



BOARD OF TRADE

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THE REPORT  
on the  
CENSUS OF PRODUCTION  
FOR 1951

Volume 8

Trade I

SUGAR AND GLUCOSE



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\* Not applicable to this trade

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SUGAR AND GLUCOSE TRADE

THIS REPORT on the Sugar and Glucose Trade relates to establishments engaged wholly or mainly in producing or refining sugar and the manufacture of syrup and treacle, molasses, invert sugar and glucose.

This trade corresponds to minimum list heading 155 in the Standard Industrial Classification.

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

IMPORTANT NOTES and definitions appear on the inside of the back cover of this report. In interpreting the data in the following tables, it is essential to bear these in mind.

## SUGAR AND GLUCOSE TRADE

## Summary

## Larger establishments (a)

TABLE 1

|   | Great Britain    |                  |                  |                  |                 |
|---|------------------|------------------|------------------|------------------|-----------------|
|   | 1951             | 1950             | 1949             | 1948             | 1935            |
| Gross output (production) (b)   | £'000<br>176,844 | £'000<br>156,726 | £'000<br>139,664 | £'000<br>135,507 | £'000<br>43,722 |
| Ministry of Food cost-adjustments, balancing payments and deficiency payments or subsidy (1935) | - 8,724          | - 6,833          | - 7,909 (c)      | - 793            | + 2,219         |
| Cost of materials and fuel used (f)   | 138,107 (d)      | 125,820 (d)      | 100,418 (d)      | 89,760 (d)       | 37,910 (e)      |
| Payment for work done on materials given out  | 9                | 10               | 17               | 17               | 5               |
| Customs and Excise duties   | 9,960            | 8,758            | 18,160           | 31,183           | 2,500 (g)       |
| Transport payments (h)  | 1,521            | ..               | ..               | ..               | ..              |
| Net output  | 18,522           | 15,305           | 13,161 (c)       | 13,754           | 5,526           |
| Wages and salaries of persons employed  | 8,020            | 7,225            | 6,815            | 6,549            | ..              |
| Average number of persons employed (i)  | No.<br>18,799    | No.<br>18,282    | No.<br>18,064    | No.<br>18,063    | No.<br>17,661   |
| Net output per person employed (i)  | £<br>985         | £<br>837         | £<br>728 (c)     | £<br>761         | £<br>313        |
| Stocks at end of year   | £'000            | £'000            | £'000            | £'000            | £'000           |
| Products on hand for sale and work in progress  | 10,850           | 9,630            | 7,465            | 7,457            | ..              |
| Materials and fuel  | 9,992            | 8,449            | 8,810            | 7,038            | ..              |
| Number of establishments  | No.<br>50        | No.<br>52        | No.<br>52        | No.<br>51        | No.<br>59       |

The values of gross output and of materials and fuel used are derived in the following way:-

|  | £'000   | £'000   | £'000   | £'000   | £'000  |
|--|---------|---------|---------|---------|--------|
| Output of firms in this trade (j)              |         |         |         |         |        |
| Principal products (k)                         | 172,249 | 155,341 | 137,824 | 130,971 | 43,000 |
| Other output (l)                               | 3,388   |         |         |         |        |
| Changes in stocks and work in progress (m)     | + 1,207 | + 2,194 | + 2,498 | + 2,758 | 722    |
| Less payment for transport outwards (h)        | 176,844 | 157,535 | 140,322 | 136,034 | 43,722 |
|  | ..      | 809     | 658     | 528     |        |
| Gross output (production)                      | 176,844 | 156,726 | 139,664 | 135,507 | 43,722 |
| Materials and fuel used by firms in this trade |         |         |         |         |        |
| Purchases                                      | 139,708 | 125,450 | 102,212 | 89,291  | 37,910 |
| Changes in stocks (m)                          | - 1,601 | + 371   | - 1,794 | + 469   |        |
| Materials and fuel used                        | 138,107 | 125,820 | 100,418 | 89,760  | 37,910 |

- (a) For small firms' summary see Table 2.  
 (b) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.  
 (c) Corrected figure.  
 (d) Including duty on any duty-paid materials purchased: materials purchased in bond are recorded at their duty-free cost.  
 (e) Including net amount of Customs duty paid.  
 (f) Amounts paid for delivery services are excluded for 1951 but included for other years.  
 (g) Estimated Excise duty only.  
 (h) Payments to other firms and undertakings and to firms' own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.  
 (i) Including working proprietors. For an estimate of the total number of persons employed in this trade see Table 3.  
 (j) Total value of sales (1951, 1950, 1949 and 1948) or production for sale (1935).  
 (k) For details for 1951 and 1948 see Table 8.  
 (l) For details for 1951 and 1948 see Table 10.  
 (m) For details for 1951 see Table 21.

Summary  
Small firms (a)

TABLE 2

|  | Great Britain |      |      |      |
|--|---------------|------|------|------|
|  | 1951          | 1950 | 1949 | 1948 |
| Number of returns                      | 14            | 13   | 14   | 19   |
| Average number of persons employed (b) |               |      |      |      |
| Males                                  | 59            | 58   | 60   | 60   |
| Females                                | 11            | 15   | 11   | 17   |
| Total                                  | 70            | 73   | 71   | 77   |

- (a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns.  
 (b) Including working proprietors.

