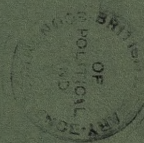




BOARD OF TRADE

FINAL REPORT  
on the  
CENSUS OF PRODUCTION  
FOR 1948  
Volume 3  
Trade D  
STEEL SHEETS



*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).*

LONDON : HER MAJESTY'S STATIONERY OFFICE

1952

PRICE 1s 9d NET



24 532  
 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 6d. NET

List of Tables

Table No.	Title	Page.
1	Summary: Larger establishments	3/D/2
2	Summary, 1948: Small firms in Great Britain	3/D/3
3	Estimated average employment, 1948: All firms in Great Britain	3/D/3
4	Analysis by size, 1948: Larger establishments in Great Britain	3/D/3
5	Analysis by standard region, 1948: Larger establishments in Great Britain	3/D/4
6	Analysis according to specialisation within the trade, 1948: Larger establishments in Great Britain	3/D/4
7	Total make of intermediate products: Larger establishments	3/D/4
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	3/D/5
9	Sales (or production) of principal products of the trade by establishments classified to other trades: Larger establishments	3/D/6
10	Sales (or production) in the trade of other than principal products: Larger establishments	3/D/6
11	Analysis of sales, 1948: Larger establishments in Great Britain	3/D/7
12	Production, exports and imports of certain principal products: Larger establishments	3/D/8
13	Purchased materials and fuel: Larger establishments	3/D/9
14	Stocks of finished products and work in progress and stocks of materials and fuel, 1948: Larger establishments in Great Britain	3/D/10
15	Employment and remuneration: Larger establishments	3/D/11
16	Wages and salaries paid, 1948: Larger establishments in Great Britain	3/D/12
17	Payments for work done on materials given out, 1948: Larger establishments in Great Britain	3/D/12
18	Payments for certain services, 1948: Larger establishments in Great Britain	3/D/12
19	Plant, machinery and vehicles acquired and disposed of, 1948: Larger establishments in Great Britain	3/D/13
20	Capital expenditure on building work and changes in occupation of buildings and land, 1948: Larger establishments in Great Britain	3/D/13

Country Tables

Table No.	Title	Page
21	Summary: Larger establishments	3/D/14
22	Summary: Small firms	3/D/15
23 or 23(1)	Sales in the trade: Larger establishments	3/D/15
23(11)	Sales in the trade: Small firms	*
24 or 24(1)	Purchased materials and fuel: Larger establishments	3/D/16
24(11)	Purchased materials and fuel: Small firms	*
25 or 25(1)	Employment and remuneration: Larger establishments	3/D/16
25(11)	Employment: Small firms	*
26	Monthly index of employment of operatives: Larger establishments	3/D/16

\* Not applicable to this trade

STEEL SHEETS TRADE

THIS REPORT on the Steel Sheets Trade relates to establishments engaged wholly or mainly in the rolling from the bar or slab of steel sheets and the production of coated sheets, including galvanised sheets (flat or corrugated).

This trade corresponds to minimum list heading 43(1) 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  
STEEL SHEETS TRADE

## Summary

## Larger establishments

TABLE 1

	1948	1937	1935
	£'000	£'000	£'000
Gross output (production)	49,371	21,824	15,643
Cost of materials and fuel used	36,724	14,894	10,655
Payment for work done on materials given out	60	1	4
Net output	12,588	6,929	4,984
Wages and salaries of persons employed	7,641	..	..
	No.	No.	No.
Average number of persons employed	19,966	23,919	21,999
	£	£	£
Net output per person employed	630	290	227
	£'000	£'000	£'000
Stocks at end of year			
Finished products and work in progress	3,214	..	..
Materials and fuel	3,497	..	..
	No.	No.	No.
Number of establishments	35	..	34

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

	1948	1937	1935
	£'000	£'000	£'000
Output of firms in this trade			
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	42,143	18,340	12,903
Other output (see Table 10)	8,100	3,484	2,740
Adjustment for changes in stocks and work in progress (see Table 14)	+ 798		
Less payment for transport by other firms	51,041 1,670	21,824	15,643
Gross output (production)	49,371	21,824	15,643
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	37,284	14,894	10,655
Adjustment for changes in stocks (see Table 14)	- 560		
Materials and fuel used	36,724	14,894	10,655

