



BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 9

Trade E

Starch

*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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In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s 0d. NET

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* Not applicable to this trade

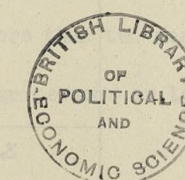
STARCH TRADE

THIS REPORT on the Starch Trade relates to establishments engaged wholly or mainly in the manufacture of starch, cornflour, dextrine and laundry blue.

This trade corresponds to minimum list heading 162 (5) in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in 1937 or 1935.

The large quantities of maize starch and by-products produced by this trade in 1948 for the Ministry of Food appear in the report as amounts charged for work done and not at selling values; the corresponding amounts of materials supplied by the Ministry of Food are, therefore, excluded.



STARCH TRADE

Summary

Larger establishments

TABLE 1

	1948	1937	1935
Gross output (production)	£'000 3,762	£'000 1,502	£'000 1,219
Cost of materials and fuel used	2,339	815	621
Payment for work done on materials given out	-	-	-
Net output	1,423	687	598
Wages and salaries of persons employed	836	..	..
Average number of persons employed (a)	No. 2,543	No. 1,978	No. 1,778
Net output per person employed	£ 560	£ 347	£ 336
Stocks at end of year	£'000		
Finished products and work in progress	225	..	..
Materials and fuel	408	..	..
Number of establishments	No. 19	No. ..	No. 13

(a) For an estimate of the total number of persons employed in this trade see Table 3.

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

	1948	1937	1935
Output of firms in this trade	£'000	£'000	£'000
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	3,443	1,203	1,037
Other output (see Table 10)	426	299	182
Adjustment for changes in stocks and work in progress (see Table 14)	- 7	..	..
Less payment for transport by other firms	3,863 101	1,502	1,219
Gross output (production)	3,762	1,502	1,219
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	2,364	815	621
Adjustment for changes in stocks (see Table 14)	- 25		
Materials and fuel used	2,339	815	621

Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	9
Average number of persons employed (a)	
Males	44
Females	16
Total	60

(a) Including working proprietors.

Estimated average employment, 1948

All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	2,543
Employing on average ten persons or less (b)	60
	2,603
Estimated average employment in firms not making satisfactory returns	13
Estimated average employment in all firms	2,616

(a) See Tables 1 and 15.

(b) See Table 2.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
11-49	No. 9	£'000 782	£'000 180	No. 294	£'000 71	£'000 34	£'000 105	£ 614
50-199	6	945	340	724	127	92	218	470
200 and over	4	2,035	902	1,525	353	160	512	592
Total	19	3,762	1,423	2,543	551	286	836	560

Analysis by standard region, 1948

Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
England	No.	£'000	£'000		No.	£'000	£'000	£'000
North Western	9	891	205	14.4	443	96	41	137
East and West Ridings of Yorkshire; Eastern; and London and South Eastern	7	1,300	531	37.3	1,018	177	157	334
Total England	16	2,191	736	51.7	1,459	272	199	471
Wales	-	-	-	-	-	-	-	-
Scotland	3	1,571	687	48.3	1,084	278	87	365
Great Britain	19	3,762	1,423	100.0	2,543	551	286	836

TABLE 6 - Analysis according to specialisation within the trade, 1948:

Larger establishments in Great Britain

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products

Larger establishments

This table is not applicable to the trade

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

Larger establishments

TABLE 8

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Starch	Th. cwts.	£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000
Maize starch	114.6	572	16	495.5	535	459.9	460
Rice starch, not for use as food	68.0	329	5	200.9	517	190.7	523(a)
Other kinds, not elsewhere specified							
For use as food	74.3	223	..	74.9	60	73.1	63
Not for use as food	33.7	128	5				
Dextrine (including soluble starch, thin boiling starch and "British gum") and starch wholly or partly dextrinised or gelatinised	527.7	1,579	11	277.2	236	173.0	135(b)
Laundry blue	64.8	503	7	133.0	546	130.5	554
Waste products	..	8	7	..	24(c)	..	7(c)
Work done for the trade or on commission							
Maize starch manufactured for the Ministry of Food	897.7	633(d)	..	-	-	-	-
Other		36(d)	7		(e)		(e)
Total		4,012	..		1,918		1,742
Less sales (or production) in other trades (see Table 9)		568	..		715		705
Total principal products of this trade sold or made by establishments in the trade		3,443	17		1,203		1,037

- (a) Described as "Rice starch". No output of rice starch for use as food was recorded for 1937 or 1948.
 (b) Described as "Dextrine".
 (c) Described as "Farinaceous by-products and waste".
 (d) Amount charged.
 (e) Not recorded separately.

