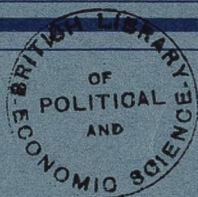


BOARD OF TRADE

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*The Report on the  
Census of Production  
for 1954*



Volume 8: Industry I

COCOA, CHOCOLATE AND SUGAR CONFECTIONERY

*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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1957

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# The Report on the Census of Production for 1954

VOLUME 8 INDUSTRY I

## COCOA, CHOCOLATE AND SUGAR CONFECTIONERY

THIS REPORT on the Cocoa, Chocolate and Sugar Confectionery Industry relates to establishments engaged wholly or mainly in the manufacture of cocoa butter and powder, drinking chocolate and chocolate confectionery of all kinds, boiled sweets, toffee, caramels, marzipan, licorice, chewing gum and all other types of sweets.

This industry corresponds to minimum list heading 156 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.

## Industry summary

Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland 1954	Wales 1954
	1948	1951	1954		
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	94.4	168.2	248.7	12.65	1.86
Net output	31.4	48.5	81.7	4.31	0.85
Total stocks and work in progress					
At beginning of year	18.0	30.8	43.9	1.73	0.14
Change during year	+ 4.4	+ 16.1	+ 20.4	+ 0.25	+ 0.04
Capital expenditure less disposals (a)	2.0	4.4	8.7	0.42	0.11
Wages and salaries	15.0	22.9	35.4	1.93	0.44
Total employment (including working proprietors)	Thousands	Thousands	Thousands	Thousands	Thousands
	56.3	74.8	96.8	6.47	1.28

(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.	313	368	386
Total value of sales and work done	£'000	90,096	159,632	238,233
Products on hand for sale	{	5,629	8,835	15,596
and work in progress				
Gross output (production) (a)	"	90,262	163,057	241,252
Customs and Excise drawbacks and allowances received	"	-	742	669
Purchases of materials and fuel	"	62,912	125,243	173,565
Stocks of materials and fuel	{	11,550	21,027	26,982
at beginning of year				
Cost of materials and fuel used	"	60,044	113,022	156,835
Customs and Excise duties paid	"	-	693	1,006
Payment for work done on materials given out	"	180	454	284
Payment for transport (b)	"	1,210	2,650	4,535
Net output	"	30,037	46,981	79,261
Average number of employees	{	43,615	60,260	79,365
operatives				
Total employment (d)	"	53,859	72,545	93,915
Net output per person employed (d)	"	£ 558	£ 648	£ 844
Wages and salaries	{	£'000	9,715	15,634
of operatives				
of others	"			9,222
Capital expenditure	"			
New building work (e)	"	298	786	1,729
Plant and machinery	{	1,595	3,183	6,164
acquisitions (e)				
disposals	"	275	503	993
Vehicles	{	55	96	234
acquisitions (e)				
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS</b>				
Number of returns	No.	414	412 (f)	409
Total employment, including working proprietors	"	2,154	2,159 (f)	2,297

(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 in establishments not yet in production.

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

## 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 (c)	77	2,408	907	1,110	233	298	125	130	668
25 - 49	98	6,440	2,545	2,721	590	715	336	350	763
50 - 99	74	9,926	4,160	4,224	759	1,138	565	484	832
100 - 199	53	18,384	6,384	6,241	1,351	1,768	843	705	841
200 - 299	22	15,851	6,419	4,362	916	1,371	656	884	1,216
300 - 399	18	15,622	6,155	5,384	967	1,606	728	927	969
400 - 499	5	4,445	1,834	1,895	288	526	226	152	840
500 - 749	14	19,213	6,522	6,982	1,243	1,954	702	1,082	793
750 - 999	9	16,888	6,090	6,827	1,121	1,937	698	679	766
1,000 - 1,999	9	30,536	10,069	11,645	1,861	3,548	1,179	1,369	746
2,000 and over	7	101,539	28,175	27,974	5,163	10,262	3,164	2,123	850
Total	386	241,252	79,261	79,365	14,492	25,122	9,222	8,887	844

(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.

(c) Including a small number of establishments with fewer than 11 persons employed, particulars of which were included with those for larger establishments on a single return.

## 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
		Cocoa and chocolate	Sugar confectionery		
Number of establishments	No.	83	279	24	386
Total value of sales and work done	£'000	148,716	82,520	6,997	238,233
Sales of characteristic products	"	130,065	70,453		
Products on hand for sale	"	13,363	1,939	293	15,596
and work in progress	"	+ 2,484	+ 462	+ 73	+ 3,019
Gross output (production)	"	151,201	82,982	7,070	241,252
Customs and Excise drawbacks and allowances received	"	483	(a)	(a)	669
Purchases of materials and fuel	"	121,749	47,438	4,377	173,565
Stocks of materials and fuel	"	20,198	6,195	590	26,982
change during year	"	+ 14,829	+ 1,657	+ 244	+16,730
Cost of materials and fuel used	"	106,920	45,782	4,133	156,835
Customs and Excise duties paid	"	943	(a)	(a)	1,006
Payment for work done on materials given out	"	2,843	1,757	220	4,820
Payment for transport	"				284
Net output	"	40,978	35,584	2,700	79,261
Average number of employees	No.	41,498	35,506	2,361	79,365
of others	"	7,855	6,052	585	14,492
Total employment (b)	"	49,359	41,610	2,946	93,915
Net output per person employed (b)	£	830	855	916	844
Wages and salaries	£'000	14,568	9,708	847	25,122
of others	"	4,769	4,015	438	9,222
Capital expenditure	"				
New building work (c)	"	765	883	80	1,729
Plant and machinery	"	3,215	2,717	233	6,164
disposals	"	111	57	16	183
Vehicles	"	213	724	56	993
disposals	"	93	126	15	234

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

(b) Excluding outworkers and including working proprietors.

