



BOARD OF TRADE

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on the
CENSUS OF PRODUCTION
FOR 1948

Volume 3

Trade E

Tinplate

*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 Od. NET

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* Not applicable to this trade

TINPLATE TRADE

THIS REPORT of the Tinplate Trade relates to establishments engaged wholly or mainly in the rolling from the bar or slab of tin, terne and black-plate and the production of tinned sheets and terne sheets.

This trade corresponds to minimum list heading 43(2) in the Standard Industrial Classification.

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

METAL MANUFACTURE
TINPLATE TRADE
Summary
Larger establishments

TABLE 1

	1948	1937	1935
Gross output (production)	£'000 33,981	£'000 21,926	£'000 13,787
Cost of materials and fuel used	23,800	14,946	8,910
Payment for work done on materials given out	26	2	2
Net output	10,155	6,978	4,875
Wages and salaries of persons employed	5,818 No.	.. No.	.. No.
Average number of persons employed	16,537 £	26,235 £	21,845 £
Net output per person employed	614	266	223
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	1,887	..	..
Materials and Fuel	2,647 No.	.. No.	.. No.
Number of establishments	41	..	67

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)	32,777	20,897	13,234
Other output (see Table 10)	1,146	1,029	553
Adjustment for changes in stocks and work in progress (see Table 14)	+ 248	..	..
	34,171	21,926	13,787
Less payment for transport by other firms	190		
Gross output (production)	33,981	21,926	13,787
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	24,178	14,946	8,910
Adjustment for changes in stocks (see Table 14)	- 378		
Materials and fuel used	23,800	14,946	8,910

TABLE 2- Summary, 1948: Small firms in Great Britain

TABLE 3 - Estimated average employment, 1948

All firms in Great Britain

There were no small firms in the register for this trade. For the total average employment in all firms, see Tables 1 and 15.

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	
25-199	No. 9	£'000 2,483	£'000 663	No. 1,303	£'000 431	£'000 50	£'000 481	£ 509
200-299	9	3,956	1,064	2,257	699	79	778	471
300-399	4	1,943	560	1,281	405	32	437	438
400 and over	19	25,619	7,868	11,696	3,709	412	4,121	673
Total	41	33,981	10,155	16,537	5,244	574	5,818	614

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
London and South Eastern; South Western; and Midland	5	2,386	586	5.8	1,092	351	53	404
Wales	36	31,595	9,569	94.2	15,445	4,893	521	5,414
Scotland	-	-	-	-	-	-	-	-
Great Britain	41	33,981	10,155	100.0	16,537	5,244	574	5,818

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

Larger establishments in Great Britain

No specialisation within this trade was distinguished.

Total make of intermediate products

Larger establishments

TABLE 7

	Returned in this trade				Returned in all trades		
	1948		1937	1935	1948		1935
	Quantity	Entries	Quantity		Quantity	Entries	Quantity
	Th. tons	No.	Th. tons	Th. tons	Th. tons	No.	Th. tons
Black plates, under 1/8 inch thick	694.0	39	945.2	722.3	719.0	45	765.8

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
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Black plates, under 1/8 inch thick	155.3	4,822	43	146.1	2,294	147.9	1,747
Tinned plates, electrolytically coated	37.6	1,497	..	814.4	18,246	602.8	11,545
Tinned sheets, electrolytically coated	-	-	-				
Tinned plates and sheets, pot coated	566.8	26,687	36				
Terne plates	20.7	1,044	..	15.8	333	14.4	231
Terne sheets				11.4	232	8.1	140
Tin dross, terne dross, scruff and skimmings, sold				1.4	134	0.9	97
Other waste and by-products, except scrap metals, sold	..	10	5	..	10	..	7
Work done for the trade or on commission (a)		155	25		2		1
Total		34,214	..		21,251		13,768
Less sales (or production) in other trades (see Table 9)		1,437	..		354		534
Total principal products of this trade sold or made by establishments in the trade		32,777	41		20,897		13,234

(a) Amount charged in 1948 and amount received in 1937 and 1935.

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. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Black plates, under 1/8 inch thick	11.4	412	6	3.6	50	31.9	305
Tinned plates and sheets, pot coated	19.0	1,025	..	2.9	136(a)	3.0	120(a)
Terne sheets				7.9	166	6.2	108
Tin dross, terne dross, scruff and skimmings, sold				-	2	-	1
Total		1,437	..		354		534

(a) Including any electrolytically coated.