## Estimated average employment (a)

## All firms

TABLE 3

|   | Great Britain |        |        |        |
|---|---------------|--------|--------|--------|
|   | 1951          | 1950   | 1949   | 1948   |
| As returned by firms  |               |        |        |        |
| Employing on the average more than ten persons (b)                    | 18,799        | 18,282 | 18,064 | 18,063 |
| Employing on the average ten or fewer persons (c)                     | 70            | 73     | 71     | 77     |
| Estimated average employment in firms not making satisfactory returns | 18,869        | 18,355 | 18,135 | 18,140 |
| Estimated average employment in all firms                             | 18,869        | 18,355 | 18,135 | 18,148 |

- (a) Including working proprietors.  
 (b) See Table 14.  
 (c) See Table 2.

## Analysis by size, 1951

## Larger establishments in Great Britain

TABLE 4

| Average number employed | Establishments | Gross output | Net output | Persons employed | Remuneration |                     |       | Net output per person employed |
|-------------------------|----------------|--------------|------------|------------------|--------------|---------------------|-------|--------------------------------|
|                         |                |              |            |                  | Operatives   | Other employees (a) | Total |                                |
|                         | No.            | £'000        | £'000      | No.              | £'000        | £'000               | £'000 | £                              |
| 11 - 24                 | 4              | 785          | 102        | 82               | 15           | 16                  | 31    | 1,249                          |
| 25 - 49                 | 3              | 517          | 134        | 100              | 27           | 22                  | 49    | 1,342                          |
| 50 - 99                 | 9              | 3,605        | 680        | 659              | 160          | 99                  | 259   | 1,032                          |
| 100 - 199               | 5              | 5,183        | 736        | 789              | 199          | 87                  | 286   | 932                            |
| 200 and over            | 29             | 166,755      | 16,869     | 17,169           | 5,513        | 1,882               | 7,395 | 983                            |
| Total                   | 50             | 176,844      | 18,522     | 18,799           | 5,914        | 2,106               | 8,020 | 985                            |

- (a) Administrative, technical and clerical employees.

Analysis by standard region, 1951  
Larger establishments in Great Britain

TABLE 5

| Region   | Estab-<br>lish-<br>ments | Gross<br>output | Net output |                             | Persons<br>employed | Remuneration |                           |       | Net output<br>per person<br>employed |
|--|--------------------------|-----------------|------------|-----------------------------|---------------------|--------------|---------------------------|-------|--------------------------------------|
|  |                          |                 | Value      | Percent-<br>age of<br>total |                     | Operatives   | Other<br>employees<br>(a) | Total |                                      |
| England  | No.                      | £'000           | £'000      |                             | No.                 | £'000        | £'000                     | £'000 | £                                    |
| Northern: East<br>and West Ridings;<br>North Midland;<br>Eastern; and<br>London and South<br>Eastern | 28                       | 103,721         | 10,712     | 57.8                        | 11,591              | 3,770        | 1,312                     | 5,082 | 924                                  |
| Southern: South<br>Western; and<br>Midland   | 9                        | 11,580          | 1,622      | 8.8                         | 1,688               | 517          | 181                       | 698   | 961                                  |
| North Western  | 7                        | 45,963          | 4,913      | 26.5                        | 3,972               | 1,207        | 496                       | 1,703 | 1,237                                |
| Total England  | 44                       | 161,264         | 17,247     | 93.1                        | 17,251              | 5,493        | 1,989                     | 7,483 | 1,000                                |
| Wales  | -                        | -               | -          | -                           | -                   | -            | -                         | -     | -                                    |
| Scotland   | 6                        | 15,580          | 1,275      | 6.9                         | 1,548               | 421          | 117                       | 538   | 824                                  |
| Great Britain  | 50                       | 176,844         | 18,522     | 100.0                       | 18,799              | 5,914        | 2,106                     | 8,020 | 985                                  |

(a) Administrative, technical and clerical employees.

Analysis according to specialisation within the trade, 1951

Larger establishments in Great Britain

TABLE 6

|                                       | Estab-<br>lish-<br>ments | Gross<br>output | Sales of<br>charac-<br>teristic<br>products | Net<br>output | Persons<br>employed | Remuneration |                           |       | Net output<br>per person<br>employed |
|---------------------------------------|--------------------------|-----------------|---|---------------|---------------------|--------------|---------------------------|-------|--------------------------------------|
|                                       |                          |                 |   |               |                     | Operatives   | Other<br>employees<br>(a) | Total |                                      |
| Specialist producers of<br>Beet sugar | 18                       | 39,767          | 38,904                                      | 5,030         | 5,910               | 1,832        | 567                       | 2,399 | 851                                  |
| Remainder of the trade                | 32                       | 137,077         |   | 13,492        | 12,889              | 4,082        | 1,539                     | 5,621 | 1,047                                |
| Total                                 | 50                       | 176,844         |   | 18,522        | 18,799              | 5,914        | 2,106                     | 8,020 | 985                                  |

(a) Administrative, technical and clerical employees.