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	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11-49	5	409	98	116	38	8	45	844
50-199	5	1,032	349	490	163	25	189	713
200-299	3	1,811	415	663	227	34	260	625
300-399	5	3,873	991	1,818	584	94	678	545
400-499	4	3,518	941	1,757	636	52	689	536
500-749	6	7,229	1,966	3,931	1,315	144	1,460	500
750-999	3	4,810	1,272	2,624	866	115	981	485
1,000 and over	4	26,689	6,555	8,567	2,830	510	3,340	765
Total	35	49,371	12,588	19,966	6,660	982	7,641	630



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
	No.	£'000	£'000		No.	£'000	£'000	£'000
England								
Midland	9	4,354	1,118	8.9	1,970	680	118	798
North Western	4	3,164	877	7.0	1,749	545	82	627
Northern; and East and West Ridings of Yorkshire	8	6,654	1,913	15.2	3,181	991	132	1,123
Scotland								
Total England and Scotland	21	14,172	3,908	31.0	6,900	2,216	332	2,548
Wales	14	35,199	8,680	69.0	13,066	4,444	650	5,093
Great Britain	35	49,371	12,588	100.0	19,966	6,660	982	7,641

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
Steel sheets, not coated, under 1/8 inch thick (other than stainless and heat-resisting sheets and black plates)	1,333.8	27	1,113.3	982.9	1,368.6	54	1,040.6

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
Steel sheets, not coated, under 1/8 inch thick							
Other than stainless and heat-resisting sheets and black plates (a)	1,168.6	33,926	54	924.3	13,613	719.7	8,497
Stainless and heat-resisting sheets	14.0	4,043	13	4.1	576(b)	3.5	496(b)
Iron plates and sheets, not coated	0.2	12	5	3.8	63	2.7	40
Galvanised sheets							
Flat	83.7	3,023	16	101.6	1,729	97.9	1,267
Corrugated	113.5	4,078	15	214.0	3,626	289.0	3,579
Other coated plates or sheets (except tinned or terne) (a)	27.3	1,023	6	8.4	453	5.6	283
Work done for the trade or on commission (c)		564	12		169		84
Total		46,669	..		20,231		14,246
Less sales (or production) in other trades (see Table 9)		4,527	..		1,891		1,343
Total principal products of this trade sold or made by establishments in the trade		42,143	33		18,340		12,903

(a) For particulars of the output of tinned or terne plates and sheets and black plates, see the Tinplate Trade (Volume 3, Trade E).

(b) Described as "Stainless and non-corrosive".

(c) 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
Steel sheets, not coated, under 1/8 inch thick							
Other than stainless and heat-resisting sheets and black plates	31.3	1,331	27	81.6	1,275	65.2	797
Stainless and heat-resisting sheets				4.1	576(a)	3.5	496(a)
Coated plates or sheets (except galvanised, tinned or terne)	11.9	3,184	..	-	-	-	-
Galvanised sheets, corrugated	-	-	-	0.9	14	1.0	12
Iron plates and sheets, not coated	0.2	12	5	1.4	26	2.5	38
Total		4,527	..		1,891		1,343

(a) Described as "Stainless and non-corrosive".

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, not coated 1/8 inch thick and over	155.4	3,709	53.4	641	37.8	350
Iron and steel scrap	289.4	998	194.0	579	174.3	390
Other goods	..	3,393	..	2,167	..	1,915
Work done		-		97(a)		85(a)
Total		8,100		3,484		2,740

(a) Amount received.