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
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Steel plates and sheets, coated or not, other than black plates and tinned or terne plates and sheets	15.2	541	23.6	347	12.2	152
Other goods	..	18	..	35	..	28
Scrap metals sold						
Iron and steel	154.7	578	237.2	645	174.7	373
Other	..	10	..	2	-	-
Total		1,146		1,029		553

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	4,780	14.2
Sales to independent buyers		
Exports invoiced directly overseas and to Crown Agents and purchasing houses in this country of individual firms and governments abroad	7,961	23.6
His Majesty's Government and Local Authorities (other than productive establishments)	43	0.1
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	16,549	49.0
Wholesalers, merchants and other agents for resale	4,435(a)	13.1
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	-	-
Other businesses (including farmers) and institutions of all kinds	-	-
Members of the public, including employees	1	-
Total sales to independent buyers	28,989	85.8
Total	33,769	100.0

(a) Recorded as divided between £1,196,000 for export and £3,240,000 for other sales.

Production, exports and imports
of certain principal products

TABLE 12

		Production (a) (b)	Exports	Retained imports
		Th. tons	Th. tons	Th. tons
Tinned plates and sheets	1948	604.4	201.1	0.1
	1937	814.4	450.8	0.9
Terne plates and sheets	1948	..	0.2	-
	1937	27.2	6.4	0.2

(a) Sales in 1948 and production for sale in 1937.

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

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. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Tinplate bars and tinplate slabs	579.8	7,851	1,116.9	7,897	858.3	4,521
Tin, in blocks, ingots, bars or slabs	9.2	4,858	13.1	3,106	10.0	2,228
Packing materials	Thous.		Thous.			
Boxes	2,788	205	11,817	361		
Other	..	196	..	56		
Wire	..	284			..	1,575(a)
	Th. cwts.					
Acids	795.8	209	..	2,502		
Palm oil	51.3	269				
All other purchased materials	..	8,312				
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	471.9	1,254	917.4	879	693.0	524
Coke			-	(b)	0.3	-
	Th. B.T.U. (kW. hrs.)		Th. B.T.U. (kW. hrs.)		Th. B.T.U. (kW. hrs.)	
Electricity purchased, including electricity obtained from other works under the same ownership (c)	110,564	409	34,376	79	34,078	62
Motor spirit (petrol) and derv. fuel	Th. galls.					
Used for road vehicles	12	1				
Used for other power purposes	65	5				
Other oil fuel (including creosote/pitch mixtures)	3,076	109	..	66	..	(b)
All other purchased fuel	..	210				
Total		24,178		14,946		8,910

(a) Including fuel not specified separately.

(b) Not recorded separately.

(c) The total quantity of electricity consumed in 1948 was 122,332,000 B.T. units including 11,768,000 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. tons	£'000	Th. tons	£'000
Finished products				
Tinned plates	17.0	625	18.6	741
Other finished products	..	69	..	121
Work in progress		946		1,025
Total finished products and work in progress		1,640		1,887
Materials and fuel				
Tinplate bars and tinplate slabs	13.9	180	15.6	214
Tin in blocks, ingots, bars or slabs	1.2	420	1.3	497
Other descriptions of materials and fuel	..	1,669	..	1,936
Total materials and fuel		2,269		2,647

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	1,011	2,680	1,788	21	68	40	1,032	2,748	1,828
All ages	13,371	22,924	19,012	1,039	814	745	14,410	23,738	19,757
Females									
Under 18	448	801	476	28	6	3	476	807	479
All ages	1,872	2,413	2,022	255	84	66	2,127	2,497	2,088
Total									
Under 18	1,459	3,481	2,264	49	74	43	1,508	3,555	2,307
All ages	15,243	25,337	21,034	1,294(c)	898	811	16,537	26,235	21,845
							(c) (d) (e)		
Total remuneration	£'000			£'000			£'000		
	5,244	..	..	574	..	..	5,818	..	..

(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	9 males	110 females
Other workers	5 males	2 females

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

(c) No working proprietors were recorded for 1948.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £133,000.

(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	-	
Maintenance and repair of firms' buildings, but not plant	5	
Research work not directly connected with current production however charged	-	*

(*) Negligible.