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

## 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		
	Quantity	Value	Quantity	Value	Entries
	Th.cwt.	£'000	Th.cwt.	£'000	Number
Cocoa preparations					
Cocoa powder					
Proprietary cocoa powder packed for sale as such to the public	251	3,447	192	3,249	11
Other cocoa powder sold in bulk	185	1,711			
Drinking chocolate (including chocolate in flake or other forms intended for drinking purposes)	116	1,193	294	3,723	15
Chocolate intended for further manufacturing purposes sold as such (block, couverture, bakers' covering compounds, granulettes, etc.)	666	10,622	817	14,324	47
Solid milk or blended chocolate bars or blocks with or without fruit or nuts			1,623	33,308	38
Solid plain chocolate bars or blocks with or without fruit or nuts	1,447	27,083	125	2,561	27
Filled bars, blocks and other chocolate count lines (including enrobed lines) with hard, soft or cereal centres (excluding chocolate biscuits sold as 'biscuits')	1,054	16,075	1,645	26,253	62
Chocolate novelties and composite packs	45	1,116	155	3,768	39
Chocolate assortments and straight lines whether pre-packed or not	1,945	35,152	2,256	46,765	107
Chocolate milk crumb, sold as such	136	1,144	476	3,968	5
Other and unclassified cocoa preparations	80	797	19	253	14
			..	733	
Total cocoa preparations	5,924	98,340	..	138,906	..
Cocoa cake (residue)	..	407	163	114	9
Cocoa husks and shells	..		..		..
Cocoa butter, sold as such	90	2,691	59	2,315	11
Total cocoa products	..	101,438	..	141,334	..
Sugar confectionery (except chocolate confectionery)					
Boiled sugars	1,867	18,654	2,933	31,261	224
Toffee and caramels, not chocolate covered	1,213	11,496	1,758	19,943	132
Licorice confectionery	281	2,106	582	4,829	21
Soft goods (including almond paste, marzipan, fondant, cream paste and turkish delight)	728	6,682	946	8,386	109
Pastilles, gums and jellies	360	3,610	625	7,418	61
Other non-medicated sugar confectionery including chewing gum and panned goods and lozenges	520	6,001	1,035	13,385	67
Total sugar confectionery	4,969	48,549	7,879	85,222	..
Confectioners novelties and sundries (edible) including cake decorations	..	645	..	970	36
Waste products	..	385	..	532	79
Work done for the trade or on commission (a)		1,374		887	16
Total		152,390		228,946	..
Sales in other industries (see Table 6)		2,755		3,711	..
Principal products of this industry sold by establishments in the industry		149,635		225,235	354

(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	
Cocoa preparations				
Chocolate intended for further manufacturing purposes sold as such (block, couverture, bakers' covering compounds, granulettes, etc.)	35	627	6	8C, 8F, 9G
Filled bars, blocks and other chocolate count lines (including enrobed lines) with hard, soft or cereal centres (excluding chocolate biscuits sold as 'biscuits')	4	53	..	8B, 8C, 8J
Other and unclassified chocolate confectionery and cocoa preparations	5	75	6	
	..	895		
Total cocoa preparations	..	1,651	..	
Sugar confectionery (except chocolate confectionery)				
Boiled sugars	38	453	10	2F, 8C, 8G, 8J
Soft goods (including almond paste, marzipan, fondant, cream paste and turkish delight)	166	967	25	8C, 8H, 8J, 9G
Toffee and caramels, not chocolate covered; other non-medicated sugar confectionery including chewing gum and panned goods and lozenges	55	434	7	8B, 8C, 8J, 9G
Total sugar confectionery	259	1,853	..	
Confectioners' novelties and sundries (edible) including cake decorations	..	207	11	2E, 8G, 8H, 8J
Total		3,711	..	