Sales (or production) of principal products of the trade
by establishments classified to other trades

Larger establishments

TABLE 9

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000
Starch							
Maize starch	20.0	53	..	4.4	12	3.9	10
Rice starch, not for use as food	-	-	-	70.9	242	73.4	254
Other kinds, not elsewhere specified							
For use as food	74.3	223	..	2.6	4	1.6	3
Not for use as food	9.7	22	..				
Dextrine (including soluble starch, thin boiling starch and "British gum") and starch wholly or partly dextrinised or gelatinised	65.3	196	..	42.3	36	20.4	17
Laundry blue	8.9	73	..	104.5	421	99.9	421
Work done for the trade or on commission		1(a)	..		-		-
Total		568	..		715		705

(a) Amount charged.

Sales (or production) in the trade of other
than principal products

Larger establishments

TABLE 10

	1948 Sales		1937 Production		1935 Production	
	Quantity	Value	Quantity	Value	Quantity	Value
		£'000		£'000		£'000
Washing materials, other than soap	..	15	..	4	..	5
Soap	Th. cwts. 2.9	12	-	-	-	-
Adhesives	12.8	52	..	3	..	9
Feeding stuffs for animals	-	-	Th. tons 16.3	116	Th. tons 12.3	63
Preserved foods	46.0	233	Th. cwts. 25.9	78	Th. cwts. 11.3	36
Dyes and dye intermediates	6.9	67	1.7	35	2.0	42
Other goods	..	32	..	63	..	27
Work done		16(a)		-		-
Total		426		299		182

(a) Amount charged.

Analysis of sales, 1948

Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control	889	27.9
Sales to independent buyers		
Manufacturers, repairers, builders, mines, public utilities and transport and other productive undertakings	1,102	34.6
Wholesalers, retailers, etc.		
Wholesalers, merchants and other agents for resale	522	16.4
Retailers, including multiple shops, chain stores, caterers and N.A.A.F.I., for resale	510	16.0
Unclassified	102	3.2
Other	61	1.9
Total sales to independent buyers	2,297	72.1
Total	3,187	100.0

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

TABLE 12

		Production (b) (c)	Exports	Retained imports
		Th. cwts.	Th. cwts.	Th. cwts.
Starch				
Maize	(1948 1937)	1,012.2(d) 495.5	25.1 48.1	1,130.9 1,899.2
Other sorts	(1948 1937)	176.0 275.8	6.6 18.2	1,087.9 3,596.8
Dextrine (including soluble starch, thin boiling starch and "British gum") and starch wholly or partly dextrinised or gelatinised	(1948 1937)	527.7 277.2	36.5 13.9	241.8 445.5
Laundry blue	(1948 1937)	64.8 132.0	48.8 49.3	.. -

(a) Figures of sales (or production) refer only to larger establishments in the relevant years. 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 1948 and production for sale in 1937.

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

(d) Including production for the Ministry of Food.

Purchased materials and fuel

Larger establishments

TABLE 13

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000
Materials						
Rice	43.0	99	189.3	58	..	(a)
Packing materials	..	300	..	112	..	(a)
Starch	587.1	1,307	..	(a)	..	(a)
Caustic soda (in terms of 76°E.)	3.4	3	..	(a)	..	(a)
Sulphur	3.4	2	..	(a)	..	(a)
All other purchased materials	..	498	..	595(b)	..	590(c)
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	30.3	88	29.0	32	23.5	20
Coke	3.8	14	..	(a)	1.2	1
Electricity purchased (d)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	8,018	36	4,344	12	3,104	10
From other sources	-	-	-	-	-	-
Electricity obtained from other works under the same ownership	-	-	-	-	-	-
Motor spirit (petrol) and deriv. fuel	Th. galls.					
Used for road vehicles	41	4	..	6	..	(a)
Used for other power purposes	-	-	..	6	..	(a)
Gas purchased	Th. therms					
From public supply	144	6	..	6	..	(a)
From other sources	-	-	..	6	..	(a)
Gas obtained from other works under the same ownership	-	-	..	6	..	(a)
All other purchased fuel	..	7	..	6	..	(a)
Total		2,364		815		621

(a) Not recorded separately.