TABLE 7 - Total make of intermediate products: Larger establishments in Great Britain

This table is not applicable to the trade.

Sales of the principal products of the trade, including sales of these  
products by establishments classified to other trades

Larger establishments in Great Britain

TABLE 8

|   | 1951     |         |         | 1948     |           |
|---|----------|---------|---------|----------|-----------|
|   | Quantity | Value   | Entries | Quantity | Value     |
|   | Th.cwts. | £'000   | No.     | Th.cwts. | £'000     |
| Sugar, unrefined  | 5,254    | 8,402   | ..      | 5,301    | 5,708     |
| Sugar, refined or rendered by any process equal<br>thereto  |          |         |         |          |           |
| Over 98° polarisation   |          |         |         |          |           |
| For manufacturing purposes  | 13,833   | 40,960  | 11      | 13,578   | 40,296    |
| For domestic consumption  | 20,132   | 44,109  | 12      | 20,219   | 40,770    |
| For export  | 15,978   | 44,526  | 11      | 11,320   | 19,747    |
| Not exceeding 98° polarisation  |          |         |         |          |           |
| For manufacturing purposes  | 556      | 1,580   | ..      | 742      | 2,074     |
| For other purposes  | 64       | 140     | ..      | 80       | 156       |
| Sugar, ground or otherwise prepared for icing,<br>fondants, etc.  | 965      | 3,288   | 32      | 545      | 1,866 (a) |
| Syrup and treacle   | 2,248    | 7,641   | 15      | 2,587    | 8,638     |
| Invert sugar other than syrup and treacle   | 705      | 2,227   | 12      | 885      | 2,526     |
| Molasses  |          |         |         |          |           |
| Containing more than 50 per cent. of sweetening<br>matter   | 4,272    | 2,870   | 9       | 4,020    | 1,015     |
| Containing not more than 50 per cent. of<br>sweetening matter   | -        | -       | -       | 693      | 214       |
| Glucose   |          |         |         |          |           |
| Solid   | 179      | 546     | 6       | 1,536    | 4,166     |
| Liquid  | 2,104    | 7,086   | 9       |          |           |
| Powdered  | 120      | 762     | 5       |          |           |
| Apple Sweetener (a)   | 286      | 925     | 5       | -        | -         |
| Caramel   | 159      | 702     | 10      | 162      | 692       |
| Sugar and extracts from sugar which cannot be<br>completely tested by the polariscope, not<br>included in any of the headings above | 460      | 1,105   | 7       | 471      | 1,115     |
| Beet pulp   | 7,186    | 6,067   | ..      | 6,506    | 2,188     |
| Waste products  | ..       | 243     | 12      | ..       | 408       |
| Work done for the trade or on commission (b)  |          | 23      | 5       |          | 25        |
| Total   |          | 173,202 | ..      |          | 131,606   |
| Sales in other trades (see Table 9)   |          | 953     | ..      |          | 635       |
| Principal products of this trade sold by<br>establishments in the trade   |          | 172,249 | 33      |          | 130,971   |

(a) So far as recorded separately.  
(b) Amount charged.

Sales of principal products of the trade by establishments  
classified to other trades

## Larger establishments in Great Britain

TABLE 9

|   | 1951      |       |         | 1948      |       |
|---|-----------|-------|---------|-----------|-------|
|   | Quantity  | Value | Entries | Quantity  | Value |
|   | Th. cwts. | £'000 | No.     | Th. cwts. | £'000 |
| Sugar, ground or otherwise prepared for icing, fondants, etc. | 229       | 831   | 22      | 164       | 584   |
| Syrup and treacle   | 5         | 25    | ..      | 13        | 51(a) |
| Glucose, liquid and powdered                                  | 10        | 97    | ..      | -         | -     |
| Total   |           | 953   | ..      |           | 635   |

(a) Including caramel.

Sales in the trade of other than principal products  
Larger establishments in Great Britain

TABLE 10

|  | 1951          |       | 1948      |        |
|--|---------------|-------|-----------|--------|
|  | Quantity      | Value | Quantity  | Value  |
|  | Th. cwts.     | £'000 | Th. cwts. | £'000  |
| Nuts, shelled, ground or otherwise prepared      | 36.6          | 236   | 4.5       | 89     |
| Other preserved foods, including preserved fruit | ..            | 129   | 35.2      | 188    |
| Sugar confectionery                              | 37.7          | 211   | 69.6      | 394(a) |
|  | Hundreds      |       | ..        | 24     |
| Second-hand sacks and bags of jute, repaired     | 174,544       | 1,939 |           |        |
| Barley, maize and rice products                  | Tons<br>7,138 | 253   | ..        | 1,604  |
| Other goods                                      | ..            | 620   |           |        |
| Work done  |               | -     |           | 7(b)   |
| Total  |               | 3,388 |           | 2,305  |

(a) Including some chocolate intended for further manufacture.

(b) Amount charged.

