

BOARD OF TRADE

# THE REPORT ON THE <br> CENSUS OF PRODUCTION FOR 1958 

Part 23<br>MINERAL OIL REFINING



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)

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)
terks used in the census reports

CAPITAL EXPENDITURE
The expenditure on new building work shown excludes the cost of 1 and 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. It includes expenditure in respect of establishments in Great Britain where
production had not started before the end of the year.
EMPLOYMENT
Employees are classified under the two main headings of (i) administrative, technical and clerical employees and (ii) operatives. The figures relate to persons on the pay-roll (i.e. employers) what Insurance cards were held by employees. The figures for this industry exclude persons engaged in merchanting or factoring, and canteen workers.
Administrative, technical and clerical employees include, managers, superintendents, and works foremen; research, experimental, develop-
ment, 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 eamers. They include those employed in and
about the factory or works; operatives employed in power houses or works; operatives employed houses; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting etc. are also included.
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 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 whan the corresponding number of establishments to the extent that combined returns were made covering more than one of the establishments
concerned.

Establishment
In most
In most cases an establishment comprises the (76466)
management at a particular address (e.g. a refinery or plant). Offices, warehouses,
laboratories and other ancillary places of Iaboratories and other ancillary places of
business at a separate address from the works business at a separate address from th
were treated as part of the establi shment.
intermediate products
Figures are given showing the total quantities made during the year of important intermediate products, i.e. products which may be they are produced, whether or not they are al so 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 used in production, and of fuel (including oil, gas and electricity) for all purposes including heating, firms' own staff included in the return); all packing materials, including the full cost of
returnable cases and containers when first returnablecases and containers when first purchased; workshop materials; office materials;
water charges; materials for repairs to own buildings, plant and vehicles when carried out by their own workpeople included in the return; consumable tools; and parts for machinery purchased during the year as replace-
ments. Materials supplied by customers for processing are excluded.
The values shown include any duty paid (less ebate, etc.) but exclude trade discounts allowed. The cost of indigenous crude and shale payments to transport firms. Materials purchased overseas were entered at their c.i.f. cost plus 1 anding charges and the cost of transport from the docks (unless landed and/or transported by firms' own employees

## NET output

The net output of an industry represents the production; it constitutes the fund from which wages, salaries, rents, rates and taxes, wich tising and other selling expenses, and all other similar charges have to be met, as well as ciable duplication appreiable duplication in net output.

Net output was obtained by taking the total value of sales and work done; adding the value of stocks of products on hand for sale and work
in progress at the end of the year and deducting in progress at the end of the year and deducting their value at the beginning of the year; and
deducting also the cost of purchased materials and fuel used, payments for work given out to the net firms, and payments for outwards transport. The net amount of duty paid was deducted.
sales
Sales include goods made by the business covered by the return and those made for it by other firms from materials given out to
them. Any machinery or other capital items produced for use in the business copital items return are also included, the value being that adopted in the firm's capital account
for income tax purposes. Goods sold wi thout foring subjectax purposes. Goods sold wi thout (merchanted or factored) and canturing process (merchant
excluded.

The value shown for sales is the net selling value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, 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 commission or for the trade, the value shown is
the net amount charged. Wi th 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 reported were the income tax values of stocks of products on hand for sale, work in progress, and stocks of materials and fuel, at the beginning and end of the year of return.

## SYMBOLS USED

The following symbols are used throughout
for not available
for nil or negligible (less than half the final digit shown)
transport payments
These represent the total amount paid or credited during the year for outwards transport of finished goods sold. 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 trat by the
services provided by the business covered by eturn. The $i$ tems included a payments fo outwards carriage by all forms of inland transport, that is railways, road haulage, canals, coast-wise shipping, air, etc. Payments made fo
ea freight on goods sold to customers overseas and on materials and fuel purchased from oversea suppliers are excluded.
wages and salaries
These are the amounts paid during the year to operatives and to administrative, technical and clerical employees. The values shown include all overtime payments, bonuses and commissions, ine ther paid regularly or not, and no deduction
is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, ravelling expenses, lodging allowances, etc. is excluded.