(b) Including £132,000 of unclassified materials.

(c) Including fuel not specified separately.

(d) The total quantity of electricity consumed in 1948 was 10,964,000 B.T. units, including 2,947,000 generated in the same works.

Stocks of finished products and work in progress and stocks of materials and fuel, 1948

Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	Th. cwts.	£'000
Finished products				
Starch	23	80	15	54
Other	..	105	..	129
Work in progress		47		43
Total finished products and work in progress		232		225
Materials and fuel		383		408

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males									
Under 18	9	36	9	4	24	7	13	60	16
All ages	1,264	1,032	911	371	315	263	1,635	1,347	1,174
Females									
Under 18	133	75	65	36	17	6	169	92	71
All ages	680	529	523	226	102	81	906	631	604
Total									
Under 18	142	111	74	40	41	13	182	152	87
All ages	1,944	1,561	1,434	597(c)	417	344	2,541 (c) (d) (e)	1,978	1,778
Total remuneration	£'000			£'000			£'000		
	551	..	..	286	..	..	836	..	..

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers 1 male 29 females
Other workers 39 males 9 females

(b) Number at September 25, 1948, October 16, 1937, and October 12, 1935.

(c) There were, in addition, 2 male working proprietors in 1948. Working proprietors are included in the 1937 and 1935 figures.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £19,000.

(e) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	23	
Maintenance and repair of firms' buildings, but not plant	52	
Research work not directly connected with current production however charged	-	5

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year						
		Amount paid	Percentage of annual remuneration paid in					Year
			First quarter	Second quarter	Third quarter	Fourth quarter	Year	
Wages and salaries of	£'000	£'000						
Operatives	551	161	25.4	24.2	26.5	23.8	100.0	
Administrative, technical and clerical employees	286	148	23.4	23.6	28.6	24.4	100.0	
Total	836	309	24.4	23.9	27.5	24.1	100.0	

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948

Larger establishments in Great Britain

The total amount paid by larger establishments in Great Britain for work done on materials given out was less than £500.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	9
Of plant, machinery and vehicles	39
Unclassified	86
Hire of plant, machinery and vehicles	2
Advertising and market research	66
Payments made for research work	1
Postage, telephone, telegrams and cables	10
Commercial insurance premiums	13
Rates (excluding water rates) payable in the year	5

Plant, machinery and vehicles acquired and disposed of, 1948

Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
Plant and machinery	£'000 73	£'000 1	£'000 2
Vehicles	7	2	4
Total	81	3	6

Capital expenditure on building work and changes in occupation of buildings and land, 1948

Larger establishments in Great Britain

TABLE 20

1. Capital expenditure on building work (a)	£'000 42
2. Existing buildings and land acquired	-
Total of headings 1 and 2	42
3. Existing buildings and land relinquished	-
4. Headings 1 and 2 less heading 3	42

(a) Excluding site value.

STARCH TRADE

1948

Summary

Larger establishments

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

TABLE 21

	England	Scotland	Great Britain
Gross output (production)	£'000 2,191	£'000 1,571	£'000 3,762
Cost of materials and fuel used	1,455	884	2,339
Payment for work done on materials given out	-	-	-
Net output	736	687	1,423
Wages and salaries of persons employed	471	365	836
Average number of persons employed	No. 1,459	No. 1,084	No. 2,543
Net output per person employed	£ 504	£ 634	£ 560
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	155	70	225
Materials and fuel	£ 276	£ 131	£ 408
Number of establishments	No. 18	No. 3	No. 19

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

	England	Scotland	Great Britain
Output of firms in this trade	£'000	£'000	£'000
Total value of sales (see Table 23)	2,266	1,604	3,870
Adjustment for changes in stocks and work in progress	- 35	+ 28	- 7
	2,231	1,632	3,863
Less payment for transport by other firms	40	61	101
Gross output (production)	2,191	1,571	3,762
Materials and fuel used by firms in this trade			
Purchases (see Table 24)	1,472	892	2,364
Adjustment for changes in stocks	- 17	- 8	- 25
Materials and fuel used	1,455	884	2,339

TABLE 22 - Summary: Small firms

See Table 2 - There were no small firms for Wales or Scotland in the register for this trade.

