

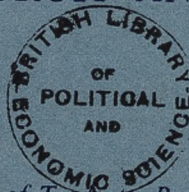
BOARD OF TRADE

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*The Report on the  
Census of Production  
for 1954*

Volume 8: Industry J

PRESERVED FRUIT AND VEGETABLES



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

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# The Report on the Census of Production for 1954

VOLUME 8 INDUSTRY J

## PRESERVED FRUIT AND VEGETABLES

THIS REPORT on the Fruit and Vegetable Products Industry relates to establishments engaged wholly or mainly in the manufacture of jam, marmalade, fruit jellies, mincemeat, candied peel, crystallised fruit, potato crisps, table jellies and jelly powders, pickles, sauces and relishes, and in preserving fruit and vegetables by canning, bottling, drying, dehydrating or quick-freezing.

This industry corresponds to minimum list heading 157 in the Standard Industrial Classification.

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IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

**Industrial Classification:** Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

**Specialist producers** normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

**Intermediate products:** For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

**Larger establishments:** The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

**Small firms** are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

**Gross output (production)** is the total value of goods made and other work done during the year; it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

**Net output** is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. 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.

**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. The value of sales is the net selling value, i.e., 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.

**Materials and fuel:** The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes; packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchandising are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

**Stocks:** Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

**Customs and Excise Duty** paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

**Employment:** Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, 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. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

**Working proprietors** are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

**Administrative, technical and clerical employees** include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

**Operatives** include all other classes of employees, i.e., broadly speaking, all manual workers.

**Outworkers** are persons employed by the firm who work on materials supplied by the firm in their own homes.

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

**Capital expenditure** includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

**Symbols used:**

.. for not available

- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

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Industry summary  
Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland 1954	Wales 1954
	1948	1951	1954		
Gross output (production)	£ million 82.8	£ million 110.2	£ million 122.5	£ million 7.70	£ million 0.99
Net output	25.9	31.9	35.7	2.54	0.33
Total stocks and work in progress					
At beginning of year	14.5	21.5	27.6	1.17	0.05
Change during year	+ 2.2	+ 5.1	+ 2.2	+ 0.06	+ 0.01
Capital expenditure less disposals (a)	1.8	2.4	3.0	0.18	0.01
Wages and salaries	11.0	14.3	17.8	1.08	0.20
Total employment (including working proprietors)	Thousands 46.6	Thousands 52.6	Thousands 54.3	Thousands 3.43	Thousands 0.67

(a) Capital expenditure on new building work, plant, machinery and vehicles, (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

## Summary of returns received

TABLE 2

	Unit	Great Britain 1948	United Kingdom	
			1951	1954
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>				
Number of establishments	No.	320	379	330
Total value of sales and work done	£'000	79,658	105,418	116,998
Products on hand for sale	at beginning of year change during year	5,513	8,379	11,637
and work in progress		+ 613	+ 727	+ 2,023
Gross output (production) (a)		78,406	106,145	119,020
Purchases of materials and fuel		54,988	75,836	80,164
Stocks of materials and fuel	at beginning of year change during year	8,215	12,291	15,173
Cost of materials and fuel used		+ 1,473	+ 4,183	+ 108
Payment for work done on materials given out		53,515	71,654	80,056
Payment for transport (b)		392	385	277
		1,865	3,349	3,970
Net output		24,499	30,758	34,718
Average number of employees	{ operatives others	No. 36,406	41,289	42,527
Total employment (d)		7,653(c)	9,295	10,167
Net output per person employed (d)		£ 44,121	50,683	52,768
		555	607	658
Wages and salaries	{ of operatives of others	£'000 7,324	9,658	12,328
Capital expenditure		3,051	4,118	4,986
New building work (e)		201	556	782
Plant and machinery	{ acquisitions (e) disposals	1,177	1,508	1,760
		32	90	71
Vehicles	{ acquisitions (e) disposals	431	478	570
		68	94	161
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS</b>				
Number of returns	No.	120	244(f)	205
Total employment, including working proprietors		795	1,775(f)	1,304

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.

(b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.

(c) Number in week ended September 25, 1948.

(d) Excluding outworkers and including working proprietors.

(e) Excluding expenditure for establishments not yet in production.

(f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

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PRESERVED FRUIT AND VEGETABLES  
Analysis by size, 1954  
Larger establishments in the United Kingdom

TABLE 3

Average number employed (a)	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24	56	1,387	459	843	152	205	57	45	449
25 - 49	75	3,346	1,107	2,150	357	522	171	129	439
50 - 99	70	9,304	2,885	4,113	939	1,075	479	226	569
100 - 199	58	15,075	4,881	7,189	1,386	1,852	711	534	569
200 - 299	29	13,721	3,830	5,947	1,016	1,724	469	356	549
300 - 399	14	7,949	2,320	4,049	661	1,102	282	262	493
400 - 499	4	4,142	1,269	1,377	358	373	168	48	732
500 - 749	14	17,738	5,440	6,379	1,696	1,933	840	555	674
750 and over	10	46,357	12,527	10,480	3,602	3,543	1,808	957	890
Total	330	119,020	34,718	42,527	10,167	12,328	4,986	3,112	658

(a) Excluding outworkers and including working proprietors.

