--|-------|
| | 1958 |
| Number of returns | 379 |
| Average number of persons employed including working proprietors | |
| Males | 4,018 |
| Females | 422 |

(b) The method of classifying returns to sub-divisions of the industry is explained at the beginning of this report; the characteristic products of each sub-division are identified in Table 4.

(c) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.

(d) Goods for merchandising and canteen supplies are included for 1958 but excluded for 1954.

(e) Persons engaged in merchandising or factoring and canteen workers are included for 1958 but excluded for 1954.

(f) Excluding expenditure at establishments not yet in production.

Analysis by size of enterprise within the industry, 1958

TABLE 3 Firms employing 25 or more persons: United Kingdom

| Average number employed by the enterprise in this industry (a) | Enterprises | Estab-lish-ments | Total sales (b) | Net output | Employees | | Wages and salaries | | Capital expenditure (c) | Net out-put per person employed (a) |
|--|-------------|------------------|-----------------|------------|------------|--------|--------------------|--------|-------------------------|-------------------------------------|
| | | | | | Operatives | Others | Operatives | Others | | |
| | | | | | Number | Number | £'000 | £'000 | | |
| 25 - 49 | 111 | 114 | 9,240 | 4,493 | 3,256 | 969 | 1,952 | 729 | 310 | 1,060 |
| 50 - 99 | 114 | 125 | 18,744 | 8,468 | 6,167 | 1,919 | 3,766 | 1,488 | 632 | 1,047 |
| 100 - 199 | 73 | 84 | 26,983 | 12,479 | 7,899 | 2,815 | 4,974 | 2,211 | 737 | 1,164 |
| 200 - 299 | 32 | 45 | 25,440 | 8,644 | 5,541 | 2,488 | 3,744 | 2,017 | 668 | 1,077 |
| 300 - 399 | 16 | 17 | 15,690 | 6,599 | 4,003 | 1,738 | 2,464 | 1,353 | 347 | 1,149 |
| 400 - 499 | 11 | 16 | 12,240 | 5,383 | 3,539 | 1,351 | 2,228 | 1,133 | 428 | 1,101 |
| 500 - 749 | 21 | 38 | 36,242 | 15,276 | 9,345 | 4,319 | 6,250 | 3,382 | 854 | 1,118 |
| 750 - 999 | 7 | 11 | 17,894 | 7,005 | 4,004 | 1,446 | 2,429 | 1,091 | 362 | 1,281 |
| 1,000 - 1,499 | 12 | 17 | 37,961 | 16,783 | 9,370 | 4,879 | 5,941 | 3,778 | 1,245 | 1,177 |
| 1,500 - 1,999 | 6 | 12 | 29,913 | 11,271 | 7,932 | 2,609 | 5,336 | 1,992 | 529 | 1,069 |
| 2,000 - 2,499 | 4 | 7 | 24,554 | 12,078 | 6,121 | 2,825 | 4,362 | 1,975 | 1,176 | 1,350 |
| 3,000 and over | 7 | 23 | 114,281 | 50,326 | 24,942 | 13,807 | 17,735 | 11,526 | 4,092 | 1,299 |
| Total | 414 | 509 | 369,181 | 158,804 | 92,119 | 41,165 | 61,182 | 32,675 | 11,381 | 1,191 |

(a) Including working proprietors.

(b) Value of sales of goods (including merchant goods), work done, and canteen takings.

(c) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.

Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries

TABLE 4 Firms employing 25 or more persons: United Kingdom

| Industry sub-division (a) | 1954 | | 1958 | | | | |
|---------------------------|--|-------|----------|-------|--------------|---------|----|
| | Quantity | Value | Quantity | Value | Enter-prises | Entries | |
| | Number | £'000 | Number | £'000 | Number | Number | |
| INDUSTRIAL PLANT | | | | | | | |
| COMPLETE MACHINES | | | | | | | |
| 10 | Condensers, steam, other than for turbines and marine use | 74 | 117 | 48 | 270 | 6 | 6 |
| 10 | Boilers and boiler-house plant, other than boilers for ships and locomotives, burners and furnaces | .. | 24 | .. | .. | .. | .. |
| | Boilers | | | | | | |
| | Water tube | .. | 15,152 | .. | 35,208 | 22 | 22 |
| | Other boilers, including sectional boilers for steam, and locomotive type boilers for stationary purposes, but excluding sectional boilers for central heating | .. | 6,593 | .. | 8,920 | 41 | 46 |
| | Boiler-house plant, sold separately | | | | | | |
| | Fuel economisers, feed water heaters and steam superheaters | .. | 5,871 | .. | 6,422 | 17 | 17 |
| | Boiler firing plant | | | | | | |
| | Mechanical stokers | .. | 2,515 | .. | 1,351 | 18 | 19 |
| | Other boiler firing plant | .. | 1,737 | .. | .. | .. | .. |
| | Other boiler-house plant | .. | 10,103 | .. | 4,891 | 22 | 23 |
| 10 | Electrostatic precipitation plant | .. | .. | .. | 2,072 | .. | .. |
| Furnaces and kilns | | | | | | | |
| 10 | Boiler furnaces | 165 | 53 | 383 | 86 | .. | .. |
| 20 | Blast furnaces | .. | 2,160 | .. | 4,523 | .. | .. |
| 20 | Other metallurgical furnaces | | | | | | |
| | Electric | 1,447 | 2,651 | 2,028 | 5,183 | 20 | 20 |
| | Gas | 803 | 1,703 | 797 | 3,654 | 15 | 15 |
| | Oil | 285 | 504 | 95 | 173 | 12 | 12 |
| | Other descriptions | 369 | 134 | 216 | 259 | 11 | 11 |
| | | .. | 418 | .. | 213 | .. | .. |
| 20 | Other furnaces and kilns | 553 | 530 | 180 | 442 | 13 | 15 |
| | | .. | 623 | .. | 846 | .. | .. |
| 20 | Chemical making machinery and plant, not elsewhere specified | | | | | | |
| | Mineral oil refining | .. | 4,145 | .. | 672 | 10 | 10 |
| | Oil (other than mineral) extraction and refining | .. | 1,352 | .. | 735 | 10 | 10 |
| | Paint, varnish and ink making | .. | 594 | .. | 466 | 21 | 24 |

