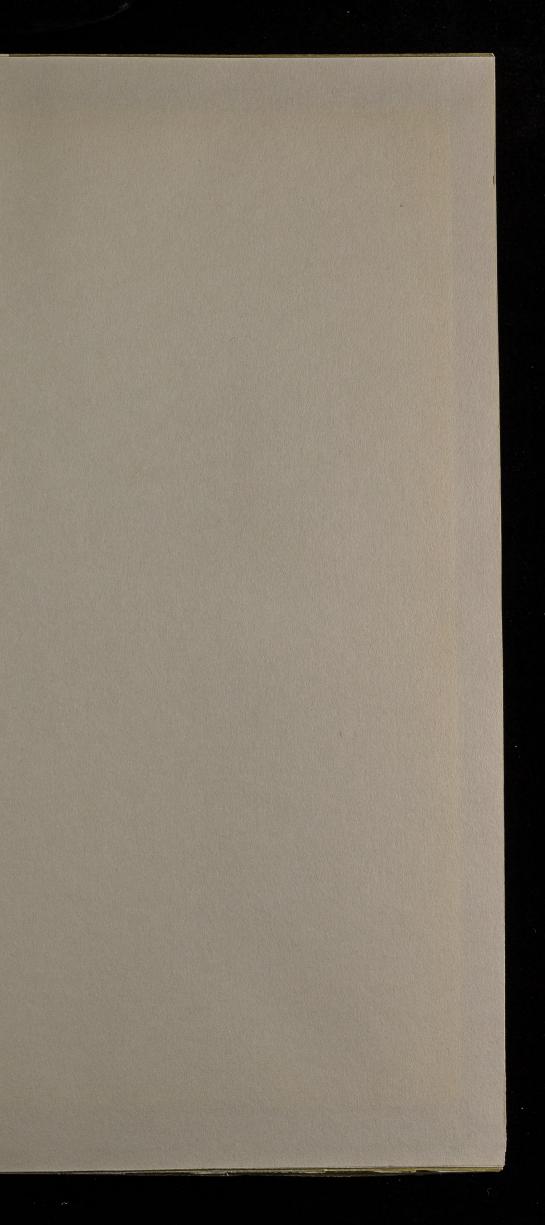




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PA341 TATISTICS DAA 251) BACK-UP 1972 **Report on the** BRITISH LIBRARY 15 JAN1976 CET SLIFICAL AND ECONOMIC SCIENCE **Department of Industry HMSO Business Statistics Office**

31716 **Business Monitor** A publication of the Government Statistical Service

Census of Production

Industrial (including process) plant and steelwork

PA341



Special Note for Purchasers

Commencing with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Business Monitor series. These Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or Q (quarterly) or M (monthly): and then by a number indicating the minimum list heading, or sub-division of a minimum list heading, of the Standard Industrial Classification (revised 1968).

The Census of Production (PA) reports are available on standing order (details on application to Her Majesty's Stationery Office, P.O. Box 569, London SE1 9NH. Telephone 01-928 6977), although they are not included in the global subscription arrangements for the Business Monitor series.

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Enquiries:

Business Statistics Office Cardiff Road Newport, Gwent NPT 1XG Newport 56111 (STD code 0633) ext 2455 Telex 497121/497122 Answer Back BSO Newport

Report on the 1972

Industrial (including process) plant and steelwork

Presented by the Secretary of State for Industry to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo.6 Cha.39 sec 7)

Department of Industry Business Statistics Office

Census of Production

London: Her Majesty's Stationery Office 1975

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| PA352 | Watches and clocks |
| PA353 | Surgical instruments and appliances |
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| PA361 | Electrical machinery |
| PA 362 | Insulated wires and cables |
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| PA364 PA365 | Gramophone records and tape recordings |
| TA305 | Broadcast receiving and sound reproducing |
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| PA367 | Radio, radar and electronic capital goods |
| PA368 | Electrical appliances primarily for domestic |
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Electric lamps, electric light fittings, wiring accessories etc

1968). The activities of the industry include:-

Manufacturing steam raising boilers of all types and accessories such as mechanical stokers, but not marine boilers and hot water boilers cast in sections; process plant and other industrial plant including lime and cement kilns, gas plant, sintering plant, metallurgical and other furnaces and other metal manufacturing plant (excluding rolling mills), de-greasing and coating plant, chemical, petrochemical and oil refining plant, nuclear reactors, water and sewage treatment plant; structural iron and steelwork for buildings and bridges (including similar work in other metals) and prefabricated buildings of steel and other metals; heavy iron and steelwork (including similar work in other metals) other than for structural uses, including storage tanks, spheres, process pressure vessels, heat exchangers, pipes, chimneys, bunkers, bins and hoppers. Parts of industrial (including process) plant and steelwork are included but industrial hollow-ware is not. Contractors responsible for the design, engineering, procurement, construction and commissioning of complete plants for process industries such as chemicals, petro-chemicals, oil refining and gas are included, (but firms and consulting engineers responsible for only some of these functions are excluded).

> In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page (iii).