Figures are also shown for average salaries etc. paid per head for the week ended 25 th
October, 1958. For staff paid monthly, the iguber, 1958. For staff paid monthly, the igures are based on payments made in October than a week or month, an appropriate proportion 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
 supplied to them, and also by fi ms' own estab ishments for which separate returns were made They do not include payments for business and other services.
rounding of figures
The figures in the tables have, where necessary, been rounded to the nearest fina 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 23. MINERAL OIL REFINING

This report on the Mineral Oil Refining Industry relates to establishments engaged wholl $y_{Y}$ or mainly in the refining of petroleum or shale oil, and production of medicinal paraff in, paraff in wax, petroleum jelly, etc

This industry corresponds to minimum list heading 262 of the new edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census. The definition of this industry is unchanged from the last detailed Census of Production, for 1954, in which it was reported on as Industry N in Volume 2

Sales are generally valued at open market prices f.o.b. in the Guif of Mexico plus current rates of freight and insurance to the United Kingdom, and purchases of feedstock are valued at open market prices f.o.b. at the port of The size of the net output is largly

The figures have been compiled from returns made to the Ministry of Power

There were no establishments in Northern Ireland in the register for this industry.

| Table No. <br> 1 | Industry sumnary: United Kingdom | Page |
| :---: | :--- | :---: |
| 2 | Analysis by sub-divisions of the industry | $23 / 3$ |


|  | Unit | 1954 | 1958 |
| :---: | :---: | :---: | :---: |
| Number of enterprises | No. | 9 | 9 |
| Number of establishments | . | 18 | 18 |
| Sales of goods produced and work done | £.000 | 301, 403 | 383.711 |
| Cost of purchased materials and fuel used (a) | - | 264.556 | 344,934 |
| Payments for work done on materials given out | . | 264. 556 | 344,934 |
| \{ change during year | $\cdots$ | + 1.927 | - 2.328 |
| end of year | $\cdots$ | 12,120 | 24,708 |
| f change during year | $\cdots$ | + 1.296 | + 1.662 |
| at end of year | $\cdots$ | 6.718 | 13.151 |
| Stocke of materials and fuel $\quad$ change during year | $\cdots$ | + 142 | - 3 |
| at end of year | $\cdots$ | 16.344 | 26.489 |
| Payments for outwards transport | $\cdots$ | 348 | 542 |
| Custome and Excise duties | " | 2.684 | 2. 428 |
| Net output | " | 37.038 | 35.141 |
| ${ }^{\text {operatives }}$ | No. | 12,274 | 14,308 |
| Average number employed $\quad\left\{\begin{array}{l}\text { administrative, technical and } \\ \text { clerical employees }\end{array}\right.$ | $\cdots$ | 4.078 | 5. 242 |
| total | " | 16,352 | 19,550 |
| Net output per person employed | $\varepsilon$ | 2. 265 | 1.798 |
| of operatives | £. 000 | 6.557 | 10.024 |
|  | . | 2. 587 | 4.716 |
| operatives | $\varepsilon$ | 534 | 701 |
| Wages and salaries per head $\quad\left\{\begin{array}{l}\text { administrative, technical and } \\ \text { clerical employees }\end{array}\right.$ | " | 634 | 900 |
| Capital expenditure |  |  |  |
| New building work (b) | £. 000 | 2.811 | 6.099 |
| Plant and machinery $\quad\left\{\begin{array}{l}\text { acquisitions (b) }\end{array}\right.$ | . | 13.119 | 33,479 |
| \{disposals | .. | 266 | 124 |
| Vehicles $\quad\left\{\begin{array}{l}\text { acquisitions (b) }\end{array}\right.$ | ". | 91 | 335 |
| disposals | " | 13 | 24 |

(a) Including $£ 110,000$ and $£ 79.000$ in 1954 and 1958 respectively for carriage of goods inwards.
(b) Including expenditure in Great Britain for establishents not yet in production.

TABLE 2 - Analysis by sub-divisions of the industry, 1958 No sub-divisions of this industry were distinguished.

TABLE 3 - Analysis by size of enterprise within the industry, 1958
Owing to the risk of disclosure of information relating to individual
firms, an analysis by size of enterprise cannot be given.

Sales of principal products of the industry (a)
TABLE 4 All firms in the industry: United Kingor
or spirit
ndustrial and white spirits
Kerosine
Gas/diesel oils (other than marine diesel oil)
Marine diesel oi
lel oil
ubricating oil (all grades) (b)
itumen and bituminous products
Other fini shed petroleum products and amount
charged for commi ssion refining
Unfinished materials sent to other refineries other saleable output
ork done (c)

| 1954 |  | 1958 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Quantity | Value | Quantity | Value | Enter- <br> prises | Entries |
| Th. tons | £'000 | Th.tons | £.000 | Number | Number |
| 7.307 | 115.724 | 7.529 | 117.946 | 7 | 15 |
| 272 | 4.982 | 247 | 4.751 | 6 | 9 |
| 741 | 10.242 | 1.256 | 17.731 | 5 | 11 |
| 3,335 | 40.758 | 5.387 | 65,987 | 7 | 13 |
| 1.048 | 10.589 | 1.262 | 13.135 | 6 | 12 |
| 12. 264 | 77.091 | 13.314 | 94.711 | 8 | 15 |
| 510 | 10.772 | 793 | 19,152 | 8 | 11 |
| 822 | 8.001 | 873 | 9.249 | 6 | 9 |
| .. | 8.014 | .. | 23,579 | 8 | 13 |
| 855 | 8.114 | 1.008 | 9.939 | .. | .. |
| .. | 203 | .. | 652 | . | .. |
|  | 4,872 |  | 2.895 | .. | .. |
|  | 299, 362 |  | 379.727 | 9 | 18 |