TABLE 4 (contd.)

| Industry sub-division (a) | 1954 | | 1958 | | | | |
|----------------------------|---|-------------|----------|--------------|--------------|---------|-----|
| | Quantity | Value | Quantity | Value | Enter-prises | Entries | |
| | Number | £'000 | Number | £'000 | Number | Number | |
| INDUSTRIAL PLANT (contd.) | | | | | | | |
| COMPLETE MACHINES (contd.) | | | | | | | |
| 20 | Chemical making machinery and plant, not elsewhere specified (contd.) | | | | | | |
| | Soap and fatty acid making | .. | 318 | .. | 260 | 14 | 15 |
| | Other chemical machinery and plant | .. | 6,416 | .. | 7,909 | 71 | 71 |
| | Complete machines and parts, not separately distinguished | .. | 5,094 | .. | 5,870 | 5 | 13 |
| 20 | Gas works plant, not elsewhere specified | | | | | | |
| | Coal carbonising plant | .. | 1,556 | .. | 2,129 | 10 | 10 |
| | Water-gas, producer gas and complete gasification plant | .. | 759 | .. | 1,021 | .. | .. |
| | Other, including by-products plant | .. | 7,166 | .. | 5,682 | 18 | 18 |
| 20 | Grain processing machinery and plant | .. | 2,481 | .. | 2,413 | 20 | 20 |
| 20 | Iron, steel and non-ferrous metal works plant, excluding plant for rolling mills, not elsewhere specified | .. | 2,518 | .. | 4,035 | 27 | 28 |
| 20 | Refuse disposal machinery | .. | 1,813 | .. | 441 | 6 | 6 |
| 20 | Sewage disposal machinery | .. | .. | .. | 1,942 | 14 | 14 |
| 20 | Water treatment plant, other than plant for waterworks | | | | | | |
| | Domestic water softeners, water filters and water sterilising equipment | .. | 192 | .. | 227 | .. | .. |
| | Other water treatment plant | .. | 3,304 | .. | 6,658 | .. | .. |
| 20 | Waterworks equipment and plant | .. | 1,409 | .. | 1,707 | 10 | 11 |
| 20 | Other machinery and plant | .. | 783 | .. | 2,395 | .. | .. |
| | PARTS of industrial plant sold in association with the sale of complete machines (b) | .. | 17,005 | .. | 18,792 | .. | .. |
| | Total industrial plant | | 107,799 | | 139,049 | .. | .. |
| 20 | FABRICATED IRON AND STEELWORK, including similar work in other metals (c) | | | | | | |
| | Storage tanks of iron or steel, assembled or not, 3/16 in. and over in thickness | Tons 88,887 | 9,076 | Tons 156,961 | 18,408 | 150 | 152 |
| | | .. | 2,643 | .. | 3,850 | .. | .. |
| | Heavy plate work, not elsewhere specified (d) | | | | | | |
| | Buoys and flotation vessels | 238 | 86 | 1,042 | 183 | 14 | 14 |
| | | .. | .. | .. | 133 | .. | .. |
| | Bunkers, bins and silos | 1,103 | 116 | 7,961 | 890 | 73 | 73 |
| | | .. | .. | .. | 520 | .. | .. |

TABLE 4 (contd.)

| Industry sub-division (a) | 1954 | | 1958 | | | |
|---|-----------------|-------------------|-----------------|--------------------|-------------|---------|
| | Quantity | Value | Quantity | Value | Enterprises | Entries |
| | Tons | £'000 | Tons | £'000 | Number | Number |
| 20 FABRICATED IRON AND STEELWORK, including similar work in other metals (c) (contd.) | | | | | | |
| Heavy plate work, not elsewhere specified (d) (contd.) | | | | | | |
| Heat exchangers | { 552 .. | { 139 159 | { 8,431 .. | { 2,990 2,782 | { 38 | { 38 |
| Pipes and chimneys | { 4,675 .. | { 503 429 | { 25,416 .. | { 3,563 1,481 | { 98 | { 101 |
| Pressure vessels | { 4,559 .. | { 692 338 | { 24,460 .. | { 4,822 2,697 | { 79 | { 79 |
| Other vessels | { 9,888 .. | { 1,457 1,193 | { 7,880 .. | { 1,927 650 | { 67 | { 67 |
| Other and unclassified welded and rivetted built-up plate work | { 26,265 .. | { 2,491 758 | { 35,606 .. | { 5,116 1,330 | { 132 | { 135 |
| Other fabricated iron and steelwork | | | | | | |
| Bridge components | { 5,122 .. | { 514 1,090 | { 17,090 .. | { 2,055 166 | { 24 | { 25 |
| Mast and tower components | { 30,227 .. | { 2,399 435 | { 41,464 .. | { 4,864 540 | { 31 | { 34 |
| Steel shuttering, including road forms | { 9,335 .. | { 782 349 | { 1,837 .. | { 337 648 | { 15 | { 15 |
| Staircases of iron and steel | { 3,862 .. | { 505 308 | { 6,392 .. | { 751 145 | { 57 | { 57 |
| Other, including steelwork separately consigned prepared ready for assembly | { 236,324 .. | { 20,780 7,991 | { 136,071 .. | { 14,273 16,461 | { 289 | { 294 |
| Unclassified | { 67,913 .. | { 4,117 1,674 | { 30,992 .. | { 2,402 1,110 | { 16 | { 16 |
| Prefabricated houses of aluminium | Number 416 | 923 | - | - | - | - |
| Other portable or prefabricated buildings and frame-work and frame sections for prefabricated, temporary and portable buildings | | | | | | |
| Of steel | { 11,578 .. | { 1,400 356 | { 28,568 .. | { 3,267 2,463 | { 26 | { 27 |
| Of aluminium | { 1,409 .. | { 795 324 | { | { 336 | { 5 | { 5 |
| Tubular scaffolding of steel and aluminium, including fittings | { 3,552 .. | { 569 238 | { 5,858 .. | { 742 552 | { 13 | { 13 |
| Total fabricated iron and steelwork (c) | | 65,610 | | 102,454 | .. | .. |