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- 2 Capital expenditure and stocks, 1970, 1971 and 1972
- 3 Analysis of establishments by size, 1972
- 4 Regional distribution of employment, net capital expenditu
- 5 Percentage analysis of twelve-month periods covered by re establishments employing 25 or more persons, 1972
- 6 Percentage analysis of employees by full and part time em
 - Sales of principal products of the industry by establishme more persons, including sales by establishments classified industries, 1972

PA341 INDUSTRIAL (INCLUDING PROCESS) PLANT AND STEELWORK

The information in this report relates to establishments classified to the Industrial (including process) plant and steelwork industry, minimum list heading 341 in the Standard Industrial Classification (revised

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Input and output, 1970, 1971 and 1972

All United Kingdom establishments classified to the industry (a)

| | Unit | 1970 | 1971 | 1972 |
|--|-----------|-----------|---------------------|---------------|
| nterprises | Numbe r | 1,482 | 1,484 | 1,462 |
| stablishments | П | 1,618 | 1,695 | 1,622 |
| | 62000 | 888,892 | | . 989,922 |
| ales of goods produced and work done | £'000 | 7,550 | 1,006,967 | 14,776 |
| ervices rendered to other organisations (b) | 11 | 31,697 | 43,038 | 39,246 |
| oods merchanted or factored | Ш | 1,113 | 930 | 909 |
| anteen takings | 11 | 1,110 | I amilia a sangan i | a service and |
| Total sales and work done | П | 929,253 | 1,050,935 | 1,044,853 |
| and the second | | | and the state | |
| ncrease during the year, work in progress nd goods on hand for sale | · II | 81,649 | 82,559 | 83,812 |
| Gross output | Ш | 1,010,902 | 1,133,494 | 1,128,665 |
| | | | | |
| ost of purchases | IJ | 478,905 | 537,136 | 525,161 |
| ncrease during the year, stocks of aterials, stores and fuel | Ш | 8,755 | - 3,804 | - 582 |
| ayments to other organisations for work done on materials given out | | 91,324 | 73,587 | 61,106 |
| for transport by road | Ш | 7,890 | 8,425 | 7,895 |
| for transport by rail, water, air and Post Office parcel services | н | 1,885 | 2,219 | 1,463 |
| Total costs | Ш | 571,249 | 625,171 | 596,206 |
| Net output | | 439,654 | 508,323 | 532,459 |
| net output | | | 1 | |
| otal employment (including working roprietors) (c) | Thousands | 174.8 | 173.7 | 156.2 |
| | | 2,516 | 2,927 | 3,409 |

(a) For 1972, estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons, accounted for 26 per cent of the total figures in which they were incorporated: of this unsatisfactory returns accounted for 18 per cent.

(b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.

(c) Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment.

TABLE 2

PA341 2

Capital expenditure and stocks, 1970, 1971 and 1972

All United Kingdom establishments classified to the industry (a)

| | 1970 |
|---|----------|
| Capital expenditure (b) | |
| New building work | 4,329 |
| Land and existing buildings | B B |
| Acquisitions | 1,036 |
| Disposals | 1,270 |
| Plant and machinery | |
| Acquisitions | 13,005 |
| Disposals | 2,183 |
| Vehicles | |
| Acquisitions | 3,666 |
| Disposals | 1,418 |
| Total net capital expenditure (c) | 17,165 |
| | |
| | |
| Increase in stocks and work in progress, 1970, 1971 and 1972 and value of stocks | Increase |
| and work in progress at end of 1972 | |
| | |
| Materials, stores and fuel | 8,755 |
| Work in progress | 80,309 |
| Goods on hand for sale | 1,340 |
| Total | 90,404 |

(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.

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

(c) Acquisitions less disposals.

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PA341 3
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| | | £'000 |
|--|---------------------------------------|-------------------------|
| 1971 | 197 | 72 |
| 8 | | |
| 4,995 | 5,7 | 27 |
| and the second s | | |
| 2,052 | 2,1 | 19 |
| 2,612 | 9 | 07 |
| 140 | · · · · · · · · · · · · · · · · · · · | |
| 14,235 | 13,7 | '96 |
| 3,675 | 1,2 | 220 |
| | | |
| 4,341 | 4,4 | 129 |
| 1,668 | 1,5 | 583 |
| 17,668 | 22,3 | 360 |
| | | |
| Increase | Increase | Value at end of year |
| | | |
| | | |
| - 3,804 | - 582 | 50,678 |
| 82,585 | 82,607 | 710,089 |
| - 26 | 1,205 | 9,725 |
| 78,755 | 83,231 | 770,492 |