(a) The selling values shown in the table are inclusive of duty if the products are sold duty paid, and $\begin{gathered}\text { exclusive of duty if the proncts are sold in bond or dexported. The total amount of duty included in the } \\ \text { solling value is to }\end{gathered}$


Including capital work in refineries carried out by the firms. own employees. which is valued at cost of
labour and materials. For other work done, the value included is the amount charged.

TABLE 5 - Sales of principal products of the industry by establishments classified to other industries
Owing to the risk of di sclosure of information relating to individual firms. sales of these
products by establishments classified to other industries cannot be given for 1988 .

TABLE 6 - Sales in the industry of other than principal products All firms in the industry: United Kingdom


|  | Heturned in this industry |  |  |
| :---: | :---: | :---: | :---: |
|  | Quantity | Enterprises | Entries |
|  | Th.tons | Number | Number |
| Aviation and motor spirits | 6.554 | 7 | 15 |
| Industrial and white spirits | 252 | 6 | 9 |
| Kerosine | 1.274 | 5 | 11 |
| Gas/diesel oils (including marine diesel oil) | 6.124 | 8 | 16 |
| Fuel oil | 13.839 | 8 | 15 |
| Lubricating oils (all grades) | 751 | 8 | 11 |
| Bi tumen and bituminous products | 864 | 6 | 9 |

(a) Including oil used in refineries. There is duplication of output in this table to the extent
that production which takes place in stages in more than one refinery is included at each
stage.

|  | Males | Fenales | Total |
| :---: | :---: | :---: | :---: |
|  | Number | Number | Number |
| Operatives | 14, 124 | 216 | 14,340 |
| Administrative, technical and clerical employees | 4. 365 | 944 | 5.309 |
| Total employees (a) | 18.489 | 1.160 | 19.649 |
|  | $\varepsilon$ | $\varepsilon$ | $\varepsilon$ |
| Average salaries, etc. paid per head for the week to administrative, technical and clerical employees | 19 | 9 | 17 | (a) The following persons, not included above, were also employed in this industry:-