Continued on opposite page

TABLE 4 (contd.)

| Industry sub-division (a) | 1954 | | 1958 | | | |
|--|----------|---------|----------|------------|-------------|---------|
| | Quantity | Value | Quantity | Value | Enterprises | Entries |
| | | £'000 | | £'000 | Number | Number |
| OTHER PRINCIPAL PRODUCTS | .. | 2,175 | .. | 1,682 | .. | .. |
| WASTE PRODUCTS | | | | | | |
| Scrap metals sold | Th. tons | | Th. tons | | | |
| Iron and steel | 98.7 | 604 | 92.4 | 828 299 | 296 | 317 |
| Brass | 0.4 | 50 | 0.3 | 30 9 | 73 | 74 |
| Copper | .. | 13 | .. | 16 | 36 | 36 |
| Other metals | .. | 81 | .. | 80 | 50 | 52 |
| Other waste products | .. | 85 | .. | 99 | 20 | 21 |
| WORK DONE | | | | | | |
| Machinery and plant erected and installed and other installation work (e) | | 38,737 | | 78,893 | 228 | 233 |
| Research and development work | | | | 1,581 | 12 | 12 |
| Total | | 215,158 | | 325,019 | .. | .. |
| Sales in other industries (see Table 5) | | 40,196 | | 44,103 | .. | .. |
| Principal products of this industry sold by establishments in the industry | | 174,961 | | 280,916 | 414 | 457 (f) |

(a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger firms, not merely sales by establishments classified to the sub-division.

(b) For details of these parts see Table 9.

(c) Excluding fabricated iron and steelwork sold by establishments classified to the Construction Industry.

(d) So far as separately recorded in 1954.

(e) Includes, for 1958 only, machinery and plant erected and installed, other than air conditioning, heating and ventilating machinery and plant, by establishments classified to the Construction Industry.

(f) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments shown in Table 2 on account of combined returns covering more than one establishment.

Sales of principal products of the industry by establishments
classified to other industries

TABLE 5

Firms employing 25 or more persons: United Kingdom

| | 1954 | | 1958 | | | |
|---|----------|-----------------|----------|-----------------|-------------------|--|
| | Quantity | Value £' 000 | Quantity | Value £' 000 | Entries Number | Principal industries in which produced (a) |
| Industrial plant | | | | | | |
| Boilers and boiler-house plant, other than boilers for ships and locomotives, burners and furnaces | | | | | | |
| Boilers | | | | | | |
| Water tube | | | | | | |
| Complete | .. | 79 | .. | 2,169 | 15 | 45, 48, 50, 56 |
| Parts (b) | .. | 182 | | | | |
| Other boilers, including sectional boilers for steam, and locomotive type boilers for stationary purposes, but excluding sectional boilers for central heating | | | | | | |
| Complete | .. | 1,727 | .. | 1,901 | 18 | 45, 50, 62, 75 |
| Parts (b) | .. | 91 | .. | 109 | 10 | 45, 47, 50 |
| Boiler-house plant, sold separately | | | | | | |
| Fuel economisers, feed water heaters, and steam superheaters | | | | | | |
| Complete | .. | 1,239 | .. | 555 | 6 | 45, 50, 62 |
| Parts (b) | .. | 113 | .. | 78 | 6 | 45, 50 |
| Boiler firing plant | | | | | | |
| Mechanical stokers | | | | | | |
| Complete | .. | 217 | .. | 172 | 6 | 43, 48, 53 |
| Parts (b) | .. | 87 | .. | 146 | 7 | 43 |
| Other boiler-house plant, including electrostatic precipitation plant | | | | | | |
| Complete | .. | 948 | .. | 800 | 11 | 45, 50, 54 |
| Parts (b) | .. | 361 | .. | 219 | 11 | 45, 50, 53 |
| Furnaces and kilns | | | | | | |
| Metallurgical furnaces | | | | | | |
| Electric | | | | | | |
| Complete | .. | 223 | .. | 260 | 8 | 50, 53, 56, 66 |
| Parts (b) | .. | 87 | .. | 18 | 6 | 53 |
| Gas | | | | | | |
| Complete | .. | 180 | .. | 55 | 6 | 48, 50 |
| Parts (b) | .. | | .. | | | |

TABLE 5 (contd.)