Analysis of establishments by size, 1972

industry (a) to the All United Kingdom establishments classified

| | بر • • | a kara | | Employees | yees | Wages and salaries | salaries | Wages and salaries per head | salaries 1ead | | | | Net | Capital | Total stocks and |
|----------------------------------|-----------------------|----------------------|--|--|----------------------|--------------------|---|--------------------------------|------------------|---|-----------------|---------------|-----------------------|----------------------------------|--|
| Size group (b) | lish- ments | Enter- prises (c) | Total employment (b) | Operatives | Others (d) | Operatives | Others (d) | Operatives | Others (d) | Total sales and work done (e) | Gross output | Net output | output per head | expen- diture (net) (f) | work in progress at end of year |
| | Number | Number | Number | Number | Number | £,000 | $f_{1}^{0}(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ | બ | બ | £,000 | £,000 | £,000 | સ | £,000 | £'000 |
| 1-10 | 459 | 458 | 3,510 | | int. | | | 2.72 | | 1.15 | | 30 | | | |
| 11-24 | 513 | 506 | 8,888 | .00 | | | | | | | | | | 1 | |
| 25-49 | 187 | 183 | 6,893 | 23,221 | α, 6 83 | 35,853 | 10,772 | 1,544 | 1,816 | 186,117 | 189,904 | 89,494 | 2,689 | 5,097 | 37,606 |
| 50-99 | 661 | 190 | 13,987 | | | | | | | | | | | (8) | |
| 100-199 | 126 | 120 | 16,655 | 11,746 | 4,852 | 19,291 | 9,282 | 1,642 | 1,913 | 110,153 | 109,396 | 51,332 | 3,082 | 2,817, | 19,392 |
| 200-299 | 42 | 40 | 10,552 | 7,206 | 3,337 | 11,516 | 6,132 | 1,598 | 1,838 | 63,754 | 63,684 | 29,790 | 2,823 | 2,234 | 16,518 |
| 300-749 | 58 | 51 | 27,997 | 16,588 | 11,405 | 27,524 | 21,978 | 1,659 | 1,927 | 207,082 | 207,857 | 94,436 | 3,373 | 4,248 | 75,921 |
| 750 and over | 38 | 28 | 67,724 | 39,131 | 28,593 | 77,734 | 58,846 | 1,987 | 2,058 | 477,747 | 557,824 | 267,407 | 3,948 | 7,964 | 621,055 |
| 1 | | | 14 mag Dens | | | | | | | | | | | barla | 171 B |
| | 100.3 | | | | | | | | | | | | | | 11 01 |
| | | | | | | | 1074 29 10 29 21 | | | | | | | 1 10722 | 41 |
| Total | 1,622 | 1,462 | 156,206 | 97,892 | 56,870 | 171,918 | 112,010 | 1,756 | 1,970 | 1,044,853 1,128,665 | 1,128,665 | 532,459 | 3,409 | 22,360 | 770,492 |
| (a) Including es and for ests | stimates ablishmen | for esta ts emplo | Including estimates for establishments not and for establishments employing less than | Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons. | at is factory 18. | returns | | (d) Adminis | strative, to | Administrative, technical and clerical employees. | clerical | employee | | 123333 | form we |

Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment. (q)

Some enterprises control establishments in more than one size group: the sum of the figures for the size groups will therefore exceed the total for the industry. (c)

Including sales of goods merchanted or factored, canteen takings and services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered).

(e)

disposals

less

Acquisitions

(J)

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| Area | | number red (a) | | apital iture (b) | establishme | Net output and employment in the region o establishments with more than 80 per cent their employment in the region (c) | | |
|---|-----------|-------------------------------------|-----------|-------------------------------------|----------------------------|--|--|--|
| | | | FORMACO | | Estimated net output | Average number employed as a percentage of total average number employed in the industry in the region | Net output as percentage of total of the industry in the United Kingdom | |
| A LINER ELINE DE LEZERE ALEN ELE DE LEZERE ALEN ARTES ALEN ET | Thousands | per cent of United Kingdom | £'000 | per cent of United Kingdom | £'000 | | Der Großen einen | |
| Standard regions of England | MARSE () | | COT TORAS | 1 XB | | | t only observed | |
| North | 21.0 | 13.4 | 3,330 | 14.8 | 58,889 | 69.8 | 11.1 | |
| Yorkshire and Humberside | 11.4 | 7.3 | 1,219 | 5.4 | 22,307 | 71.0 | 4.2 | |
| East Midlands | 9.9 | 6.4 | 1,073 | 4.8 | 19,656 | 70.5 | 3.7 | |
| East Anglia | 1.2 | 0.8 | 178 | 0.8 | 981 | 35.7 | 0.2 | |
| South East | 32.1 | 20.6 | 4,483 | 20.1 | 90,331 | 57.0 | 16.9 | |
| South West | 3.0 | 2.0 | 712 | 3.2 | 4,925 | 59.1 | 0.9 | |
| West Midlands | 27.7 | 17.7 | 3,275 | 14.7 | 45,201 | 63.5 | 8.5 | |
| North West | 22.5 | 14.4 | 2,896 | 13.0 | 51,088 | 71.3 | 9.6 | |
| England | 129.0 | 82.6 | 17,167 | 76.8 | 293,379 | 65.1 | 55.1 | |
| Wales | 5.3 | 3.4 | 1,080 | 4.8 | 10,550 | 58.8 | 2.0 | |
| Scotland | 21.0 | 13.4 | 3,912 | 17.5 | 29,190 | 51.2 | 5.5 | |
| Great Britain | 155.3 | 99.4 | 22,160 | 99.1 | 333,119 | 63.0 | 62.6 | |
| Northern Ireland | 0.9 | 0.6 | 200 | 0.9 | 1,783 | 81.1 | 0.3 | |
| Unallocated (d) | | L. Marry Hollow and | | ^ _ | 197,557 | a1 | 37.1 | |
| United Kingdom | 156.2 | 100.0 | 22,360 | 100.0 | 532,459 | | 100.0 | |

(a) Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment.

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

(c) Where a census return covered addresses in two or more regions an estimate was made of the net output attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate was made by assuming that net output at each address covered by a return was proportionate to employment at the address. The establishment's residual net output was included in unallocated net output.

(d) Includes estimates of net output for establishments not making satisfactory returns and establishments employing less than 25 employees, and unallocated net output of establishments covering addresses in two or more regions.