## Production, exports and imports of certain principal products (a)

TABLE 11

|   |      | Production (b)(c) | Exports   | Retained Imports |
|---|------|-------------------|-----------|------------------|
|   |      | Th. cwts.         | Th. cwts. | Th. cwts.        |
|   |      |                   |           |                  |
| Sugar, unrefined  | 1951 | 5,254             | ..        | 44,829           |
|   | 1948 | 5,301             | ..        | 37,402           |
|   | 1935 | 5,376             | ..        | 38,239           |
| Sugar, refined  | 1951 | 50,563            | 14,494    | 691              |
|   | 1948 | 45,938            | 11,639    | 1                |
|   | 1935 | 43,365            | 6,680     | 1,023            |
| Glucose   | 1951 | 2,403             | 68        | 41               |
|   | 1948 | 1,536             | 36        | 10               |
|   | 1935 | 2,069             | 19        | 377              |
| Caramel   | 1951 | 159               | 22        | -                |
|   | 1948 | 162               | 11        | -                |
|   | 1935 | 179               | 19        | -                |
| Molasses and invert sugar and all other sugar and extracts from sugar | 1951 | 8,936             | 109       | 12,608           |
|   | 1948 | 8,656             | 299       | 8,207            |
|   | 1935 | 5,418             | 1,153     | 8,679            |

(a) Figures of production (or sales) refer only to larger establishments. All recorded exports from and imports into the United Kingdom are given in the table. The figures therefore, are not strictly comparable.

(b) Sales in 1951 and 1948, and production for sale in 1935.

(c) Including production (or sales) by establishments classified to other trades.

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TABLE 12 - Usage of certain specified purchased materials, 1951

## Larger establishments in Great Britain

No information on usage of materials was required from this trade.

## Employment in September

## Larger establishments (a)

TABLE 13

## (i) Operatives

Number

|          | Great Britain |         |         |         |         |
|----------|---------------|---------|---------|---------|---------|
|          | 1951(b)       | 1950(b) | 1949(b) | 1948(c) | 1935(c) |
| Males    |               |         |         |         |         |
| Under 18 | 445           | 397     | 425     | 425     | 332     |
| All ages | 14,486        | 13,354  | 12,041  | 11,975  | 13,700  |
| Females  |               |         |         |         |         |
| Under 18 | 622           | 526     | 621     | 671     | 511     |
| All ages | 3,456         | 3,322   | 3,285   | 3,149   | 1,803   |
| Total    |               |         |         |         |         |
| Under 18 | 1,067         | 923     | 1,046   | 1,096   | 843     |
| All ages | 17,942        | 16,676  | 15,326  | 15,124  | 15,503  |

## (ii) Administrative, technical and clerical employees (d)

Number

|          | Great Britain |          |          |          |       |
|----------|---------------|----------|----------|----------|-------|
|          | 1951          | 1950     | 1949     | 1948     | 1935  |
| Males    |               |          |          |          |       |
| Under 18 | 72            | 96       | 88       | 81       | 100   |
| All ages | 2,516         | 2,385    | 2,238    | 2,248    | 1,780 |
| Females  |               |          |          |          |       |
| Under 18 | 118           | 132      | 117      | 98       | 56    |
| All ages | 864           | 789      | 717      | 691      | 378   |
| Total    |               |          |          |          |       |
| Under 18 | 190           | 228      | 205      | 179      | 156   |
| All ages | 3,380(e)      | 3,174(e) | 2,955(e) | 2,939(e) | 2,158 |

## (iii) Total employees

Number

|          | Great Britain |           |           |           |        |
|----------|---------------|-----------|-----------|-----------|--------|
|          | 1951          | 1950      | 1949      | 1948      | 1935   |
| Males    |               |           |           |           |        |
| Under 18 | 517           | 493       | 513       | 506       | 432    |
| All ages | 17,002        | 15,739    | 14,279    | 14,223    | 15,480 |
| Females  |               |           |           |           |        |
| Under 18 | 740           | 658       | 738       | 769       | 567    |
| All ages | 4,320         | 4,111     | 4,002     | 3,840     | 2,181  |
| Total    |               |           |           |           |        |
| Under 18 | 1,257         | 1,151     | 1,251     | 1,275     | 999    |
| All ages | 21,322(e)     | 19,850(e) | 18,281(e) | 18,063(e) | 17,661 |

(a) Excluded employees. The following persons were employed at the larger establishments in this trade in 1951 but are not included in the above tables or in any other Census of Production report (e.g., employees engaged in merchanting):-

|                 |           |             |
|-----------------|-----------|-------------|
| Canteen workers | 74 Males  | 396 Females |
| Other workers   | 162 Males | 86 Females  |

(b) In week ended October 27, 1951, September 30, 1950, and September 24, 1949.

(c) Average for the year.

(d) In week ended October 27, 1951, September 30, 1950, September 24, 1949, September 25, 1948, and October 12, 1935.

(e) Working proprietors. No working proprietors were recorded for any post war year. The 1935 figures include any working proprietors.