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				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
Wages and salaries of	£'000	£'000					
Operatives	5,244	601	24.2	24.5	25.7	25.7	100.0
Administrative, technical and clerical employees	574	63	23.4	24.9	25.9	25.8	100.0
Total	5,818	664	24.1	24.5	25.7	25.7	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 for work done on materials given out was £26,000.

Payments for certain services, 1948
Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	33
Of plant, machinery and vehicles	49
Unclassified	49
Hire of plant, machinery and vehicles	13
Advertising and market research	
Advertising in newspapers, magazines and periodicals	1
Other advertising services (poster display, despatch or circulars, etc.) and market research	-
Payments made for research work	1
Postage, telephone, telegrams and cables	33
Commercial insurance premiums	99
Rates (excluding water rates) payable in the year	21

Plant, machinery and vehicles acquired and disposed of, 1948
Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	126	41	24
Vehicles	5	4	2
Total	131	45	26

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

Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		28
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	-	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	6	
(111) Leasehold buildings and land newly occupied in the year	-	
Total of heading 2		6
Total of headings 1 and 2		34
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	-	
(11) Estimated value of other properties relinquished	2	
Total of heading 3		2
4. Headings 1 and 2 less heading 3		32

- (a) Excluding site value which, where appropriate, is included in heading 2 (1).
 (b) The figures do not reflect changes in ownership of previously occupied land and buildings.
 (c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.
 (d) Including property destroyed or abandoned.

TINPLATE TRADE

1948

Note:- There were no larger establishments in Scotland in the register for this trade.

Summary

Larger establishments

TABLE 21

	England	Wales	Great Britain
	£'000	£'000	£'000
Gross output (production)	2,386	31,595	33,981
Cost of materials and fuel used	1,788	22,011	23,800
Payment for work done on materials given out	12	14	26
Net output	586	9,569	10,155
Wages and salaries of persons employed	404	5,414	5,818
Average number of persons employed	No. 1,092	No. 15,445	No. 16,537
Net output per person employed	£ 536	£ 620	£ 614
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	176	1,711	1,887
Materials and fuel	193	2,454	2,647
Number of establishments	No. 5	No. 36	No. 41
The values of gross output and of materials and fuel used are derived in the following way:-			
	England	Wales	Great Britain
	£'000	£'000	£'000
Output of firms in this trade			
Total value of sales (see Table 23)	2,401	31,522	33,923
Adjustment for changes in stocks and work in progress	+ 35	+ 212	+ 248
Less payment for transport by other firms	2,436 50	31,734 139	34,171 190
Gross output (production)	2,386	31,595	33,981
Materials and fuel used by firms in this trade			
Purchases	1,781	22,397	24,178
Adjustment for changes in stocks	+ 8	- 386	- 378
Materials and fuel used	1,788	22,011	23,800

TABLE 22 - Summary: Small firms

There were no small firms in the register for this trade.

Sales in the trade

Larger establishments

TABLE 23

	Great Britain (a)	
	Quantity	Value
	Th. tons	£'000
Principal products		
Black plates, under 1/8" inch thick	143.8	4,410
Tinned plates, electrolytically coated	37.6	1,497
Tinned sheets, electrolytically coated	-	-
Tinned plates and sheets, pot coated	568.4	26,705
Terne plates and sheets		
Tin dross, terne dross, scruff and skimmings, sold		
Other waste and by-products, except scrap metals, sold	..	10
Work done for the trade or on commission		155 (b)
Total principal products		32,777
Other output		
Steel plates and sheets, coated or not, other than black plates and tinned or terne plates and sheets	15.2	541
Other goods	..	18
Scrap metals sold		
Iron and steel	154.7	578
Other	..	10
Total		33,923

(a) There were no larger establishments in Scotland in the register for this trade.

(b) Amount charged.

TABLE 24 - Purchased materials and fuel: Larger establishments

See Table 13.

TABLE 25 - Employment and remuneration: Larger establishments

See Table 15.

Monthly index of employment of operatives: Larger establishments

(average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)	Month	Monthly index (a)
	Great Britain (b)		Great Britain(b)
1948		1948	
January	100.2	August	100.3
February	99.1	September	101.0
March	99.6	October	100.4
April	98.5	November	101.6
May	99.0	December	101.4
June	98.7	Percentage employment in this trade covered by the index	
July	100.3		10.9

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

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