TABLE 4

Regional distribution of employment, net capital expenditure and net output, 1972 All United Kingdom establishments classified to the industry

Analysis of establishments by size, 1972

to the industry (a) All United Kingdom establishments classified

| | R. 84 10 1 | 1. (c) (c) | | Employees | yees | Wages and salaries | salaries | Wages and salaries per head | salaries 1ead | | | | Net | Capital | Total stocks and |
|----------------------------------|-----------------------|-------------------------|--|-------------------------------|------------------|--------------------|---|--------------------------------|------------------|--|-----------------|---------------|-----------------------|----------------------------------|--|
| Size group (b) | lish- ments | Enter- prises (c) | Total employment (b) | Operatives | Others (d) | Operatives | Others (d) | Operatives | Others (d) | Total sales and work done (e) | Gross output | Net output | output per head | expen- diture (net) (f) | work in progress at end of year |
| | Number | Number | Number | Number | Number | £,000 | £,000 | ન્ય | સ | £,000 | £,000 | £,000 | સ | 2,000 | £,000 |
| 1-10 | 459 | 458 | 3,510 | | | | | 10.00 | | 100 | | | | | |
| 11-24 | 513 | 506 | 8,888 | | 2 | | | | | | | | | | |
| 25-49 | 187 | 183 | 6,893 | 23,221 | 8,003 | 30, 803 | 19,112 | 1,544 | 1,816 | 180,117 | 189,904 | 89,494 | 2,689 | 5,097 | 37, 606 |
| 50-99 | 661 | 190 | 13,987 | | | | | | | | | | | (8 | |
| 100-199 | 126 | 120 | 16,655 | 11,746 | 4,852 | 19,291 | 9,282 | 1,642 | 1,913 | 110,153 | 109,396 | 51, 332 | 3,082 | 2,817 | 19,392 |
| 200-299 | 42 | 40 | 10,552 | 7,206 | 3,337 | 11,516 | 6,132 | 1,598 | 1,838 | 63,754 | 63,684 | 29,790 | 2,823 | 2,234 | 16,518 |
| 300-749 | 58 | 51 | 27,997 | 16,588 | 11,405 | 27,524 | 21,978 | 1,659 | 1,927 | 207,082 | 207,857 | 94,436 | 3,373 | 4,248 | 75,921 |
| 750 and over | 38 | 58 | 67,724 | 39,131 | 28,593 | 77,734 | 58,846 | 1,987 | 2,058 | 477,747 | 557, 824 | 267,407 | 3,948 | 7,964 | 621,055 |
| 1 | e hans th | | Suresa bolisito | | | | | | | | | • | | baitie | ie Itali |
| | 1 | | | | | | 100 0000 100 000 100 000 100 000 | 440 67 944 110 | | | | | | na ^t i n | bhar |
| Total | 1,622 | 1,462 | 156,206 | 97,892 | 56,870 | 171,918 | 112,010 | 1,756 | 1,970 | 1,044,853 1,128,665 | 1,128,665 | 532,459 | 3,409 | 22,360 | 770,492 |
| (a) Including es and for esta | stimates ablishmen | for esta tts emplo | Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons. | ot making sa an 25 personu | tisfactory s. | returns | | (d) Adminis | strative, t | Administrative, technical and clerical employees | clerical | employees | | alases a | han >1 |

Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment. (q)

Some enterprises control establishments in more than one size group: the sum of the figures for the size groups will therefore exceed the total for the industry. (c)

Including sales of goods merchanted or factored, canteen takings and services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered). (e)

disposals

less

Acquisitions

(f)

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| Area | | e number ved (a) | Net ca expendi | apital ture (b) | |
|--------------------------------|-----------|-------------------------------------|-------------------|-------------------------------------|--|
| | ACTER AC | PDR STR | FORMACES | | |
| | Thousands | per cent of United Kingdom | £'000 | per cent of United Kingdom | |
| Standard regions of England | 2.4.5 M | | | L.M. | |
| North | 21.0 | 13.4 | 3,330 | 14.8 | |
| Yorkshire and Humberside | 11.4 | 7.3 | 1,219 | 5.4 | |
| East Midlands | 9.9 | 6.4 | 1,073 | 4.8 | |
| East Anglia | 1.2 | 0.8 | 178 | 0.8 | |
| South East | 32.1 | 20.6 | 4,483 | 20.1 | |
| South West | 3.0 | 2.0 | 712 | 3.2 | |
| West Midlands | 27.7 | 17.7 | 3,275 | 14.7 | |
| North West | 22.5 | 14.4 | 2,896 | 13.0 | |
| England | 129.0 | 82.6 | 17,167 | 76.8 | |
| Wales | 5.3 | 3.4 | 1,080 | 4.8 | |
| Scotland | 21.0 | 13.4 | 3,912 | 17.5 | |
| Great Britain | 155.3 | 99.4 | 22,160 | 99.1 | |
| Northern Ireland | 0.9 | 0.6 | 200 | 0.9 | |
| Unallocated (d) | | e se sen - al | 10.55 | * _ | |
| United Kingdom | 156.2 | 100.0 | 22,360 | 100.0 | |

(a) Average number employed (full and part time; see table 6) during the year (including working proprietors) by the establishment.

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

(c) Where a census return covered addresses in two or more regions an estimate was made of the net output attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate was made by assuming that net output at each address covered by a return was proportionate to employment at the address. The establishment's residual net output was included in unallocated net output.

(d) Includes estimates of net output for establishments not making satisfactory returns and establishments employing less than 25 employees, and unallocated net output of establishments covering addresses in two or more regions.