Canteen workers
Males 122 Females 559 Canteen workers
Other excluded employees


| Part | Part |
| :---: | :---: |
| Introductory Notes | 70 Cutlery |
| Coal Mining | 71 Bolts, Nuts, Screws, Rivets. |
| 3 Stone and Slate Quar rying and Min |  |
| ${ }_{5}$ Metaliliferous Mining and Quarrying | 74 Jerellery. Plate and Refining of Precious |
| Salt and Miscellaneous Non-metalliferous | 75 Metals |
| Mining and Q | 75 Miscellaneous Metal Nanufactures |
| rain Milling |  |
| ${ }_{\text {che }}^{\text {Bread and }}$ Biscuits | Spinning and Doubling of Cotton, Flax and |
| 10 Bacon Curing, Meat and Fish Products | 78 Weaving of Cotton, Linen and Man-made Fib |
| 11 Milk Products | 79 Woollen and Worsted |
| 12 Sugar | 80 Jute |
| ${ }^{13}$ Cocoa. Chocolate and Sugar Confecti | 81 hope. Twine and Ne |
| 14 Fruit and Vegetable Products | 82 Hosiery and Other Knitted Good |
| 15 Animal and Poultry Foods | Lace |
| 16 Margarine | Carpets |
| 17 Starch and Miscellaneous | Narrow Fabri |
| 18 Brewing and Malting | Household Textiles and Handkerchie |
| 19 Spirit Distilling and Co | Canvas Goods and Sact |
| 20 Soft Drinks, British Win | Textile Finish |
| 21 Tobacco | Asbestos |
| ${ }_{23}^{22}$ Coke Ovens and Manu factured Fuel | Miscellaneous Texti |
| ${ }^{23}$ Mineral Oil Refining | Textile Converting |
| $24.10 L^{24}$ | Leather (Tanning and Dressing) |
| ${ }_{26}$ Fertilizers, and Chemicals for Pest Control | Leather Goods |
| 27 Coal-tar Products | 94 Fur |
| 28 Chenicals (General) | 95 Wea therproof Ou terwe |
| ${ }^{29}$ Pharmaceutical Preparatio |  |
| ${ }^{30}$ Toilet Preparations | 97 Omen s and Gris latiore |
| ${ }^{31}$ Explosives and Firemorks | veralis and Men s ${ }^{\text {a }}$ S |
| ${ }_{33}{ }^{\text {32 }}$ Paint and Printing Ink | 900 Hats. Caps and Milliner |
|  | 101 Corsets and Miscellaneous D |
| 35 Synthetic Resins and Plastics Materials | 102 Gloves |
| ${ }_{36}{ }^{\text {Pr Polishes }}$ |  |
| ${ }^{3} 7$ Gelatine. Adhesives. etc. | 104 Bricks. Fireclay and |
| ${ }^{38}$ Iron and Steel (General) | 105 potte |
| ${ }^{39}$ Steel Tubes | 106 class |
| ${ }^{40}$ Iron Castings. etc. | 107 Cement |
| ${ }_{42}{ }^{\text {A A Mricultural Nachinery (except Tractors) }}$ | 109 Miscellaneous Building Nateria |
| 43 Metal-working Machine To | 110 Timber |
| 44 Engineers ${ }^{\text {a }}$ Small Tools and Ga | 111 Furniture and Upho |
| 45 Industrial Engines | 112 Bedining. etc |
| 46 Textile Machinery and Accessories | 113 Shop and Office |
| ${ }_{48}^{47}$ Cochantractors ical Hand ling and Equi iment | ${ }^{115}$ Niscellaneous wood and Cork Manu factures |
| 49 Office Machinery | 116 Paper and Board |
| 50 Miscellaneous (Non-electrical) Machinery | 117 Cardboard Boxes, Cartons and Fibre-board |
| 51 Industrial Plant | Packing Case |
| ${ }_{52} 52$ Ordnance and Small 11 mms | 118 Miscellaneous Manu |
| 53 General Mechanical Engineeri | 119 Printing and Publis |
| S4 Scientific. Surgical and Photographic Instruments. etc. | 120 General Printinting. Publishing, Bookbinding. |
| 55 Watches and Clocks | Engraving. |
| lectrical Mach in | 121 Hubber |
| 57 Insulated Wires and Cables | 122 Linoleum, Leatherc |
| 58 Telegraph and Telephone Appar | 123 Brushes and Brooms |
| 59 Radio and Other Electronic Apparat | 124 Toys. Games and Sports Equipment |
| 60 Domestic Electrical Appliances | 126 Miscellaneous Stationers Goods |
| ${ }_{62} 61$ Shiscellaneous Eliectrical Goods | 127 Miscellaneous Manufacturing Industries |
| 62 Shipbuilding and Marine Engineeri | 127 Miscellaneous Manufacturing industries |
| ${ }_{64} 63$ Motor Vehicle Manu facturing |  |
| 64 Motor Cycle. Three-wheel Vehicle and Pedal | 129 Gas |
| 65 Aircraft Manu facturing and Repair | 131 water Supply |
| 66 Locomotives and Railmay Track Equipment | 132 Index of Products |
| 67 Railway Carriages and Wagons and Trams | 133 Summary Volume |
| 68 Perambu lators. Hand-trucks, etc. | 134 Summary Volume |
| 69 Tools and Implements | 135 Summary Volume | 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 Industria Classification.

Census of Production for 1951: Surmary Tables, Part I (H.M.S.O., 1955. Price 6s. net).
No important items which do not appear in the 1958 Reports.

Census of Production for 1951: Surmary Tables, Part II (H.M.S.O., 1956. Price 6s. net) Channels of sales, 1948
Payments for service
Shift working. 1951
Power equipment. 195
Prime movers, 191
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. Detailed in formation about materials and fu purchased.

Census of Production for 1954: Surmary 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; nonferrous metals; paint; plastics materials:
cotton and rayon, nylon, etc. textiles: timber cotton and rayon, nylon, etc. textiles: timber
packing materials: replacement parts for plamt packing materials: replacement parts for plat
etc. (In formation about purchases of other materials is given in The Report on the Censu 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 d capital expenditure

Census of Production for 1954: Surmary Tables,
Part III (H.M.S.O., 1959. Price 8s. net). Part III (H.M.S.O., 1959. Price 8s. net Siles of particalar products by certain

The Report on the Censuses of Production for 1955, 1956 and 1957. Int roductory Notes and 5 volumes (H.M. S.O., 1959. Prices 1 s . 6d.
3 s . 6 d . net according to size of volume). No. important items which do not appear in the 1958 Reports.

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