| | 1954 | | 1958 | | | |
|---|----------|-----------------|----------|-----------------|-------------------|--|
| | Quantity | Value £' 000 | Quantity | Value £' 000 | Entries Number | Principal industries in which produced (a) |
| Industrial plant (contd.) | | | | | | |
| Furnaces and kilns (contd.) | | | | | | |
| Metallurgical furnaces (contd.) | | | | | | |
| Oil | | | | | | |
| Complete | .. | 49 | .. | 13 | 5 | (c) |
| Parts (b) | .. | 19 | | | | |
| Other descriptions, including blast furnaces | | | | | | |
| Complete | .. | 507 | .. | 338 | 11 | 50, 53 |
| Parts (b) | .. | | .. | | | |
| Other furnaces and kilns | | | | | | |
| Complete | .. | 1,111 | .. | 853 | 11 | 45, 48, 62, 106 |
| Parts (b) | .. | 184 | .. | 111 | 11 | 45, 50, 53, 62 |
| Chemical making machinery and plant, not elsewhere specified | | | | | | |
| Mineral oil refining | | | | | | |
| Complete | .. | 45 | .. | 183 | 9 | 45, 50 |
| Parts (b) | .. | 110 | | | | |
| Oil (other than mineral) extraction and refining | | | | | | |
| Complete | .. | 174 | .. | 91 | 10 | 50, 62 |
| Parts (b) | .. | | .. | | | |
| Paint, varnish and ink making | | | | | | |
| Complete | .. | 175 | .. | 124 | 13 | 50, 52 |
| Parts (b) | .. | 38 | .. | 40 | 10 | 50, 52 |
| Soap and fatty acid making | | | | | | |
| Complete | .. | 225 | .. | 170 | 10 | 48, 50, 62 |
| Parts (b) | .. | 36 | .. | 18 | 10 | (c) |
| Other chemical machinery and plant | | | | | | |
| Complete | .. | 3,101 | .. | 1,962 | 35 | 50, 53, 63, 75 |
| Parts (b) | .. | 538 | .. | 379 | 31 | 45, 50, 53 |
| Complete machines and parts, unclassified | .. | 5,094 | .. | 5,591 | .. | 25, 50 |
| Gas works plant, not elsewhere specified | | | | | | |
| Coal carbonising plant | | | | | | |
| Complete | .. | 77 | .. | 535 | 11 | 48, 50 |
| Parts (b) | .. | | .. | | | |

TABLE 5 (contd.)

| | 1954 | | 1958 | | | |
|---|----------|----------------|----------|----------------|-------------------|--|
| | Quantity | Value £'000 | Quantity | Value £'000 | Entries Number | Principal industries in which produced (a) |
| Industrial plant (contd.) | | | | | | |
| Gas works plant, not elsewhere specified (contd.) | | | | | | |
| Water-gas, producer gas and complete gasification plant | | | | | | |
| Complete | .. | 54 | .. | 94 | 6 | 48, 50, 53 |
| Parts (b) | .. | .. | .. | .. | .. | .. |
| Other, including by-products plant | | | | | | |
| Complete | .. | 345 | .. | 103 | 7 | 50, 53, 75 |
| Parts (b) | .. | 256 | .. | .. | .. | .. |
| Grain processing machinery and plant | | | | | | |
| Complete | .. | 667 | .. | 450 | 11 | 42, 50, 53, 56 |
| Parts (b) | .. | 210 | .. | 133 | 11 | 42, 50, 56 |
| Iron, steel and non-ferrous metal works plant, excluding plant for rolling mills, not elsewhere specified | | | | | | |
| Complete | .. | 2,165 | .. | 396 | 10 | 38, 47, 50, 53 |
| Parts (b) | .. | 849 | .. | 161 | 11 | 43, 48, 50 |
| Refuse and sewage disposal machinery | | | | | | |
| Complete | .. | 556 | .. | 363 | 6 | 40, 50 |
| Parts (b) | .. | 80 | .. | 52 | .. | 50 |
| Water treatment plant, other than plant for waterworks | | | | | | |
| Domestic water softeners, water filters and water sterilising equipment | | | | | | |
| Complete | .. | 42 | .. | 39 | .. | 50, 61 |
| Parts (b) | .. | .. | .. | .. | .. | .. |
| Other water treatment plant | | | | | | |
| Complete | .. | 1,195 | .. | 3,368 | 11 | 50, 53 |
| Parts (b) | .. | 144 | .. | 528 | 9 | 50 |
| Other machinery and plant | | | | | | |
| Complete | .. | 651 | .. | 569 | 9 | 45, 50, 53, 62 |
| Parts (b) | .. | 80 | .. | 43 | 7 | 45, 50 |
| Total industrial plant | | | | | | |
| Complete | .. | 20,514 | .. | 20,316 | .. | .. |
| Parts (b) | .. | 3,798 | .. | 2,871 | .. | .. |

TABLE 5 (contd.)

| | 1954 | | 1958 | | | |
|---|----------|----------------|----------|----------------|-------------------|--|
| | Quantity | Value £'000 | Quantity | Value £'000 | Entries Number | Principal industries in which produced (a) |
| Fabricated iron and steelwork, including similar work in other metals (d) | | | | | | |
| Storage tanks of iron or steel, assembled or not, 3/16 in. and over in thickness | 3,055 | 324 | 1,975 | 218 | 47 | 28, 53, 63, 75 |
| Heavy plate work, not elsewhere specified (e) | .. | 1,330 | .. | 1,349 | .. | .. |
| Heat exchangers | .. | 185 | 1,028 | 509 | 9 | 50, 62, 63, 72 |
| Pipes and chimneys | .. | .. | 858 | 210 | 22 | 42, 45, 48, 62 |
| Pressure vessels | .. | 1,228 | 7,012 | 1,482 | 13 | 39, 45, 52, 75 |
| Other vessels | .. | .. | 360 | 69 | 18 | 50, 63, 64, 75 |
| Other welded and rivetted built-up plate work, including buoys and flotation vessels, and bunkers, bins and silos | 1,578 | 234 | 3,940 | 615 | 66 | 48, 50, 67, 75 |
| Other fabricated iron and steelwork | .. | 231 | .. | 510 | .. | .. |
| Mast and tower components | .. | 340 | .. | .. | .. | .. |
| Bridge components | .. | 172 | .. | 950 | 10 | 43, 50, 56, 75 |
| Steel shuttering, including road forms | 1,039 | 120 | .. | .. | .. | .. |
| Staircases of iron and steel | 1,034 | 268 | 764 | 172 | 22 | 40, 48, 50, 75 |
| Other, including steelwork separately consigned prepared ready for assembly | .. | 82 | .. | 79 | .. | .. |
| Unclassified | 19,449 | 2,568 | 19,749 | 2,538 | 126 | (f) |
| Portable or prefabricated buildings and frame-work and frame sections for prefabricated, temporary and portable buildings | .. | 2,767 | .. | 4,803 | .. | .. |
| Of steel | 63,656 | 3,824 | 27,640 | 2,127 | 13 | 28, 38, 39, 71 |
| Of aluminium | .. | 1,580 | .. | 898 | .. | .. |
| Total fabricated iron and steelwork | | 15,878 | | 17,470 | .. | .. |
| Other products | .. | 6 | .. | 9 | .. | .. |
| Machinery and plant erected and installed and other installation work (g) | .. | .. | .. | 3,435 | 136 | 128 |
| Total | | 40,196 | | 44,103 | .. | .. |