TABLE 4

Regional distribution of employment, net capital expenditure and net output, 1972 All United Kingdom establishments classified to the industry

| establishmen | and employment in nts with more than yment in the regio | 80 per cent of |
|----------------------------|--|---|
| Estimated net output | Average number employed as a percentage of total average number employed in the industry in the region | Net output as percentage of total of the industry in the United Kingdom |
| £'000 | | De holisere De holisere Sierretere |

| | A STREET | g and an all and all a |
|---------|----------|------------------------|
| 58,889 | 69.8 | 11.1 |
| 22,307 | 71.0 | 4.2 |
| 19,656 | 70.5 | 3.7 |
| 981 | 35.7 | 0.2 |
| 90,331 | 57.0 | 16.9 |
| 4,925 | 59.1 | 0.9 |
| 45,201 | 63.5 | 8.5 |
| 51,088 | 71.3 | 9.6 |
| 293,379 | 65.1 | 55.1 |
| 10,550 | 58.8 | 2.0 |
| 29,190 | 51.2 | 5.5 |
| 333,119 | 63.0 | 62.6 |
| 1,783 | 81.1 | 0.3 |
| 197,557 | | 37.1 |
| 532,459 | | 100.0 |

PA341 6

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 25 or more persons, 1972

| Accounting year ended | | Percentage of total returns received | Percentage of total number employed |
|-----------------------|-----------------------|---|--|
| | the she had to be the | per cent | per cent |
| 1972 | April (a) | 2.5 | 1.4 |
| | May | 0.8 | 0.2 |
| | June | 5.2 | 2.5 |
| | July | 2.7 | 1.7 |
| | August | 1.5 | 0.8 |
| | September | 5.0 | 3.3 |
| | | | |
| | October | 2.9 | 2.0 |
| | November | 2.1 | 0.5 |
| | December | 42.1 | 51.6 |
| 1973 | January | 2.5 | 1.8 |
| | February | 2.3 | 1.1 |
| | March(b) | 30.4 | 33.1 |
| | | 100.0 | 100.0 |

(a) From 6th April

(b) Including returns made for twelve-month period ended 1st to 5th April 1973

TABLE 6

Percentage analysis of employees, by full and part time employment and sex, 1972 (a)

| Sex | Full time | Part time | All employees |
|---|--|---|--|
| | per cent | per cent | per cent |
| | The set of the set | | |
| | | on 10 pm2 28 0.001 | Toti i i internet |
| Male | 89 | 1 | 90 |
| Female | 8 | 2 | 10 |
| | and the geo particle mentioned to | istanisell, eest amiltreiopa | contain allow per la land drift |
| "range and and tagetan and "anar nongraphic and another a set by a set of helpedena are a battan | and a second term of an approximate provide the second sec | seried materials in two or o ten cale where more from bit into all where more from bit interes were more by measuring interesting of the additions. | to approve a second second to the second sec |
| | 97 | 3 | 100 |

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1972

TABLE 7

Sales of principal products of the industry by establishments employing 25 or more persons, including sales by establishments classified to other industries, 1972 (a)

BOILERS AND BOILER-HOUSE PLANT FOR STEAM GENERATION (EXCLUDING HOT WATER BOILERS FOR CENTRAL HEATING, LOCO-MOTIVE OR MARINE BOILERS, BURNERS AND FURNACES):

WATER TUBE BOILERS:

COMPLETE:

CONVENTIONAL FIRED NUCLEAR FIRED BOILER DRUMS, SOLD SEPARATELY

SHELL BOILERS, COMPLETE:

FOR HOT WATER FOR STEAM

OTHER BOILERS AND PARTS (INCLUDING SECTIONAL BOILERS FOR STEAM, LOCOMOTIVE TYPE BOILERS FOR STATIONARY PURPOSES AND WASTE HEAT BOILERS: BUT EXCLUDING SEC-TIONAL BOILERS FOR CENTRAL HEATING) (b)

BOILER-HOUSE PLANT, SOLD SEPARATELY:

FUEL ECONOMISERS, FEED WATER HEATERS AND STEAM SUPER HEATERS, COMPLETE AND PARTS INDUSTRIAL AIR HEATERS, RECUPERATORS AND REGENERATORS, COMPLETE AND PARTS

OTHER BOILER-HOUSE PLANT, COMPLETE AND PARTS (INC-LUDING BOILER FIRING PLANT AND MECHANICAL STOKERS, BUT EXCLUDING FURNACES AND BURNERS)

TOTAL SALES OF BOILERS AND BOILER-HOUSE PLANT

OTHER INDUSTRIAL, INCLUDING PROCESS, PLANT:

FURNACES, KILNS AND FURNACES FOR STRIP PROCESSING LINES:

BLAST AND STEELMAKING FURNACES FURNACES FOR STRIP PROCESSING LINES

ELECTRICALLY HEATED FURNACES AND KILNS:

LOW TEMPERATURE OVENS

MELTING, DIRECT ARC AND ELECTRO-SLAG AND INDUCTION (EXCLUDING HIGH FREQUENCY INDUCTION MICRO-WAVE AND **DI-ELECTRIC TYPES**) HEAT TREATMENT AND OTHER

FUEL FIRED FURNACES AND KILNS:

HEAT TREATMENT LOW TEMPERATURE OVENS MELTING PROCESSING KILNS (CEMENT, LIME, ROTARY AND VERTICAL) **RE-HEATING AND FORGING**

TOTAL SALES OF FURNACES AND KILNS

WATER, EFFLUENT AND SEWAGE TREATMENT PLANT (EXCLUDING CIVIL WORK):

WATER TREATMENT PLANT (E.G. CLARIFICATION, SETTLEMENT, FILTRATION, BASE EXCHANGE, ION EXCHANGE, REVERSE OSMOSIS, DIALYSIS, DOSING AND DE-AERATION):