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Average employment  
Larger establishments (a)

TABLE 14

|  | Great Britain |        |        |          |          | Number |
|--|---------------|--------|--------|----------|----------|--------|
|  | 1951          | 1950   | 1949   | 1948     | 1935     |        |
| Operatives                                       | 15,534        | 15,271 | 15,132 | 15,124   | 15,503   |        |
| Administrative, technical and clerical employees | 3,265         | 3,011  | 2,932  | 2,939(b) | 2,158(b) |        |
| Total  | 18,799        | 18,282 | 18,064 | 18,063   | 17,661   |        |

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns, see Table 2.

(b) In week ended September 25, 1948, and October 12, 1935. The 1935 figures include any working proprietors. Outworkers. No outworkers were recorded in this trade for any year.

## Shift working, 1951 (a)

## Larger establishments in Great Britain

TABLE 15

|   | Total number of man-shifts worked in the week | Total number of shift-hours worked in the week | Number of returns showing the systems stated |
|---|---|--|--|
| Continuous 3 shift systems per 24 hours averaging 8 hours per shift | 59,217  | 473,735  | 13   |
| Continuous 4 shift systems per 24 hours averaging 6 hours per shift | -   | -  | -  |
| All 2 shift systems   | 1,766   | 18,387   | 4  |
| Other shift systems   | -   | -  | -  |
| Total   | 60,983  | 492,122  | (b)  |

(a) Shift working during week ended October 27, 1951.

(b) The number and percentage of returns showing shift working and of operatives on shift-work were as follows:-

|   | Returns        |                    | Operatives     |                                     |                               |
|---|----------------|--------------------|----------------|-------------------------------------|-------------------------------|
|   | Total in trade | Showing shift-work | Total in trade | Total on returns showing shift-work | Number employed on shift-work |
| Number  | 33             | 17                 | 17,942         | 16,994                              | 9,613                         |
| Percentage of total in trade                      | 100.0          | 51.5               | 100.0          | 94.7                                | 53.6                          |
| Percentage of total on returns showing shift-work |                |                    |                | 100.0                               | 56.6                          |

Wages and salaries and employers' National Insurance contributions paid during the year  
Larger establishments

TABLE 16

|  | Great Britain |       |       |       | E'000 |
|--|---------------|-------|-------|-------|-------|
|  | 1951          | 1950  | 1949  | 1948  |       |
| Wages and salaries (a) of                                  |               |       |       |       |       |
| Operatives   | 5,914         | 5,341 | 4,979 | 4,838 |       |
| Administrative, technical and clerical employees           | 2,106         | 1,884 | 1,836 | 1,711 |       |
| Total  | 8,020         | 7,225 | 6,815 | 6,549 |       |
| Employers' contributions to all National Insurance Schemes | 179           | 180   | 170   | 139   |       |

(a) Including bonus and commission payments.

Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work  
Larger establishments

TABLE 17

|   | Great Britain |       |       | E'000 |
|---|---------------|-------|-------|-------|
|   | 1951          | 1949  | 1948  |       |
| Plant, machinery and vehicles   |               |       |       |       |
| Acquisitions  |               |       |       |       |
| Plant and machinery   |               |       |       |       |
| New   | 2,215         | 2,134 | 1,168 |       |
| Second-hand   | 5             | 6     | 3     |       |
| Vehicles  |               |       |       |       |
| New   | 89            | 81    | 86    |       |
| Second-hand   | 2             | 7     | 15    |       |
| Total acquisitions  | 2,311         | 2,228 | 1,272 |       |
| Disposals   |               |       |       |       |
| Plant and machinery   |               |       |       |       |
| Vehicles  | 27            | 34    | 35    |       |
|   | 9             | 3     | 4     |       |
| Total disposals   | 36            | 37    | 39    |       |
| New building work   |               |       |       |       |
| Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges) | 654           | 591   | 337   |       |

## SUGAR AND GLUCOSE TRADE

1951

Summary

## Larger establishments

TABLE 18

|   | England       | Wales    | Scotland     | Great Britain |
|---|---------------|----------|--------------|---------------|
|   | £'000         | £'000    | £'000        | £'000         |
| Gross output (production)   | 161,264       | -        | 15,580       | 176,844       |
| Ministry of Food cost-adjustments, balancing payments and deficiency payments | - 7,001       | -        | - 1,724      | - 8,724       |
| Cost of materials and fuel used   | 127,175       | -        | 10,932       | 138,107       |
| Payment for work done on materials given out                                  | 9             | -        | -            | 9             |
| Customs and Excise duties   | 8,361         | -        | 1,599        | 9,960         |
| Transport payments  | 1,471         | -        | 50           | 1,521         |
| Net output  | 17,247        | -        | 1,275        | 18,522        |
| Wages and salaries of persons employed  | 7,483         | -        | 538          | 8,020         |
| Average number of persons employed  | No.<br>17,251 | No.<br>- | No.<br>1,548 | No.<br>18,799 |
| Net output per person employed  | £<br>1,000    | £<br>-   | £<br>824     | £<br>985      |
| Stocks at end of year   | £'000         | £'000    | £'000        | £'000         |
| Products on hand for sale and work in progress                                | 10,510        | -        | 340          | 10,850        |
| Materials and fuel  | (a)           | -        | (a)          | 9,992         |
| Number of establishments  | No.<br>44     | No.<br>- | No.<br>6     | No.<br>50     |