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		
Productive works	5,413	10.9
Export sales organisations (including branches abroad) and other wholesale or selling organisations	1,690	3.4
Retail shops, etc.	-	-
Total sales (or transfers) to other organisations under the same control	7,103	14.3
Sales to independent buyers		
Exports invoiced directly overseas	3,170	6.4
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	486	1.0
His Majesty's Government and Local Authorities (other than productive establishments)	515	1.0
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	23,221	46.7
Wholesalers, merchants and other agents for resale	15,168(a)	30.5
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	-	-
Other businesses (including farmers) and institutions of all kinds	8	-
Members of the public, including employees	9	-
Total sales to independent buyers	42,576	85.7
Total	49,679	100.0

(a) Of this total £13,800,000 was recorded as divided between £1,845,000 for export and £11,956,000 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
Steel sheets, not coated, under 1/8 inch thick	1948	1,182.6	111.5(c)	8.3
	1937	928.4	157.3	16.9
Galvanised sheets				
Flat	1948	83.7	48.4	-
	1937	101.6	52.1	0.1
Corrugated	1948	113.5	41.2	-
	1937	214.0	172.3	-
Other coated plates or sheets (except tinned or terne)	1948	27.3	3.2	-
	1937	8.4	0.4	0.2

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

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

(c) Including black plates. For the output of black plates see the Tinplate Trade; recorded sales in 1948 were 155,300 tons. Retained imports of black plates in 1948 were negligible.

## 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						
Sheet bars and sheet slabs	1,761.2	25,617	1,018.6	7,398	918.1	4,989
Zinc or spelter	18.6	1,432	36.6	865		
Packing materials	Thous.		Thous.		..	(a)
Boxes	149.4	49	8.3	5		
	..	33				
Other	..	88				
Hot rolled strip from wide continuous mills	Th. tons					
	87.1	2,006				
Wire	Th. cwts.		..	5,425	..	4,733(b)
	1.6	3				
Acids	783.5	242				
All other purchased materials	..	5,121				
Fuel and electricity	Th. tons		Th. tons			
Coal	492.0	1,332	1,009.9	953	1,050.3	777
Coke	25.8	100	..	(a)	30.8	28
	Th. B.T.U. (kW. hrs.)		Th. B.T.U. (kW. hrs.)		Th. B.T.U. (kW. hrs.)	
	188,695	620				
Electricity purchased (c)			75,958	159	50,708	120
Electricity obtained from other works under the same ownership	31,821	155				
	Th. galls.				Th. galls.	
Motor spirit (petrol) and deriv. fuel	141	12	..	(a)	..	(a)
Other oil fuel (including creosote/pitch mixtures)	9,197	315	..	(a)	516	8(d)
	Th. therms					
Gas purchased and gas obtained from other works under the same ownership	9,777	104				
	..	53	..	89	..	(a)
All other purchased fuel	..	2				
Total		37,284		14,894		10,655

(a) Not recorded separately.

(b) Including fuel not specified separately.

(c) The total quantity of electricity consumed in 1948 was 226,532,000 B.T. units including 6,016,000 generated in the same works.

(d) Described as "Heavy fuel oil".



## 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
	£'000	£'000
Finished products	745	922
Work in progress	1,671	2,291
Total finished products and work in progress	2,416	3,214
Materials and fuel	2,937	3,497

## 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	947	1,939	1,420	48	140	82	995	2,079	1,502
All ages	17,369	22,206	20,499	1,640	1,429	1,228	19,009	23,635	21,727
Females									
Under 18	24	17	11	63	52	24	87	69	35
All ages	467	51	62	489	233	210	956	284	272
Total									
Under 18	971	1,956	1,431	111	192	106	1,082	2,148	1,537
All ages	17,836	22,257	20,561	2,129 (c)	1,662	1,438	19,965 (c) (d) (e)	23,919	21,999
Total remuneration	£'000 6,660	..	..	£'000 982	..	..	£'000 7,641	..	..

(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	19 males	209 females
Other workers	153 males	14 females

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

(c) There was, in addition, 1 female working proprietor 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 £161,000.

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

Transport of goods outside the premises	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	*	
Maintenance and repair of firms' buildings, but not plant	80	
Research work not directly connected with current production however charged	-	*

\*Owing to the risk of disclosure of information relating to individual firms these figures cannot be given.



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		
Wages and salaries of	£'000	£'000						
Operatives	6,660	2,394	24.0	25.7	24.4	26.0	100.0	
Administrative, technical and clerical employees	982	382	23.8	26.7	24.7	24.8	100.0	
Total	7,641	2,776	23.9	25.8	24.4	25.8	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 £60,000.