(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
Table jellies (squares, powders, crystals and compounds)	181	1,725
Preserved fruit	75	659
Bread improvers, cake extender and similar products	29	118
Padding and cake mixtures, bun flours and similar products	9	80
Farinaceous preparations for use as food (excluding proprietary food drinks)	17	134
	..	172
Fruit curd and honey	26	183
Nuts, shelled, ground or otherwise prepared (including desiccated coconut)	53	1,203
Vinegar, pepper, ground spices and seasonings, stuffings and forcemeat	8	45
	19	87
Soft drinks		
Other food and drink products (including patent proprietary foods and drinks)	..	5,779
Sugar, ground and otherwise prepared for icing, fondants, etc.	149	550
Medicated confectionery (including that containing a therapeutic dose and the like)	..	788
	Th.lb.	
Theobromine	365	203
Chemical manufactures and products	..	47
Oils, fats and greases	..	19
Manufactures of paper and cardboard	..	263
Wooden toys, plastic fancy goods and Christmas stockings	..	25
Other goods	..	919
Total		12,998

(60418)

TABLE 8 - Total make of intermediate products

Larger establishments in the United Kingdom

In 1954, 640,000 cwt. of cocoa butter were made in this industry as compared with 488,000 cwt. in 1951. No output of cocoa butter was recorded by establishments classified to other industries.

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

TABLE 9

	Quantity	Cost
	Th.cwt.	£'000
Materials		
Cocoa beans	2,756	50,387
Chocolate milk crumb	963	8,418
Chocolate couverture and block chocolate	224	3,978
	Th.gal.	
Liquid milk	38,721	5,495
	Th.cwt.	
Condensed milk		
Sweetened, including blockmilk	461	1,980
Unsweetened	9	30
Milk powders		
Full cream	118	987
Skimmed or separated and buttermilk and whey	81	282
Eggs (liquid, dried and powdered and egg albumen)	6	240
Cocoa butter	310	12,115
Cow butter	68	1,194
Margarine and compound cooking fats	28	216
Refined vegetable oils	554	4,575
Sugar	7,709	22,669
Glucose	2,614	7,361
Syrup and treacle	200	456
Gelatine	66	1,182
Gum arabic	102	527
	..	63
Fruit		
Dried (including candied or dried peel)	62	300
Other preserved fruit	25	206
Jam, fruit curds and fruit pulp	106	393
Ginger	19	193
Nuts	583	8,815
Starch	96	244
Flour	324	606
Malt extract	31	153
Licorice	18	193
	Th.lb.	
Essential oils	1,075	1,496
	Th.cwt.	
Packing materials		
Transparent cellulose wrappings in sheets, rolls or bags	98	2,777
	..	654
Paper for wrapping or packing	260	4,000
	..	1,285
Cardboard boxes, cartons and fibreboard packing cases	635	3,927
	..	3,276

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TABLE 9 (contd.)

	Quantity	Cost
	Th.cwt.	£'000
Materials (contd.)		
Packing materials (contd.)		
Paper-board for packaging bought as such	334	1,450
Tinplate	57	260
Tin containers bought as such	..	31
Glass bottles and jars	..	2,300
	..	537
	Th.cu.ft. of timber	
Wooden crates and materials for making and repairing wooden crates	235	149
All other packing materials	..	102
Replacement parts for machinery, plant and vehicles and consumable tools bought as replacement	..	3,374
All other purchased materials	..	3,043
	..	8,578
	Th.tons	
Fuel and electricity		
Coal	296	1,073
Coke	18	96
Liquid fuel (including creosote/pitch mixtures)		
For use in internal combustion engines	Th.gal.	
Motor spirit (petrol) for use in road vehicles and derv. fuel	2,265	444
Other	28	2
	..	2
For burning in furnaces, boilers, kilns, etc.	3,394	141
	..	42
	Th.therms	
Gas purchased		
From Gas Boards and from other sources, including other departments of the same firms	3,297	201
	..	24
	Th.kWh.	
Electricity purchased		
From Electricity Boards and from other sources, including other departments of the same firms	190,094	968
All other purchased fuel		75
Total cost		173,565

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

Larger establishments in the United Kingdom

TABLE 10

	1951	1954
	Number	Number
Average number of employees		
Operatives	80,260	79,365
Administrative, technical and clerical employees	12,223	14,492
Total	72,483	93,857
	£'000	£'000
Wages and salaries paid to		
Operatives	15,634	25,122
Administrative, technical and clerical employees	6,533	9,222
Total	22,167	34,345

TABLE 10 (contd.)

	£	£
Wages and salaries per head		
Operatives	259	317
Administrative, technical and clerical employees	534	636
Superannuation and other pension funds to employees and dependents (b)		£'000
Employers' contributions	..	1,036
		Number
Employees covered	..	38,367
		£'000
Pensions, etc. payments to former employees and dependents (b)	..	172

(a) The following persons, not included above, were also employed by larger establishments in this industry ('other workers' includes, for example, employees engaged in merchandising). Payments to outworkers are also shown:

	1951	1954
	Number	Number
Canteen workers		
Male	56	64
Female	773	891
Total	829	955
Other workers		
Male	523	469
Female	504	718
Total	1,027	1,187
Total excluded employees	1,856	2,142
Outworkers		
Male	1	1
Female	194	100
Total	195	101
	£'000	£'000
Payments to outworkers	17	11

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

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

TABLE 11

	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	58	4	62	48	10	58
Operatives	21,590	39,268	60,858	30,334	56,877	87,211
Administrative, technical and clerical employees	6,489	5,838	12,327	7,782	7,227	15,009
Total employees	28,079	45,106	73,185	38,116	64,104	102,220

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

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