- (a) The references given are to the list of industries at the back of this report.
(b) Parts sold in association with the sale of complete machines characteristic of this industry.
(c) No significant production was recorded in other industries.
(d) Excluding fabricated iron and steelwork sold by establishments classified to the Construction Industry.
(e) So far as separately recorded in 1954.
(f) Production is widely distributed.
(g) Machinery and plant erected and installed, other than air-conditioning, heating and ventilating machinery and plant, by establishments classified to the Construction Industry.

Sales of other than principal products by larger firms in the industry

TABLE 6. Firms employing 25 or more persons: United Kingdom

| | 1954 | 1958 |
|--|-------|-------|
| | Value | Value |
| | £'000 | £'000 |
| Mechanical Engineering | | |
| Agricultural machinery | | |
| Grain and grass driers | | |
| Complete | 156 | 108 |
| Parts (a) | | |
| Other machinery | | |
| Complete | 320 | 235 |
| Parts (a) | 58 | 110 |
| Metal working machine tools; and engineers' small tools and gauges | | |
| Metal working machine tools | | |
| Complete | 575 | 759 |
| Parts (a) | 25 | 83 |
| Jigs and fixtures, other than hard metal | 17 | 55 |
| Other products | 23 | 74 |
| Industrial engines | | |
| Complete | 817 | 46 |
| Parts (a) | | |
| Textile machinery and accessories | | |
| Complete | 220 | 155 |
| Parts (a) | | |
| Contractors' plant and quarrying machinery | | |
| Complete | 1,843 | 2,114 |
| Parts (a) | | |
| Mechanical handling equipment | | |
| Conveyors and elevators, other than hay and corn elevators | | |
| Belt | | |
| Complete | 1,026 | 1,022 |
| Parts (a) | 99 | 229 |
| Other | | |
| Complete | 964 | 703 |
| Parts (a) | 240 | 142 |
| Aerial transporters, with or without hoisting gear and rope-hauled dragcrapers | | |
| Complete | 170 | 53 |
| Parts (a) | 89 | 7 |

TABLE 6 (contd.)

| | 1954 | 1958 |
|--|-------|-------|
| | Value | Value |
| | £'000 | £'000 |
| Mechanical Engineering (contd.) | | |
| Mechanical handling equipment (contd.) | | |
| Cranes and bridge transporters | | |
| Complete | 1,214 | 3,040 |
| Parts (a) | | |
| Hoists and other lifting machinery, including winches and capstans | | |
| Complete | 89 | 47 |
| Parts (a) | | |
| Other equipment | | |
| Complete | 1,290 | 972 |
| Parts (a) | 79 | 131 |
| Miscellaneous (non-electrical) machinery | | |
| Mining machinery | | |
| Coal preparation plant | | |
| Complete | 367 | 974 |
| Parts (a) | 93 | 333 |
| Conveyors, underground | | |
| Complete | 176 | 147 |
| Parts (a) | | |
| Power loaders, including cutter loaders | | |
| Complete | - | 132 |
| Parts (a) | | |
| Other machinery | | |
| Complete | 236 | 562 |
| Parts (a) | | |
| Refrigerating machinery | | |
| Complete | - | 212 |
| Parts (a) | | |
| Space heating, ventilating and air-conditioning equipment | | |
| Hot air, water and steam radiators, other than those for use with gas or electricity | | |
| Complete | - | 7 |
| Parts (a) | | |
| Ventilators, hoods, booths, cowls, ducting and similar sheet metal work | 255 | 374 |
| Other equipment | | |
| Complete | 962 | 3,566 |
| Parts (a) | 203 | 179 |

TABLE 6 (contd.)

| | 1954 | 1958 |
|---|-------|-------|
| | Value | Value |
| | £'000 | £'000 |
| Mechanical Engineering (contd.) | | |
| Miscellaneous (non-electrical) machinery (contd.) | | |
| Pumps | | |
| Complete | 1,011 | 697 |
| Parts (a) | | |
| Industrial valves and cocks for the control of liquids, steam and gases, excluding valves for internal combustion engines | | |
| Wholly or mainly of steel | 394 | 282 |
| Other | 10 | 129 |
| Air and gas compressors and exhausters | | |
| Complete | 690 | 584 |
| Parts (a) | | |
| Other pneumatic appliances | | |
| Complete | 93 | 100 |
| Parts (a) | | |
| Brick, tile and cement block making machinery, other than kilns | | |
| Complete | 21 | 77 |
| Parts (a) | 36 | 80 |
| Cement making machinery, other than kilns | | |
| Complete | 269 | 46 |
| Parts (a) | | |
| Drying machinery, not elsewhere specified | | |
| Complete | 47 | 362 |
| Parts (a) | 27 | 53 |
| Food and drink preparation, processing and sterilising machinery | | |
| Cocoa preparation, chocolate and sugar confectionery | | |
| Complete | 38 | 101 |
| Parts (a) | | |
| Mineral water | | |
| Complete | 7 | 22 |
| Parts (a) | | |
| Brewing and distilling | | |
| Complete | 206 | 153 |
| Parts (a) | | |
| Other | | |
| Complete | 644 | 637 |
| Parts (a) | 229 | 23 |