FOR INDUSTRIAL USE FOR MUNICIPAL USE

PA341 7

| 1 | 972 |
|---|----------------------------------|
| | |
| | |
| | |
| £ THOUS £ THOUS £ THOUS | 47,158 10,837 703 |
| £ THOUS | 2,440 9,769 |
| £ THOUS | |
| £ THOUS | 8,827 |
| £ THOUS | 4,880 |
| | 22,054 |
| | 117,689 |
| | |
| £ THOUS £ THOUS | 4,555 4,771 |
| £ THOUS | 435 |
| £ THOUS £ THOUS | 5,527 12,667 |
| £ THOUS £ THOUS £ THOUS £ THOUS £ THOUS | 7,101 1,298 1,924 1,096 |
| £ THOUS | 4,669 |

| 3 | THOUS | 8,597 |
|---|-------|-------|
| | THOUS | 8,483 |

44.041

£ THOUS

TABLE 7 (CONTINUED)

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TABLE 7 (CONTINUED)

1972

| OTHER INDUSTRIAL INCLUDING PROCESS, PLANT: (CONTINUED) | | |
|--|-------------------------------|-----------------------------|
| FUEL FIRED FURNACES AND KILNS: | | |
| EFFLUENT AND SEWAGE TREATMENT PLANT (E.G. SCREENING COMMINUTION, GRIT EXTRACTION, SEDIMENTATION, BIO- LOGICAL FILTRATION, AERATION, SLUDGE TREATMENT AND TERTIARY TREATMENT): | | |
| FOR INDUSTRIAL USE FOR MUNICIPAL USE | £ THOUS £ THOUS | 2,974 11,528 |
| TOTAL SALES OF WATER, EFFLUENT AND SEWAGE TREATMENT Plant | £ THOUS | 31,582 |
| REFUSE DISPOSAL PLANT: INCINERATORS OTHER DISPOSAL PLANT | £ THOUS £ THOUS | $4,261 \\5,164$ |
| OTHER PLANT: AIR AND GAS CLEANSING PLANT (EXCLUDING AIR CONDITION- ING EQUIPMENT) ELECTRO-PLATING PLANT AND MACHINERY | £ THOUS £ THOUS | 9,7754,664 |
| GRAIN PROCESSING MACHINERY AND PLANT (INCLUDING RICE MILLING MACHINERY) | £ THOUS | 7,233 |
| TOTAL SALES OF REFUSE DISPOSAL AND OTHER PLANT | £ THOUS | 31,097 |
| TOTAL SALES OF OTHER INDUSTRIAL, INCLUDING PROCESS Plant | £ THOUS | 106,720 |
| FABRICATED IRON AND STEELWORK OTHER THAN CONSTRUCTIONAL STEELWORK BUT INCLUDING SIMILAR WORK IN OTHER METALS: | | |
| HEAT EXCHANGE EQUIPMENT (EXCLUDING INDUSTRIAL AIR HEATERS AND ECONOMISERS): | | |
| COLUMNS, REFORMERS, CRACKERS AND FRACTIONATORS EVAPORATORS HEAT EXCHANGERS AND CONDENSERS (SHELL TUBE, PLATE | £ THOUS £ THOUS | $4,047 \\ 2,538$ |
| AND AIR-COOLED) | £ THOUS | 27,309 |
| FABRICATED CONTAINERS ASSOCIATED WITH NUCLEAR EQUIPMENT | £ THOUS | 2,490 |
| OTHER FABRICATED CONTAINERS AND ENCLOSURES (EXCLUDING TRANSPORT CONTAINERS): | | |
| BUNKERS, BINS AND SILOS FOR SOLIDS PRESSURE VESSELS AND SPHERES STORAGE TANKS AND WATER TOWERS OVER 300 LITRES | £ THOUS £ THOUS £ THOUS | 4,365 22,231 26,877 |
| OTHER, FABRICATED IRON AND STEELWORK: | | |
| CHIMNEYS, DUCTS AND FLUES FABRICATED PIPES AND PENSTOCKS OTHER (INCLUDING BUOYS AND FLOTATION VESSELS) | £ THOUS £ THOUS £ THOUS | $6,340 \\ 15,646 \\ 32,157$ |
| STEEL TUBULAR SCAFFOLDING AND FITTINGS | £ THOUS | 8,143 |
| OTAL SALES OF FABRICATED IRON AND STEELWORK | £ THOUS | 152,143 |
| CONSTRUCTIONAL STEELWORK INCLUDING SIMILAR WORK IN OTHER METALS AND PORTABLE PRE-FABRICATED AND TEMPORARY STRUC- NURES, FOR: | | |
| BRIDGES, VIADUCTS, ELEVATED ROADWAYS, ETC TUNNELS | £ THOUS £ THOUS | $15,145\\846$ |
| DOCKS, HARBOURS, JETTIES, SLUICE GATES, ETC POWER STATIONS: | £ THOUS | 2,790 |
| CONVENTIONAL NUCLEAR | £ THOUS £ THOUS | 6,085 6,090 |
| | | |

THE DECORDE DIANT. (CONTINUED)

CONSTRUCTIONAL STEELWORK INCLUDING SIMILAR WORK IN OTHER METALS AND PORTABLE PRE-FABRICATED AND TEMPORARY STRUC-TURES, FOR: (CONTINUED)

DOMESTIC BUILDINGS:

FLATS OTHER

FACTORY BUILDINGS COMMERCIAL BUILDINGS EDUCATIONAL BUILDINGS

HOSPITAL BUILDINGS AGRICULTURAL BUILDINGS TOWERS OTHER FABRICATED CONTRUCTIONAL STEELWORK (INCLUDING PLANT SUPPORTS AND STEEL SHUTTERING)

TOTAL SALES OF CONSTRUCTIONAL STEELWORK

TOTAL SALES OF INDUSTRIAL (INCLUDING PROCESS) PLANT AND STEELWORK EXCLUDING WASTE PRODUCTS, WORK DONE, AND UNCLASSIFIED SALES