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

Analysis according to specialisation within the industry, 1954  
Larger establishments in the United Kingdom

TABLE 4

	Unit	Specialist producers of			Remainder of the industry	Total
		Jams, marmalade etc.	Fruit (excluding pulp) canned or bottled, and vegetables preserved in salt, brine, or airtight containers, (other than homogenised baby foods, and canned macaroni, spaghetti, etc.)	Pickles, sauces and relishes		
Number of establishments	No.	78	79	63	110	330
Total value of sales and work done	£'000	33,733	35,981	10,047	37,237	116,998
Sales of characteristic products	"	26,258	30,080	7,957		
Products on hand for sale	"	3,231	4,240	496	3,670	11,637
and work in progress	"	+ 277	+ 673	+ 128	+ 945	+ 2,023
Gross output (production)	"	34,009	36,655	10,175	38,181	119,020
Purchases of materials and fuel	"	23,765	25,606	5,677	25,117	80,164
Stocks of materials and fuel	"	4,445	3,666	1,567	5,495	15,173
and fuel	"	- 421	+ 762	- 135	- 98	+ 108
Cost of materials and fuel used	"	24,185	24,544	5,812	25,215	80,056
Payment for work done on materials given out	"					277
Payment for transport	"	1,021	1,674	465	1,087	3,970
Net output	"	8,803	10,137	3,898	11,880	34,718
Average number of employees	{ operatives others	No. 12,103 2,771	13,634 2,767	3,869 1,377	12,921 3,252	42,527 10,167
Total employment (a)	"	14,878	16,427	5,262	16,201	52,768
Net output per person employed (a)	£	592	617	741	733	658
Wages and salaries	{ of operatives of others	£'000 3,413 1,266	3,707 1,312	1,071 708	4,137 1,700	12,328 4,986
Capital expenditure	"					
New building work (b)	"	124	235	102	320	782
Plant and machinery	{ acquisitions (b) disposals	" 263 13	821 29	105 5	571 24	1,760 71
Vehicles	{ acquisitions (b) disposals	" 182 45	153 44	101 34	135 38	570 161

(a) Excluding outworkers and including working proprietors.

(b) Excluding expenditure for establishments not yet in production.

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Sales of the principal products of the industry, including sales of these products by establishments classified to other industries  
Larger establishments in the United Kingdom

TABLE 5

	1951		1954		Entries
	Quantity	Value	Quantity	Value	
	Th.cwt.	£'000	Th.cwt.	£'000	
Preserved fruit					
Marmalade and jams					
Marmalade	1,548	9,012	1,433	8,423	101
Jams (including jams in jelly form)	3,956	23,715	2,954	17,929	122
Unclassified	104	586	-	-	-
Mince-meat	506	3,569	396	2,542	97
Fruit (excluding pulp), preserved without sugar, canned or bottled					
Plums (including damsons and greengages)	20	90	60	239	18
Other kinds	105	721	128	835	43
Unclassified	-	-	35	150	6
Fruit (excluding pulp), canned or bottled in syrup					
Plums (including damsons and greengages)	527	2,539	263	1,008	70
Other kinds	541	4,857	1,152	8,013	110
Unclassified	57	314	-	-	-
Fruit, crystallised, glace or Metz, and drained	29	446	26	361	25
Candied or drained peel	77	675	96	752	33
Other preserved fruit	..	74	-	-	-
Fruit pulp	294	868	224	538	57
Fruit, frozen	38	396	41	419	23
Table jellies					
Tablets	491	4,691	520	4,863	46
Powders, crystals and compounds	120	1,566	76	1,072	48
Potato crisps	263	4,076	308	5,310	59
Vegetables (including olives), preserved in salt or brine	39	232	27	251	17
Vegetables, frozen	..	62	..	46	..
Peas			178	1,622	18
Other	164	1,130	67	632	20
Vegetables, dried or dehydrated (including dried herbs), other than peas, beans, etc., air dried and cleaned	80	895	66	833	15
Vegetables preserved in airtight containers (other than homogenised baby foods and canned macaroni, spaghetti, etc.)					
Beans in tomato sauce	1,790	7,065	2,111	9,767	55
Peas					
Fresh	582	2,877	953	5,151	40
Processed	2,397	8,490	3,025	11,316	56
Rhubarb	71	315	53	168	48
Other descriptions	661	2,425	761	3,532	66
Unclassified	15	89	-	-	-
	..	93	-	-	-

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**PRESERVED FRUIT AND VEGETABLES**  
Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 5 (contd.)