TABLE 6 (contd.)

| | 1954 | 1958 |
|---|-------|-------|
| | Value | Value |
| | £'000 | £'000 |
| Mechanical Engineering (contd.) | | |
| Miscellaneous (non-electrical) machinery (contd.) | | |
| Plastics working machinery, other than presses | | |
| Complete | 13 | 199 |
| Parts (a) | 6 | 43 |
| Pulverising machinery and plant, other than crushing machinery for quarry products | | |
| Complete | 486 | 604 |
| Parts (a) | | |
| Rubber working machinery | | |
| Complete | 14 | 37 |
| Parts (a) | | |
| Steel and non-ferrous metal rolling mills machinery and plant | | |
| Complete | 137 | 287 |
| Parts (a) | | |
| Ordnance and small arms | | |
| Armoured fighting vehicles, including all tracked vehicles, chassis and parts thereof | 228 | 46 |
| Other naval, military and air force stores | 1,458 | 769 |
| General mechanical engineering | | |
| Parts sold other than in association with the sale of complete machines | | |
| For metal working machine tools | 65 | 44 |
| For textile machinery | 28 | 65 |
| For contractors' plant and quarrying machinery | | |
| Crushing, washing and screening machinery for quarry products | 28 | 32 |
| Other | 100 | 232 |
| For mechanical handling equipment | | |
| Conveyors and elevators, other than hay and corn elevators | 23 | 609 |
| Cranes and bridge transporters | 33 | 497 |
| Other | 38 | 238 |
| For miscellaneous (non-electrical) machinery | | |
| Mining machinery | 252 | 264 |
| Space heating, ventilating and air-conditioning equipment | 16 | 215 |
| Pumps, valves and compressors | 53 | 310 |
| Food and drink preparation, processing and sterilising machinery | 82 | 195 |
| Other | 116 | 1,445 |

TABLE 6 (contd.)

| | 1954 | 1958 |
|---|----------------|----------------|
| | Value £'000 | Value £'000 |
| Mechanical Engineering (contd.) | | |
| General mechanical engineering (contd.) | | |
| Parts sold other than in association with the sale of complete machines (contd.) | | |
| For industrial plant | | |
| Boiler and boiler-house plant | 31 | 808 |
| Other | 46 | 3,256 |
| For other machinery | 262 | 851 |
| Other and unclassified mechanical engineering | 5,450 | 7,185 |
| Other industries | | |
| Iron and steel (general); and steel tubes | 869 | 1,211 |
| Iron castings | 1,129 | 1,618 |
| Non-ferrous metals | 31 | 78 |
| Electrical engineering | 233 | 935 |
| Shipbuilding and marine engineering | 4,768 | 5,809 |
| Motor vehicles and motor cycles, etc. manufacturing | 176 | 1,290 |
| Locomotives and railway track equipment; and railway carriages, wagons and trams | 2,305 | 3,963 |
| Miscellaneous metal manufacture | | |
| Metal furniture | 174 | 308 |
| Door and window frames, and casements of metal | 453 | 256 |
| Stampings and pressings | 331 | 248 |
| Forgings of non-alloy steel | 102 | 60 |
| Vats, tanks and cisterns | 641 | 170 |
| Fencing material of iron and steel, other than of wire | 144 | 180 |
| Other | 694 | 1,068 |
| Other products | 1,773 | 895 |
| Total goods sold | 38,117 | 56,238 |
| Work done | | |
| Structural work carried out for building contractors | | |
| As main or direct contractors and specialist work | 8,818 | 8,480 |
| As sub-contractors | 3,075 | 9,351 |
| (Less) estimated value of goods made and used in the contract work | 8,136 | 10,022 |
| Total work done exclusive of goods made and used in the contract work | 3,757 | 7,809 |
| Erection and installation of air-conditioning, heating and ventilating plant | 401 | 2,113 |
| Repair and jobbing work (b) | 4,218 | 6,239 |
| Other work done on commission | 1,272 | 1,713 |
| Total value of goods sold without being subjected to any manufacturing process (merchanted or factored) | .. | 13,555 |
| Canteen takings | .. | 598 |
| Total | .. | 88,265 |

(a) Parts sold in association with the sale of complete machines.

(b) Exclusive of the value of goods used by firms and recorded as their output.

TABLE 7 - Total make of intermediate products, 1958

This table is not applicable to the industry.

Employment and salaries, etc. for the week ended October 25, 1958

TABLE 8 Firms employing 25 or more persons: United Kingdom

| | Males | Females | Total |
|---|---------|---------|---------|
| | Number | Number | Number |
| Working proprietors | 27 | - | 27 |
| Operatives | 87,675 | 3,377 | 91,052 |
| Administrative, technical and clerical employees | 31,066 | 10,394 | 41,460 |
| Total employees | 118,741 | 13,771 | 132,512 |
| Average salaries, etc. paid per head for the week to administrative, technical and clerical employees | £ 17.1 | £ 7.1 | £ 14.6 |

Sales of all parts of industrial plant by larger firms, including sales by establishments classified to other industries