Sales in the trade

Larger establishments

TABLE 23

	England		Scotland		Great Britain	
	Quantity Th. cwts.	Value £'000	Quantity Th. cwts.	Value £'000	Quantity Th. cwts.	Value £'000
Principal products						
Starch						
Maize starch	..	(a)	..	(a)	94.6	520
Rice starch, not for use as food	68.0	329	-	-	68.0	329
Other kinds, not elsewhere specified, not for use as food	24.0	106	-	-	24.0	106
Dextrine (including soluble starch, thin boiling starch and "British gum") and starch wholly or partly dextrinised or gelatinised	..	(a)	..	(a)	462.4	1,383
Laundry blue	56.0	430	-	-	56.0	430
Waste products	..	8	-	-	..	8
Work done for the trade or on commission						
Maize starch manufactured for the Ministry of Food	-	-	897.7	633(b)	897.7	633(b)
Other		(a)		(a)		35(b)
Total principal products		2,062		1,381		3,443
Other output						
Washing materials, other than soap	..	15	-	-	..	15
Soap	2.9	12	-	-	2.9	12
Adhesives	12.8	52	-	-	12.8	52
Preserved foods	7.0	18	38.9	216	46.0	233
Dyes and dye intermediates	6.9	67	-	-	6.9	67
Other goods	..	32	-	-	..	32
Work done (b)		9		6		16
Total		2,266		1,604		3,870

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

(b) Amount charged.

FOOD, DRINK AND TOBACCO COUNTRY TABLES
Purchased materials and fuel
Larger establishments

TABLE 24

	England		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000
Materials						
Rice	43.0	99	-	-	43.0	99
Packing materials	..	(a)	..	(a)	..	300
Starch	..	(a)	..	(a)	587.1	1,307
Caustic soda (in terms of 76°E.)	2.2	2	1.3	1	3.4	3
Sulphur	-	-	3.4	2	3.4	2
All other purchased materials	..	322	..	176	..	498
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	4.6	13	25.8	75	30.3	88
Coke	..	(a)	..	(a)	3.8	14
Electricity purchased (b)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	1,948	10	6,070	26	8,018	36
From other sources	-	-	-	-	-	-
Electricity obtained from other works under the same ownership	-	-	-	-	-	-
Motor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	..	(a)	..	(a)	41	4
Used for other power purposes	-	-	-	-	-	-
Gas purchased	Th. therms		Th. therms		Th. therms	
From public supply	..	(a)	..	(a)	144	6
From other sources	-	-	-	-	-	-
Gas obtained from other works under the same ownership	-	-	-	-	-	-
All other purchased fuel	..	7	..	-	..	7
Total		1,472		892		2,364

- (a) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given.
(b) The total quantity of electricity consumed in Great Britain was 10,984,000 B.T. units, including 2,947,000 generated in the same works. Owing to the risk of disclosure relating to underhand firms, separate figures for England and Scotland cannot be given.

Employment and remuneration
Larger establishments

TABLE 25

	England			Scotland			Great Britain		
	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total
Males									
Under 18	7	2	9	2	2	4	9	4	13
All ages	574	250	824	690	121	811	1,264	371	1,635
Females									
Under 18	117	24	141	16	12	28	133	36	169
All ages	481	152	633	199	74	273	680	226	906
Total									
Under 18	124	26	150	18	14	32	142	40	182
All ages	1,055	402 (b)	1,457 (b) (c)	889	195	1,084 (c)	1,944	597 (b)	2,541 (b) (c)
	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Total remuneration	272	199	471	278	87	365	551	286	836

(a) Number at September 25, 1948.

(b) There were, in addition, 2 male working proprietors, both in England.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £19,000; £10,000 for England and £9,000 for Scotland.

Monthly index of employment of operatives: Larger establishments
(average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a) (b)		Month	Monthly index (a) (b)	
	England	Great Britain		England	Great Britain
1948			1948		
January	121.5	121.5	August	87.8	87.8
February	116.5	116.5	September	96.3	96.3
March	103.8	103.8	October	92.6	92.6
April	105.7	105.7	November	92.2	92.2
May	101.1	101.1	December	90.6	90.6
June	97.4	97.4	Percentage employ- ment in this trade covered by the index	61.6	33.4
July	94.2	94.2			

- (a) The index numbers are calculated from the number of operatives employed for one week in each month returned by larger establishments that made returns for the calendar year 1948.
(b) No returns for the calendar year 1948 were received from the larger establishments in Scotland.

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