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
	Th.cwt.	£'000	Th.cwt.	£'000	Number
Pickles, sauces and relishes					
Pickles	628	4,751	563	4,286	86
Chutneys	38	451	16	259	32
Salad cream (including mayonnaise)	169	2,192	200	2,739	22
Sandwich spread, sold as such	38	664	32	592	5
Sauces and other relishes	746	6,940	760	7,718	86
Homogenised baby foods	131	1,043	180	1,583	..
Waste products	..	224	..	169	65
Work done for the trade or on commission (a)	..	524	..	487	25
<b>Total</b>		<b>99,473</b>		<b>106,780</b>	<b>..</b>
Sales in other industries (see Table 6)		8,498		7,241	..
Principal products of this industry sold by establishments in the industry		90,975		99,539	302

(a) Amount charged.

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

Larger establishments in the United Kingdom

TABLE 6

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
	Th.cwt.	£'000	Number	
Preserved fruit				
Marmalade and jams (including jams in jelly form)	83	546	22	8I. 9G. 9L
Mincemeat	5	27	6	8I. 8D
Fruit (excluding pulp) preserved without sugar, canned or bottled, other than plums	15	94	..	8E. 9G
Fruit (excluding pulp) canned or bottled in syrup	90	680	11	8E. 8I. 9G. 9L
Fruit, crystallised, glace or Metz, and drained	3	40	8	8D. 8I. 9G
Candied or drained peel	6	53	..	8I. 9G
Fruit, frozen, and fruit pulp	24	127	6	9B. 9G. 9L
Table jellies				
Tablets	247	2,413	18	8I. 9G
Powders, crystals and compounds	51	720	32	8I. 9E. 9G
Potato crisps	3	41	10	8D. 9G
Vegetables, frozen, dried or dehydrated (including dried herbs), other than peas, beans, etc., air dried and cleaned; and homogenised baby foods	13	148	..	9B. 9G
Vegetables preserved in airtight containers (other than homogenised baby foods and canned macaroni, spaghetti, etc.)				
Beans in tomato sauce	241	923	14	8D. 8E. 9G
Peas, processed	61	209	10	8E. 9G
Other	14	51	7	8E. 9G

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**PRESERVED FRUIT AND VEGETABLES**

TABLE 6 (contd.)

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
	Th.cwt.	£'000	Number	
Pickles, sauces and relishes				
Pickles	32	214	10	8E. 9B. 9D. 9G
Chutneys	1	7	..	9G
Salad cream (including mayonnaise), sauces and other relishes	86	901	16	8E. 8F. 9D. 9G
<b>Total</b>		<b>7,241</b>	<b>..</b>	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

**Sales in the industry of other than principal products**

Larger establishments in the United Kingdom

TABLE 7

	1954	
	Quantity	Value
	Th.cwt.	£'000
Fruit curd	160	1,158
Soups, including soup squares and powders	1,325	6,701
Puddings and trifles (other than meat and fish puddings)		
Christmas puddings, whether canned or not	65	654
Sweet puddings, canned	23	214
Preserved meat in tins, glasses, etc.	32	604
Open pack meat products	25	298
Meat extracts and essences	..	185
Other preserved meat, excluding bacon and ham	1	6
Fish in tins, glasses, etc., including marinated herrings; and quick frozen fish	2	41
Meat and fish pastes in tins, glasses, etc.		
Poultry and/or meat	67	542
Fish	2	78
Cocoa, chocolate and sugar confectionery	..	172
Coffee, and coffee and chicory essences	3	92
Starch food powders (including blancmange powder and custard powder, but excluding cornflour)	..	104
Pudding and cake mixtures, bun flours and similar products	32	384
Vinegar, etc.	..	117
Non-brewed (diluted acetic acid) condiment	Th.gal.	
Malt vinegar	22	56
Vinegar, purchased and bottled	Th.cwt.	
Other condiments	33	243
Honey, processed and packed	6	35
Soft drinks, sweetened and unsweetened, in liquid, solid or powder form	..	17
	Th.gal.	
	315	77
	3,013	739
	1,260	585
	Th.cwt.	
	5	151
	..	21
	41	408
	..	995

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TABLE 7 (contd.)

	1954	
	Quantity	Value
	Th.cwt.	£'000
Macaroni, spaghetti, vermicelli, noodles and similar products, canned, in tomato sauce, cheese sauce, etc.	312	1,638
Gravy salt and other preparations for gravy making	5	59
Seasonings, stuffing and forcemeat	1	17
Other food and drink products	..	656
Flavouring essences and dyes for foods, etc.	..	202
Refined vegetable and seed oils	6	41
Other goods	..	96
	..	61
<b>Total</b>	<b>..</b>	<b>17,458</b>

TABLE 8 - Total make of intermediate products  
Larger establishments in the United Kingdom  
This table is not applicable to the industry.