TABLE 9 Firms employing 25 or more persons: United Kingdom

| (i) Parts sold in association with the sale of complete machines characteristic of this industry (a) | 1954 | | 1958 | |
|--|-------|-------|-------|-------|
| | (i) | (ii) | (i) | (ii) |
| (ii) Other parts sold (b) | £'000 | £'000 | £'000 | £'000 |
| For condensers, steam, other than for turbines and marine use | 67 | (c) | 46 | - |
| For boilers and boiler-house plant, other than boilers for ships and locomotives, burners and furnaces | | | | |
| Boilers | | | | |
| Water tube | 1,082 | 118 | 2,411 | 761 |
| Other boilers, including sectional boilers for steam, and locomotive type boilers for stationary purposes, but excluding sectional boilers for central heating | 525 | 39 | 797 | |
| Boiler and boiler-house plant, sold separately | | | | |
| Fuel economisers, feed water heaters and steam superheaters | 550 | 6 | 407 | - |
| Boiler firing plant | | | | |
| Mechanical stokers | 1,284 | 45 | 967 | 38 |
| Other boiler firing plant | 308 | 10 | - | 5 |
| Other boiler-house plant | 1,442 | 541 | 663 | 186 |
| For furnaces and kilns | | | | |
| Boiler furnaces | 89 | 291 | 17 | 40 |
| Blast furnaces | 1,044 | | 1,194 | 2,098 |
| Other metallurgical furnaces | 565 | | 598 | |
| Electric | 315 | 91 | 633 | 71 |
| Gas | 165 | 34 | 144 | 40 |
| Oil | 36 | 153 | 76 | |
| Other descriptions | 424 | | 244 | 308 |
| For chemical making machinery and plant, not elsewhere specified | | | | |
| Mineral oil refining | 179 | 34 | 891 | 2,680 |
| Oil (other than mineral) extraction and refining | 236 | 135 | 243 | |
| Paint, varnish and ink making | 100 | | 170 | 10 |
| Soap and fatty acid making | 43 | | 18 | 3 |
| Other and unclassified chemical machinery and plant | 2,561 | 129 | 2,265 | 655 |

continued on opposite page

TABLE 9 (contd.)

| (i) Parts sold in association with the sale of complete machines characteristic of this industry (a) | 1954 | | 1958 | |
|--|--------|-------|--------|-------|
| | (i) | (ii) | (i) | (ii) |
| (ii) Other parts sold (b) | £'000 | £'000 | £'000 | £'000 |
| For gas-works plant, not elsewhere specified | | | | |
| Coal carbonising plant | 824 | 118 | 878 | 690 |
| Water-gas, producer gas and complete gasification plant | 154 | | 1,014 | 340 |
| Other, including by-products plant | 1,965 | 113 | 824 | 131 |
| For grain processing machinery and plant | 611 | 12 | 744 | 159 |
| For refuse disposal machinery | 204 | 21 | 136 | - |
| For sewage disposal machinery | | | 164 | 25 |
| For water treatment plant, other than plant for waterworks | 307 | 24 | 1,053 | 22 |
| For waterworks equipment and plant | 248 | | 105 | 58 |
| For other machinery and plant | 1,676 | 706 | 2,088 | 218 |
| Total | 17,005 | 2,621 | 18,792 | 8,537 |

(a) Principal products of this industry.

(b) Principal products of General Mechanical Engineering.

(c) Owing to the risk of disclosure of information relating to individual enterprises separate details cannot be given and have been included with 'Other machinery and plant'.

LIST OF INDUSTRY REPORTS, ETC.

Part

- 1 Introductory Notes
- 2 Coal Mining
- 3 Stone and Slate Quarrying and Mining
- 4 Chalk, Clay, Sand and Gravel Extraction
- 5 Metalliferous Mining and Quarrying
- 6 Salt and Miscellaneous Non-metalliferous Mining and Quarrying
- 7 Grain Milling
- 8 Bread and Flour Confectionery
- 9 Biscuits
- 10 Bacon Curing, Meat and Fish Products
- 11 Milk Products
- 12 Sugar
- 13 Cocoa, Chocolate and Sugar Confectionery
- 14 Fruit and Vegetable Products
- 15 Animal and Poultry Foods
- 16 Margarine
- 17 Starch and Miscellaneous Food Industries
- 18 Brewing and Malting
- 19 Spirit Distilling and Compounding
- 20 Soft Drinks, British Wines, Cider and Perry
- 21 Tobacco
- 22 Coke Ovens and Manufactured Fuel
- 23 Mineral Oil Refining
- 24 Lubricating Oils and Greases
- 25 Dyestuffs
- 26 Fertilizers, and Chemicals for Pest Control
- 27 Coal-tar Products
- 28 Chemicals (General)
- 29 Pharmaceutical Preparations
- 30 Toilet Preparations
- 31 Explosives and Fireworks
- 32 Paint and Printing Ink
- 33 Vegetable and Animal Oils and Fats
- 34 Soap, Detergents, Candles and Glycerine
- 35 Synthetic Resins and Plastics Materials
- 36 Polishers
- 37 Gelatine, Adhesives, etc.
- 38 Iron and Steel (General)
- 39 Steel Tubes
- 40 Iron Castings, etc.
- 41 Non-ferrous Metals
- 42 Agricultural Machinery (except Tractors)
- 43 Metal-working Machine Tools
- 44 Engineers' Small Tools and Gauges
- 45 Industrial Engines
- 46 Textile Machinery and Accessories
- 47 Contractors' Plant and Quarrying Machinery
- 48 Mechanical Handling Equipment
- 49 Office Machinery
- 50 Miscellaneous (Non-electrical) Machinery
- 51 Industrial Plant and Steelwork
- 52 Ordnance and Small Arms
- 53 General Mechanical Engineering
- 54 Scientific, Surgical and Photographic Instruments, etc.
- 55 Watches and Clocks
- 56 Electrical Machinery
- 57 Insulated Wires and Cables
- 58 Telegraph and Telephone Apparatus
- 59 Radio and Other Electronic Apparatus
- 60 Domestic Electrical Appliances
- 61 Miscellaneous Electrical Goods
- 62 Shipbuilding and Marine Engineering
- 63 Motor Vehicle Manufacturing
- 64 Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing
- 65 Aircraft Manufacturing and Repairing
- 66 Locomotives and Railway Track Equipment
- 67 Railway Carriages and Wagons and Trams
- 68 Perambulators, Hand-trucks, etc.
- 69 Tools and Implements