WASTE PRODUCTS

WORK DONE:

VALUE OF ERECTION AND INSTALLATION WORK ON MACHINERY AND PLANT (INCLUDING NON-CONSTRUCTIONAL STEELWORK, BUT EXCLUDING HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT, COMPLETE PROCESS PLANTS AND CONSTRUCTIONAL STEELWORK):

BOILERS AND BOILER-HOUSE PLANT INDUSTRIAL (INCLUDING PROCESS), PLANT OTHER FABRICATED IRON AND STEELWORK

BUILDING AND CIVIL ENGINEERING WORK CARRIED OUT (INC-LUDING THE ERECTION AND INSTALLATION OF HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT BUT NOT OF COMPLETE PROCESS PLANTS, NOR OF INDUSTRIAL PLANT AND MACHINERY AND NON-CONSTRUCTIONAL STEELWORK) RESEARCH AND DEVELOPMENT WORK DONE FOR CUSTOMERS, INCLUDING GOVERNMENT DEPARTMENTS, FOR WHICH PAYMENT IS RECEIVABLE

REPAIR AND JOBBING WORK OTHER WORK DONE ON MATERIALS SUPPLIED BY THE CUSTOMER

TOTAL VALUE OF WORK DONE

UNCLASSIFIED SALES

TOTAL SALES OF PRINCIPAL PRODUCTS OF MLH 341 (EXCLUDING MLH 341.3) (INDUSTRIAL (INCLUDING PROCESS) PLANT AND STEELWORK) AND WORK DONE

(a) Sales are deliveries on sale for home or abroad. Forward sales are excluded. Values are net selling values; purchase tax, trade discounts and commissions are excluded.

(b) 'Other boilers and parts' include thermal liquid heating units.

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1972

| £ | THOUS | 361 |
|---|-------|---------|
| £ | THOUS | 2,817 |
| | | |
| £ | THOUS | 39,647 |
| £ | THOUS | 14,478 |
| £ | THOUS | 8,193 |
| | | |
| £ | THOUS | 1,162 |
| £ | THOUS | 4,734 |
| £ | THOUS | 7,073 |
| | | |
| £ | THOUS | 47,755 |
| | | , |
| £ | THOUS | 157,176 |
| | | |
| | | |
| • | THOUG | |
| r | THOUS | 533,728 |
| £ | THOUS | 601 |
| ~ | | 001 |

| £ | THOUS | 6,958 |
|---|-------|--------|
| £ | THOUS | 14,785 |
| £ | THOUS | 13,565 |

| £ | THOUS | 5,945 |
|---|----------------|-----------------|
| £ | THOUS | 391 |
| | THOUS THOUS | 22,306 3,934 |
| £ | THOUS | 67,884 |
| £ | THOUS | 17,846 |
| | | |

£ THOUS 620,059

Source: Business Monitor (PQ341) - Quarterly Statistics

Votes

These notes give the main information needed for interpreting figures in the industry reports, (more detailed information but the census is given in a separate booklet-"Introductory otes", Part PA 1001 of the Report on the Census of Production r 1972).

ENERAL INFORMATION

Changes made for 1972 here were only minor changes in the scope of certain industry eports compared with 1971. Any such changes are explained in e introductions to the industry reports concerned or by otnotes to the tables.

ndustrial classification

the Annual Censuses of Production are conducted on the iness Statistics Office's Production Register. Normally tablishments on the Register are classified to industries on the asis of major activity in conformity with the Standard ndustrial Classification (revised 1968). Generally an establishent is classified to an industry if its sales of the principal oducts of that industry accounts for a greater proportion of s total sales than its sales of the principal products of any other dustry; classification is generally based on an establishment's eturns to the quarterly production inquiry. Where this is not sible-for example where a quarterly production inquiry has ot been introduced-the classification of an establishment ects its return to the Census of Production, 1968. Establishents for which information is not available either from the uarterly inquiries or the 1968 Census are classified on the basis the description of the business given by the establishments to Business Statistics Office, for instance, in the course of istration

verage

etailed census returns were generally sought only from stablishments employing on average 25 or more persons, but some industries where firms employing less than 25 persons ount for a relatively high proportion of total employment nd output the exemption limit was lowered to 11. Census urns were also sent to establishments whose employment was ot known to the Business Statistics Office at the time of dispatch.

ERMS USED IN THE CENSUS REPORT

verage number employed

stablishments were required to state the number of persons on the payroll (i.e. whose national insurance cards were held by m) on the average during the year of return, whether full-time part time employees. Separate figures were required for (a) ninistrative, technical and clerical employees and (b) all other nployees (operatives). Averages could be calculated from ires relating to the last week of each calendar month. Establishments were also required to state the number of working oprietors where appropriate and these are included in total mployment figures. Outworkers (i.e. persons employed by blishments who worked in their own homes etc. on materials oplied by the establishments) are excluded.

he figures include persons engaged on merchanting or factoring d canteen workers where particulars in respect of these ctivities could not be excluded from the return.

Vorking Proprietors

these include all persons regarded as "self employed" for ational insurance purposes and members of their families who orked in the business without receiving a wage or salary; t such persons who worked less than half the normal number of orking hours are excluded. Directors working in the business not in receipt of a definite wage, salary or commission are uded under this heading: directors paid by fee only are not cluded

Employees Administrative, technical and clerical employees include anaging and other directors in receipt of a definite wage, salary commission, managers, superintendents and works foremen; search, experimental development, technical and design nployees (other than operatives); draughtsmen and tracers; torial staff, staff reporters, canvassers, competition and vertising staff; travellers; and office (including works office) ployees

Operatives include all other classes of employees, that is, breadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work (including roundsmen), stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc. are also included, but out-workers are excluded.