Purchases of materials and fuel, 1954  
Larger establishments in the United Kingdom

TABLE 9

	Quantity	Cost
	Th.cwt.	£'000
<b>Materials</b>		
<b>Vegetables</b>		
Potatoes	1,651	1,129
Other sorts (including rhubarb)		
Fresh	2,332	3,510
Dried	1,795	7,086
Otherwise preserved	210	919
<b>Fresh fruit</b>		
Citrus fruits	385	1,105
Strawberries	259	1,403
Raspberries	96	480
Plums (including damsons and greengages)	498	585
Other	922	3,074
	..	313
<b>Fruit pulp</b>		
Citrus	67	164
Other		
Home produced	417	1,310
Imported	343	1,599
	..	167
<b>Dried fruits</b>		
	137	595
	..	77
<b>Other preserved fruit</b>		
	37	192(a)
	..	40(a)
<b>Apple pectin</b>		
	217	292
	..	403
<b>Sugar (including invert sugar)</b>		
	4,110	11,818
<b>Molasses, treacle and syrup</b>		
	25	65
	..	35
<b>Honey</b>		
	..	180(a)

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TABLE 9 (contd.)

	Quantity	Cost
	Th.cwt.	£'000
<b>Materials (contd.)</b>		
Margarine and compound cooking fat	20	171
Refined vegetable oils	234	1,819
Malt	67	146
	..	26
Gelatine	24	604
Tomato purée	434	2,873
Meat, including poultry and game	..	1,453(a)
Fish	112	276
	Th.gal.	
Vinegar (malt, wine and spirit)	4,921	513
<b>Packing materials</b>		
	Th.cwt.	
Tinplate	632	2,448
Tin containers bought as such	1,311	7,026
	..	2,967
Glass bottles and jars	..	5,197
Cardboard boxes, cartons and fibreboard packing cases	630	2,438
	..	1,707
All other packing materials	..	4,137
All other purchased materials	..	7,519
<b>Fuel and electricity</b>		
	Th.tons	
Coal	220	913
Coke	10	55
	..	6
Liquid fuels (including creosote/pitch mixtures)		
For use in internal combustion engines	Th.gal.	
Motor spirit (petrol) for use in road vehicles and derv. fuel	2,970	581
Other	78	9
For burning in furnaces, boilers, kilns, etc.	3,753	157
Gas purchased	Th.therms	
	3,798	219
Electricity purchased (b)	Th.kWh.	
From Electricity Boards	61,360	314
From other sources, including departments of the same firms	..	44
All other purchased fuel	448	2
	..	6
<b>Total cost</b>		<b>80,164</b>

(a) So far as recorded separately.

(b) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 2,488 Th.kWh.

Average number of employees and wages, salaries and superannuation payments (a)

Larger establishments in the United Kingdom

	1951	1954
	Number	Number
<b>Average number of employees</b>		
Operatives	41,289	42,527
Administrative, technical and clerical employees	9,295	10,167
<b>Total</b>	<b>50,584</b>	<b>52,694</b>
<b>Wages and salaries paid to</b>		
	£'000	£'000
Operatives	9,658	12,328
Administrative, technical and clerical employees	4,118	4,986
<b>Total</b>	<b>13,776</b>	<b>17,314</b>

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TABLE 10 (contd.)

	1951	1954
Wages and salaries per head	£	£
Operatives	234	290
Administrative, technical and clerical employees	443	490
Superannuation and other pension funds for employees and dependents (b)		£'000
Employers' contributions	..	512
Employees covered	..	Number 21,286
Pension, etc. payments to former employees and dependents (b)	..	£'000 55

(a) The following persons, not included above, were also employed by larger establishments in this industry ('other workers' includes, for example, employees engaged in merchanting). The number of outworkers employed and payments made to them are also shown.

	United Kingdom	
	1951	1954
Canteen workers	Number	Number
Males	19	39
Females	605	662
Total	624	701
Other workers		
Males	370	635
Females	537	605
Total	907	1,240
Total excluded employees	1,531	1,941
Outworkers (c)		
Males	5	16
Females	312	233
Total	317	249
Payments to outworkers	£'000 18	£'000 19

(b) The figures given relate to larger establishments in Great Britain only.

(c) There were no outworkers employed in Northern Ireland in 1951 or 1954.

Employment in a specified week (a)  
Larger establishments in the United Kingdom

	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	90	9	99	70	4	74
Operatives	13,107	30,615	43,722	13,997	30,985	44,982
Administrative, technical and clerical employees	5,616	3,797	9,413	6,018	4,311	10,329
Total employees	18,723	34,412	53,135	20,015	35,296	55,311

(a) Week ended September 22, 1951, or October 30, 1954.

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