Part

- 70 Cutlery
- 71 Bolts, Nuts, Screws, Rivets, etc.
- 72 Wire and Wire Manufactures
- 73 Cans and Metal Boxes
- 74 Jewellery, Plate and Refining of Precious Metals
- 75 Miscellaneous Metal Manufactures
- 76 Production of Man-made Fibres
- 77 Spinning and Doubling of Cotton, Flax and Man-made Fibres
- 78 Weaving of Cotton, Linen and Man-made Fibres
- 79 Woollen and Worsted
- 80 Jute
- 81 Rope, Twine and Net
- 82 Hosiery and Other Knitted Goods
- 83 Lace
- 84 Carpets
- 85 Narrow Fabrics
- 86 Household Textiles and Handkerchiefs
- 87 Canvas Goods and Sacks
- 88 Textile Finishing
- 89 Asbestos
- 90 Miscellaneous Textile Industries
- 91 Textile Converting
- 92 Leather (Tanning and Dressing) and Fellmongery
- 93 Leather Goods
- 94 Fur
- 95 Weatherproof Outerwear
- 96 Men's and Boys' Tailored Outerwear
- 97 Women's and Girls' Tailored Outerwear
- 98 Overalls and Men's Shirts, Underwear, etc.
- 99 Dresses, Lingerie, Infants' Wear, etc.
- 100 Hats, Caps and Millinery
- 101 Corsets and Miscellaneous Dress Industries
- 102 Gloves
- 103 Footwear
- 104 Bricks, Fireclay and Refractory Goods
- 105 Pottery
- 106 Glass
- 107 Cement
- 108 Abrasives
- 109 Miscellaneous Building Materials, etc.
- 110 Timber
- 111 Furniture and Upholstery
- 112 Bedding, etc.
- 113 Shop and Office Fitting
- 114 Wooden Containers and Baskets
- 115 Miscellaneous Wood and Cork Manufactures
- 116 Paper and Board
- 117 Cardboard Boxes, Cartons and Fibre-board Packing Cases
- 118 Miscellaneous Manufactures of Paper and Board
- 119 Printing and Publishing of Newspapers and Periodicals
- 120 General Printing, Publishing, Bookbinding, Engraving, etc.
- 121 Rubber
- 122 Linoleum, Leathercloth, etc.
- 123 Brushes and Brooms
- 124 Toys, Games and Sports Equipment
- 125 Miscellaneous Stationers' Goods
- 126 Plastics Moulding and Fabricating
- 127 Miscellaneous Manufacturing Industries
- 128 Construction
- 129 Gas
- 130 Electricity
- 131 Water Supply
- 132 Index of Products
- 133 Summary Volume
- 134 Summary Volume
- 135 Summary Volume

CENSUS OF PRODUCTION REPORTS FOR OTHER RECENT YEARS

The census reports for earlier years include some items which are not included in the Report on the Census of Production for 1958. The most recent reports are listed below, with an indication of any important items they contain which do not appear in the 1958 Reports. The data in all these earlier reports is analysed in accordance with the original (1948) edition of the Standard Industrial Classification.

Census of Production for 1951: Summary Tables, Part I (H.M.S.O., 1956. Price 6s. net).

No important items which do not appear in the 1958 Reports.

Census of Production for 1951: Summary Tables, Part II (H.M.S.O., 1956. Price 6s. net).

Channels of sales, 1948

Payments for services, 1948

Shift working, 1951

Power equipment, 1951

Prime movers, 1951

Analysis of periods covered by census returns, 1948 and 1951.

The Report on the Censuses of Production for 1952 and 1953. Introductory Notes and 5 volumes. (These volumes are now out of print.)

No important items which do not appear in the 1958 Reports.

The Report on the Census of Production for 1954. Introductory Notes, Index of Products, and 154 booklets relating to individual industries (H.M.S.O., 1956-59. Prices vary, usually from 1s. 6d. to 2s. net for each booklet).

Detailed information about materials and fuel purchased.

Census of Production for 1954: Summary Tables, Part I (H.M.S.O., 1958. Price 9s. net).

Fuel purchased

Gas produced in certain industries

Electricity generated, purchased and sold

Materials purchased: iron and steel; non-ferrous metals; paint; plastics materials; cotton and rayon, nylon, etc. textiles; timber; packing materials; replacement parts for plant etc. (Information about purchases of other materials is given in The Report on the Census of Production for 1954.)

Census of Production for 1954: Summary Tables, Part II (H.M.S.O., 1959. Price 7s. net).

Regional analyses of gross output, net output and capital expenditure.

Census of Production for 1954: Summary Tables, Part III (H.M.S.O., 1959. Price 8s. net).

Sales of particular products by certain industries in Scotland and Wales.

The Report on the Censuses of Production for 1955, 1956 and 1957. Introductory Notes and 5 volumes (H.M.S.O., 1959. Prices 1s. 6d. to 3s. 6d. net according to size of volume).

No important items which do not appear in the 1958 Reports.

© *Crown copyright* 1961

Printed and published by
HER MAJESTY'S STATIONERY OFFICE

To be purchased from
York House, Kingsway, London w.c.2
423 Oxford Street, London w.1
13A Castle Street, Edinburgh 2
109 St. Mary Street, Cardiff
39 King Street, Manchester 2
50 Fairfax Street, Bristol 1
2 Edmund Street, Birmingham 3
80 Chichester Street, Belfast 1
or through any bookseller

Printed in England