Capital expenditure Capital expenditure during the year in respect of manufacturing units where production had not started before the end of the year is included in the figures for both 1970, 1971 and 1972. Establishments were asked to include in the value of capital expenditure, amounts received under the Local Employment Acts, 1960 to 1971 and any investment grants received under the Industrial Development Act, 1966 or regional development grants under the Industry Act, 1972.

(a) New building work This represents the cost incurred during the year of new building and other constructional work (including office buildings, canteens and the like used in connection with the business covered by the return, but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension of reconstruction of old buildings, the value of works of a capital nature carried out by the establishment's own staff and the cost of any newly constructed buildings purchased. Figures shown include any legal charges, stamp duties, agents' commissions, etc.

(b) Land and existing buildings The items shown are the capital cost of freeholds purchased and the capital cost of premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

(c) Plant, machinery and vehicles The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during year. The value of plant and machinery acquired includes plant, etc., which firms produced for their own use in connection with the business covered by the return. The value of plant, etc., acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. No deduction is made for depreciation. amortization or obsolescence. The proceeds of items disposed of during the year exclude amounts written off for items scrapped.

Enterprise

The term enterprise is used in this report to mean one or more establishments under common ownership or control (as defined in the Companies Act 1948) making returns to the census. An enterprise may consist of a single establishment, or of more than one establishment owned by one legal unit, usually a company, or of a number of establishments owned by a parent company and subsidiary company or companies. Information about the relationship between constituent companies of enterprises was obtained mainly from published sources such as the Stock Exchange Year Book supplemented by information from company reports and information supplied by establishments. The information available is not complete but covers the largest and most important groups of industrial establishments and is believed sufficient to provide a worthwhile basis for analysis.

Establishment

The definition of an establishment in 1970, 1971 and 1972 was that of the Standard Industrial Classification (revised 1968): "the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turnover, capital formation". Sometimes activities which are conducted as a single business are carried on at a number of addresses, termed local units. Where the activities of such a business are closely integrated, and detailed census information is not available for each unit, it is treated as a multi-unit establishment and a single return accepted. Separate figures are obtained, however, of employment and net capital expenditure at each unit

Gross output

Gross output measures the total value of production (including work done) by establishments during the year. It is calculated as follows:—

Value of sales and work done Plus/Less: Increase/decrease in value of stocks of goods on hand

for sale Plus/Less: Increase/decrease in value of work in progress

= Gross output.

Net output

Net output represents the value added to materials by the process of production (including the margin on selling any merchanted or factored goods). It is calculated as follows:— Gross output

Less: Purchases adjusted for change in value of stocks of fuel and raw materials

Less: Payments for work given to other establishments

Less: Payments for transport

Less: Net amount of any duties, subsidies, allowances and levies payable

= Net output.

Net output per person employed

The figures of net output per person employed are derived by dividing the net output by the average number of persons employed (full time and part time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Purchases

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packaging materials including the cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to establishment's own buildings, plants and vehicles when carried out by their own work people included in the returns; of consumable tools; and of parts for machninery purchased during the year as replacements. Water charges are also included. In general, purchases of goods for merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded, as are all purchases charged to capital account.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced: amounts paid to transport organisations, including an establishment's own separate transport organisations for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at the c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivery cost if invoiced "carriage paid home". Materials and fuel transferred from another department of the establishment not covered by the same return are included at the estimated selling value recorded by the other department.

Sales

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other establishments from materials given out to them (sometimes described as goods made on commission) and waste products. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the establishment's asset accounts. Goods sold without being subjected to any manufacturing process (i.e. merchanted or factored) and canteen takings are included.

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 excluding any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packaging materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value.

Goods produced in one establishment and transferred to another establishment of the same firm not covered by the return were treated as sales by the producing establishment and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations for which separate accounts were kept were valued on the same basis

To the extent that sales of 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. In some industries, e.g. motor vehicle manufacturing, and woollen and worsted, this duplication is substantial; and aggregates for a number of industries contain significant amounts of duplication. For work done on commission, sub-contract work, etc., the value shown is the total amount charged for the work, including the value of any materials bought and used in such work.

Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other services rendered to other organisations. It includes amounts credited for similar services rendered to other establishments of the same enterprise not covered by the return.

Standard Industrial Classification

Industry classification is based on the Standard Industrial Classification (revised 1968). It is published by HM Stationery Office together with a separate index in the form of an alphabetical list of industries.

Stocks and work in progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the end of the year of return, including any stocks of goods held for merchanting or factoring. Values of the change during the year are also shown. The values include duty in the case of dutiable goods held out of bond.

The value of work in progress at the end of, and the change during the year are also usually shown. This excludes any progress payments made to sub-contractors, 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 payment to other establishments, and to any separate transport organisation of the same establishment 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, i.e. railways, road haulage, canals, coastwise shipping, air, etc. Payments made for sea and air freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

Wages and salaries

These are 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. and employers' contributions to national insurances and pension schemes is excluded.

Work given out

The figures shown represent the total amount paid for work done by other establishments (whether part of the same enterprise or not) on materials supplied to them. They do not include payments to individual outworkers or payments for business and other services.

SYMBOLS USED

The following symbols are used throughout the report:

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

ROUNDING OF FIGURES

Figures in the tables have, where necessary, been rounded to the nearest final digit; there may be an apparent slight discrepancy between the sum of the constituent items and the total shown.



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