The values of gross output and of materials and fuel used are derived in the following way:-

|   | £'000   | £'000 | £'000  | £'000   |
|---|---------|-------|--------|---------|
| Output of firms in this trade                         |         |       |        |         |
| Total value of sales (see Table 20)                   | 160,032 | -     | 15,604 | 175,637 |
| Changes in stocks and work in progress (see Table 21) | + 1,232 | -     | - 25   | + 1,207 |
| Gross output (production)                             | 161,264 | -     | 15,580 | 176,844 |
| Materials and fuel used by firms in this trade        |         |       |        |         |
| Purchases   | 127,875 | -     | 11,833 | 139,708 |
| Changes in stocks (see Table 21)                      | - 700   | -     | - 901  | - 1,601 |
| Materials and fuel used                               | 127,175 | -     | 10,932 | 138,107 |

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

## Summary

## Small firms (a)

TABLE 19

|  | England (b) | Wales | Scotland (b) | Great Britain |
|--|-------------|-------|--------------|---------------|
| Number of returns                      | 14          | -     | ..           | 14            |
| Average number of persons employed (c) |             |       |              |               |
| Males                                  | 59          | -     | ..           | 59            |
| Females                                | 11          | -     | ..           | 11            |
| Total                                  | 70          | -     | ..           | 70            |

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns.

(b) Owing to the risk of disclosure of information relating to individual firms, particulars for Scotland cannot be given separately and have been included in those for England.

(c) Including working proprietors.

Sales in the trade  
Larger establishments

TABLE 20

|   | England and Wales    |                | Scotland             |                | Great Britain        |                |
|---|----------------------|----------------|----------------------|----------------|----------------------|----------------|
|   | Quantity<br>Th.cwts. | Value<br>£'000 | Quantity<br>Th.cwts. | Value<br>£'000 | Quantity<br>Th.cwts. | Value<br>£'000 |
| Principal products  |                      |                |                      |                |                      |                |
| Sugar, unrefined  | 5,252                | 8,399          | 2                    | 3              | 5,254                | 8,402          |
| Sugar, refined or rendered by any process equal thereto   |                      |                |                      |                |                      |                |
| Over 98° polarisation   |                      |                |                      |                |                      |                |
| For manufacturing purposes  | ..                   | (a)            | ..                   | (a)            | 13,833               | 40,960         |
| For domestic consumption  | ..                   | (a)            | ..                   | (a)            | 20,132               | 44,109         |
| For export  | ..                   | (a)            | ..                   | (a)            | 15,978               | 44,526         |
| Not exceeding 98° polarisation  |                      |                |                      |                |                      |                |
| For manufacturing purposes  | ..                   | (a)            | ..                   | (a)            | 556                  | 1,580          |
| For other purposes  | ..                   | (a)            | ..                   | (a)            | 64                   | 140            |
| Sugar, ground or otherwise prepared for icing, fondants, etc.   | ..                   | (a)            | ..                   | (a)            | 736                  | 2,457          |
| Syrup and treacle   | ..                   | (a)            | ..                   | (a)            | 2,243                | 7,616          |
| Invert sugar, other than syrup and treacle  | ..                   | (a)            | ..                   | (a)            | 705                  | 2,227          |
| Molasses  |                      |                |                      |                |                      |                |
| Containing more than 50 per cent. of sweetening matter  | ..                   | (a)            | ..                   | (a)            | 4,272                | 2,870          |
| Containing not more than 50 per cent. of sweetening matter  | -                    | -              | -                    | -              | -                    | -              |
| Glucose   |                      |                |                      |                |                      |                |
| Solid   | 179                  | 546            | -                    | -              | 179                  | 546            |
| Liquid and powdered   | 2,214                | 7,751          | -                    | -              | 2,214                | 7,751          |
| Apple sweetener (b)   | 286                  | 925            | -                    | -              | 286                  | 925            |
| Caramel   | ..                   | (a)            | ..                   | (a)            | 159                  | 702            |
| Sugar and extracts from sugar which cannot be completely tested by the polariscope, not included in any of the headings above | 460                  | 1,105          | -                    | -              | 460                  | 1,105          |
| Beet pulp   | ..                   | (a)            | ..                   | (a)            | 7,186                | 6,067          |
| Waste products  | ..                   | 242            | ..                   | 1              | ..                   | 243            |
| Work done for the trade or on commission (c)  |                      | 18             |                      | 5              |                      | 23             |
| Total principal products  |                      | 157,121        |                      | 15,128         |                      | 172,249        |
| Other output  |                      |                |                      |                |                      |                |
| Nuts, shelled, ground or otherwise prepared, and other preserved foods, including preserved fruit                             | 33.6                 | 167            | 3.0                  | 69             | 36.6                 | 236            |
| Sugar confectionery   | ..                   | (a)            | ..                   | (a)            | 37.7                 | 211            |
|   |                      |                |                      |                | ..                   | 129            |
| Second-hand sacks and bags of jute, repaired  | ..                   | (a)            | ..                   | (a)            | 174,544              | 1,939          |
| Tons  |                      |                |                      |                | Tons                 |                |
| Barley, maize and rice products   | 7,138                | 253            | -                    | -              | 7,138                | 253            |
| Other goods   | ..                   | 620            | -                    | -              | ..                   | 620            |
| Total   |                      | 160,032        |                      | 15,604         |                      | 175,637        |

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

(b) So far as recorded separately.