Payments for certain services, 1948  
Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	19
Of plant, machinery and vehicles	113
Unclassified	90
Advertising and market research	
Advertising in newspapers, magazines and periodicals	5
Other advertising services (poster display, despatch of circulars, etc.) and market research	-
Unclassified	2
Payments made for research work	
To research associations	-
To universities, institutions, academic bodies and similar agencies	-
To other commercial concerns	5
Postage, telephone, telegrams and cables	25
Commercial insurance premiums	69
Rates (excluding water rates) payable in the year	29

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	709	38	35
Vehicles	18	1	1
Total	727	39	36

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)		81
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)	-	
(111) Leasehold buildings and land newly occupied in the year	6	
Total of heading 2		6
Total of headings 1 and 2		87
3. Existing buildings and land relinquished (d)		-
4. Headings 1 and 2 less heading 3.		87

- (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.



## METAL MANUFACTURE COUNTRY TABLES

## STEEL SHEETS TRADE

1948

Note - Owing to the risk of disclosure of information relating to individual firms, separate particulars for Scotland cannot be given.

## Summary

## Larger establishments

TABLE 21

	England and Scotland	Wales	Great Britain
	£'000	£'000	£'000
Gross output (production)	14,172	35,199	49,371
Cost of materials and fuel used	10,211	26,513	36,724
Payment for work done on materials given out	53	6	60
Net output	3,908	8,680	12,588
Wages and salaries of persons employed	2,548	5,093	7,641
Average number of persons employed	No. 6,900	No. 13,066	No. 19,966
Net output per person employed	£ 568	£ 664	£ 630
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	807	2,406	3,214
Materials and fuel	937	2,560	3,497
Number of establishments	No. 21	No. 14	No. 35

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

	England and Scotland	Wales	Great Britain
	£'000	£'000	£'000
Output of firms in this trade			
Total value of sales (see Table 23)	14,371	35,872	50,243
Adjustment for changes in stocks and work in progress	+ 124	+ 674	+ 798
	14,495	36,546	51,041
Less payment for transport by other firms	323	1,347	1,670
Gross output (production)	14,172	35,199	49,371
Materials and fuel used by firms in this trade			
Purchases	10,421	26,863	37,284
Adjustment for changes in stocks	- 210	- 350	- 560
Materials and fuel used	10,211	26,513	36,724

## STEEL SHEETS COUNTRY TABLES

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	
	Quantity	Value
	Th. tons	£'000
Principal products		
Steel sheets, not coated, under 1/8 inch thick		
Other than stainless and heat-resisting sheets and black plates	1,137.3	32,595
Stainless and heat-resisting sheets	29.4	1,882
Coated plates or sheets (except galvanised, tinned or terne)		
Galvanised sheets		
Flat	83.7	3,023
Corrugated	113.5	4,078
Work done for the trade or on commission		564(a)
Total principal products		42,143
Other output		
Steel plates, not coated, 1/8 inch thick and over	155.4	3,709
Iron and steel scrap	289.4	998
Other goods	..	3,393
Total		50,243

(a) 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		Great Britain
1948		1948	
January	101.4	August	97.1
February	101.3	September	100.0
March	101.3	October	100.3
April	100.7	November	99.8
May	100.3	December	99.6
June	99.3	Percentage employ- ment in this trade covered by the index	35.6
July	98.9		

(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.



*CROWN COPYRIGHT RESERVED*

PRINTED AND PUBLISHED BY HER MAJESTY'S STATIONERY OFFICE

To be purchased from

York House, Kingsway, LONDON, W.C.2    423 Oxford Street, LONDON, W.1  
P.O. Box 569, LONDON, S.E.1

13a Castle Street, EDINBURGH, 2    1 St. Andrew's Crescent, CARDIFF  
39 King Street, MANCHESTER, 2    Tower Lane, BRISTOL, 1  
2 Edmund Street, BIRMINGHAM, 3    80 Chichester Street, BELFAST

or from any Bookseller

1952

Price 1s 9d net

PRINTED IN GREAT BRITAIN

S.O. Code No. 51-312-3-4