(c) Amount charged.

Stocks of products on hand for sale and work in progress,  
and stocks of materials and fuel

Larger establishments

|  |                        | England and Wales | Scotland | Great Britain |
|--|------------------------|-------------------|----------|---------------|
| Products on hand for sale                            | { at beginning of year | (a)               | (a)      | (a)           |
|  | { at end of year       |                   |          |               |
| Work in progress                                     | { at beginning of year | (a)               | (a)      | (a)           |
|  | { at end of year       |                   |          |               |
| Total products on hand for sale and work in progress | { at beginning of year | 9,278             | 365      | 9,643         |
|  | { at end of year       | 10,510            | 340      | 10,850        |
| Materials and fuel                                   | { at beginning of year | (a)               | (a)      | 8,391         |
|  | { at end of year       | (a)               | (a)      | 9,992         |

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

Employment in September  
Larger establishments (a)(b)

|          | England and Wales | Scotland | Great Britain |
|----------|-------------------|----------|---------------|
| Males    |                   |          |               |
| Under 18 | 423               | 22       | 445           |
| All ages | 13,366            | 1,120    | 14,486        |
| Females  |                   |          |               |
| Under 18 | 489               | 133      | 622           |
| All ages | 3,109             | 347      | 3,456         |
| Total    |                   |          |               |
| Under 18 | 912               | 155      | 1,067         |
| All ages | 16,475            | 1,467    | 17,942        |

  

|              | England and Wales | Scotland | Great Britain |
|--------------|-------------------|----------|---------------|
| Males        |                   |          |               |
| Under 18     | 64                | 8        | 72            |
| All ages     | 2,364             | 152      | 2,516         |
| Females      |                   |          |               |
| Under 18     | 108               | 10       | 118           |
| All ages     | 794               | 70       | 864           |
| Total        |                   |          |               |
| Under 18     | 172               | 18       | 190           |
| All ages (c) | 3,158             | 222      | 3,380         |

TABLE 22 (contd.)

|              | England and Wales | Scotland | Great Britain |
|--------------|-------------------|----------|---------------|
| Males        |                   |          |               |
| Under 18     | 487               | 30       | 517           |
| All ages     | 15,730            | 1,272    | 17,002        |
| Females      |                   |          |               |
| Under 18     | 597               | 143      | 740           |
| All ages     | 3,903             | 417      | 4,320         |
| Total        |                   |          |               |
| Under 18     | 1,084             | 173      | 1,257         |
| All ages (c) | 19,633            | 1,689    | 21,322        |

(a) Excluded employees. The number of persons employed at the larger establishments in this trade but not included in the above tables or in any other Census of Production report (e.g., employees engaged in merchandising) are shown in Table 22 (iv) below.

(b) Number employed in the week ended October 27, 1951. Normally, for establishments in other trades, firms were required to give details of employment in the week ended September 22, 1951.

(c) No working proprietors were recorded.

|                          | England and Wales | Scotland | Great Britain |
|--------------------------|-------------------|----------|---------------|
| Canteen workers          |                   |          |               |
| Males                    | 71                | 3        | 74            |
| Females                  | 377               | 19       | 396           |
| Total                    | 448               | 22       | 470           |
| Other workers            |                   |          |               |
| Males                    | 144               | 18       | 162           |
| Females                  | 84                | 2        | 86            |
| Total                    | 228               | 20       | 248           |
| Total excluded employees | 676               | 42       | 718           |

Average employment

Larger establishments (a)

|  | England and Wales | Scotland | Great Britain |
|--|-------------------|----------|---------------|
| Operatives                                       | 14,197            | 1,337    | 15,534        |
| Administrative, technical and clerical employees | 3,054             | 211      | 3,265         |
| Total  | 17,251            | 1,548    | 18,799        |

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 19.

Outworkers. No outworkers were recorded in this trade.



Wages and salaries and employers' National Insurance contributions paid during the year

Larger establishments

|  | England and Wales | Scotland | Great Britain |
|--|-------------------|----------|---------------|
| Wages and salaries (a) of                                  |                   |          |               |
| Operatives   | 5,493             | 421      | 5,914         |
| Administrative, technical and clerical employees           | 1,989             | 117      | 2,106         |
| Total  | 7,483             | 538      | 8,020         |
| Employers' contributions to all National Insurance Schemes | 164               | 15       | 179           |

(a) Including bonus and commission payments.

Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

Larger establishments

|   | England and Wales | Scotland | Great Britain |
|---|-------------------|----------|---------------|
| Plant, machinery and vehicles   |                   |          |               |
| Acquisitions  |                   |          |               |
| Plant and machinery   |                   |          |               |
| New   | 2,153             | 62       | 2,215         |
| Second-hand   | 4                 | 1        | 5             |
| Vehicles  |                   |          |               |
| New   | 87                | 3        | 89            |
| Second-hand   | 2                 | -        | 2             |
| Total acquisitions  | 2,246             | 65       | 2,311         |
| Disposals   |                   |          |               |
| Plant and machinery   | 25                | 1        | 27            |
| Vehicles  | 8                 | 1        | 9             |
| Total disposals   | 34                | 2        | 36            |
| New building work   |                   |          |               |
| Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges) | (a)               | (a)      | 654           |

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

Payments for transport services for finished goods sold and materials and fuel purchased

Larger establishments

|  | England and Wales | Scotland | Great Britain |
|--|-------------------|----------|---------------|
| Amounts paid to other firms and undertakings and paid or credited to firms' own separate transport organisations | 1,471             | 50       | 1,521         |

GENERAL NOTES

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of production for 1951. Reference should be made to the separate booklet in this series entitled 'The Report on the Census of Production for 1951: Introductory Notes' (price 1s.6d. net) for particulars of the minor differences in the Northern Ireland censuses and other details about the census of production.

**Trade classification:** Establishments are classified to trades according to the nature of their output. Certain products, called principal products, are identified as characteristic of the production of individual trades, the principal products for a given trade being of a similar nature or commonly associated in production. An establishment is classified to a trade if its output of principal products of that trade accounted for a greater proportion of the value of its output than did its output of principal products of any other trade.

**The establishment:** The basic unit for the collection of information is generally the establishment which in most cases comprises the whole of the premises under the same ownership or management at a particular address (e.g., a factory). Offices, warehouses and other ancillary places of business situated apart from the producing works are included in the return for the works.

**Larger establishments and small firms:** Larger establishments are those which employed more than 10 persons on the average during the year; small firms are those employing on the average 10 or fewer persons.

**Working proprietors** are proprietors of businesses other than limited companies, and include members of their families who work in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded.

**Persons employed:** Administrative employees include directors other than those paid by fee only, managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and travellers and office (including works office) employees. Operatives include all other classes of employees, that is, broadly speaking, all manual workers.

All these figures exclude canteen employees and persons engaged in merchandising or any other activity not covered by a firm's return who are shown separately as excluded employees.

Figures for employees include only persons on the pay-roll (that is whose National Insurance cards were held by the firm), whether full-time or part-time employees.

**Outworkers,** who are shown separately, are persons employed by the firm who work on materials supplied by the firm, but do not work on the premises; operatives directly employed who work out of doors (e.g., maintenance workers) and sub-contractors are not included as outworkers.

**Wages and salaries** include all overtime payments, bonuses, and commissions, without any deduction for income tax, insurance, contributory pensions, etc. They exclude payments to working proprietors.

**Capital expenditure:** Expenditure on plant, machinery and vehicles relates to expenditure charged to capital account during the year of return, including transport and installation costs involved. Expenditure on new building work is similarly that charged to capital account during the year.

**Materials and fuel:** The cost of materials and fuel purchased includes all purchases during the year of materials for use in production and of fuel (including oil, gas, and electricity for all purposes, including heating and lighting); all packing materials, including the full cost of returnable 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; and consumable tools and parts for machinery purchased as replacement. Materials, components, etc. which were purchased and re-sold in the same state (that is, merchanted or factored goods) were excluded. For 1951 firms in many trades were required to state the quantities of certain purchased materials used.

**Stocks and work in progress:** Firms were instructed to give these at income tax value.

**Output:** Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. For all post-war censuses the value of sales was the net selling value, that is, the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

**Gross output** of a trade is the total value of goods made and other work done during the year; this means the value of sales and work done during the year adjusted for changes in the values of stocks.

**Net output** is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used and the amount paid for work given out and, for 1951, any transport payments included in firms' returns. This represents the value added to materials by the process of production, and 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.

**Customs and Excise Duty** paid on materials purchased is included in the cost of materials, but where it is especially important separate figures are shown.

**Later reports:** Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption.

**Disclosure of information:** The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have been combined with others of a similar nature in certain cases where publication of separate details might disclose the operations of an individual firm.

**Symbols used:** '..' for 'Not available', '-' for 'Nil or negligible (less than half the final digit shown)'

The figures in the tables have been rounded off to the nearest final digit, and there may be an apparent slight discrepancy between the sums of the constituent items and the totals shown.

Tables 1 to 17 show figures for the United Kingdom (or Great Britain).

Tables 18 to 26 are country tables and give, where practicable, separate details for England and Wales, Scotland and Northern Ireland.

Table 6: Specialist producers refer to those establishments 50 per cent. or more of whose total output by value is accounted for by the groups of products specified.

Table 8 (or 8(i)) shows the total sales of principal products of the trade, and includes therefore the sales of these products returned by establishments whether classified to the trade or to other trades. Those produced by establishments in other trades are shown in Table 9.

Table 10 shows the sales by establishments in the trade of products other than those regarded as principal products of the trade.

Table 20 (or 20(i)) shows sales by establishments in the trade of products, whether principal products or not, and broadly the aggregates here are equal to the corresponding figures in Table 8 (or 8(i)) less those in Table 9, plus those in Table 10.

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