

BOARD OF TRADE

S
42
[HA 251]

*The Report on the
Census of Production
for 1954*

Volume 3 : Industry 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

1957

PRICE 1s. 6d. NET

The Report on the Census of Production for 1954

VOLUME 3, INDUSTRY D

STEEL SHEETS

THIS REPORT on the Steel Sheets Industry 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 galvanized sheets (flat or corrugated). The rolling from the bar or slab of tin, terne and black-plate, tinned sheets and terne sheets are excluded and are included in the report on the Tinplate Industry (Volume 3, Industry E).

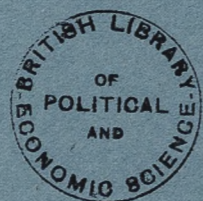
This industry corresponds to minimum list heading 43 (1) in the Standard Industrial Classification.

There were no larger establishments in Northern Ireland in the register for this industry.

LIST OF TABLES

Table No:	Title	Page	Table No:	Title	Page
1	Industry summary: estimates for the industry as a whole	3/D/3	6	Sales of principal products of the industry by establishments classified to other industries	3/D/5
2	Summary of returns received	3/D/3	7	Sales in the industry of other than principal products	3/D/5
3	Analysis by size, 1954	3/D/4	8	Total make of intermediate products	3/D/5
4	Analysis according to specialisation within the industry, 1954	Does not apply	9	Purchases of materials and fuel, 1954	3/D/6
5	Sales of principal products of the industry, including sales of these products by establishments classified to other industries	3/D/4	10	Average number of employees and wages, salaries and superannuation payments	3/D/7
			11	Employment in a specified week	3/D/7

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



S
H22

[HA 251]

20.6.57.

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 (a)	Wales 1954
	1948	1951	1954	£ million	£ million
Gross output (production)	£ million 49.4	£ million 74.8	£ million 101.1	£ million ..	£ million 76.24
Net output	12.6	18.2	18.4	..	13.77
Total stocks and work in progress					
At beginning of year	+ 5.4	+ 8.6	- 13.2	..	+ 9.46
Change during year	+ 1.4	+ 0.4	- 0.5	..	+ 0.12
Capital expenditure less disposals (b)	0.8	1.6	1.6	..	1.21
Wages and salaries	7.6	9.0	10.6	..	7.13
Total employment (including working proprietors)	Thousands 20.0	Thousands 19.7	Thousands 19.2	Thousands ..	Thousands 12.59

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

(b) Capital expenditure on new building work, plant, machinery and vehicles less amounts received for plant, machinery and vehicles disposed of. There was no expenditure at establishments not yet in production during 1951 or 1954.

Summary of returns received

TABLE 2

	Unit	Great Britain 1948	United Kingdom	
			1951	1954
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS				
Number of establishments	No.	35	31	33
Total value of sales and work done	£'000	50,243	74,382	100,908
Products on hand for sale	"	2,416	4,175	6,709
and work in progress	"	+ 798	+ 372	+ 196
Gross output (production) (a)	"	49,371	74,754	101,104
Purchases of materials and fuel	"	37,284	53,784	79,018
Stocks of materials and fuel	"	2,937	4,467	6,466
Cost of materials and fuel used	"	+ 560	- 15	- 650
Payment for work done on materials given out	"	36,724	53,799	79,668
Payment for transport (b)	"	60	178	121
	"	1,670	2,552	2,928
Net output	"	12,588	18,225	18,387
Average number of employees	No.	17,836	17,214	16,765
Total employment (d)	"	2,129(c)	2,441	2,458
Net output per person employed (d)	"	19,966	19,656	19,224
	£	630	927	956
Wages and salaries	£'000	6,660	7,817	9,190
	"	982	1,188	1,437
Capital expenditure	"			
New building work	"	81	151	203
Plant and machinery	"	747	1,504	1,378
Vehicles	"	35	41	22
	"	19	22	18
	"	1	1	4
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	-	-	-
Total employment, including working proprietors	"	-	-	-

(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) Including working proprietors.

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 - 99	3	733	135	102	26	47	29	14	1,044
100 - 199	4	4,273	754	499	79	285	46	53	1,305
200 - 299	5	6,523	799	1,111	122	542	80	63	648
300 - 399	5	7,153	1,052	1,472	209	756	122	38	626
400 - 499	6	8,635	2,081	2,413	340	1,293	185	102	756
500 - 749	5	12,031	2,469	2,719	378	1,462	217	127	797
750 and over	5	61,755	11,098	8,449	1,304	4,805	758	1,202	1,138
Total	33	101,104	18,387	16,765	2,458	9,190	1,437	1,599	956

(a) Including working proprietors.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles.

TABLE 4 - Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

No specialisation within this industry was distinguished.

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. tons	£'000	Th. tons	£'000	Number
Steel sheets, uncoated, under 1/8inch thick					
Black sheets of non-alloy steel (a)	1,357.0	48,466	1,524.6	68,073	42
Of alloy steel					
Stainless and heat resisting	21.8	6,715	24.5	9,769	14
Other descriptions	66.8	4,174	70.6	5,439	22
Galvanised sheets					
Flat	63.2	3,349	104.6	5,907	16
Corrugated	82.1	4,880	214.8	13,901	16
Other coated plates or sheets (except tinned or terne) (a)	42.4	1,879	45.7	2,412	..
Work done for the trade or on commission (b)		441		812	19
Total		69,904		106,312	..
Sales in other industries (see Table 6)		7,759		25,323	..
Principal products of this industry sold by establishments in the industry		62,145		80,989	32

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

(b) Amount charged.

(55143)

TABLE 6 - Sales of principal products of the industry by establishments classified to other industries

Larger establishments in the United Kingdom

The total value of the sales of principal products of the industry by establishments classified to other industries was £25,323,000 for 1954 the principal industry being Iron and Steel (Melting and Rolling) (Volume 3B).

Sales in the industry of other than principal products

Larger establishments in the United Kingdom

TABLE 7

	1954	
	Quantity	Value
	Th. tons	£'000
Steel plates, uncoated, other than of alloy steel 1/8inch thick and over		
Under 3/16inch thick	119.6	4,578
3/16inch thick and over	75.4	2,783
Steel plates, uncoated, of alloy steel 1/8inch thick and over	0.9	345
Other goods	..	9,619
Waste and by-products		
Scrap iron and steel	310.3	1,963
Other	26.9	353
Work done (a)		277
Total		19,919

(a) Amount charged.

Total make of intermediate products

Larger establishments in the United Kingdom

TABLE 8

	Returned in this industry			Returned in all industries		
	1951	1954		1951	1954	
	Quantity	Quantity	Entries	Quantity	Quantity	Entries
	Th. tons	Th. tons	Number	Th. tons	Th. tons	Number
Steel sheets, uncoated, under 1/8inch thick						
Black sheets of non-alloy steel (a)	1,453.8	(b)	..	1,522.7	1,769.2	42
Stainless and heat resisting	(b)	5.8	..	22.1	24.2	13

(a) Including in 1951 steel sheets, uncoated, under 1/8inch thick of alloy steel, other than stainless and heat resisting.

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

(55143)

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

TABLE 9

	Quantity	Cost
	Th. tons	£'000
Materials		
Sheet bars	669.9	19,135
Sheet slabs	1,246.2	33,168
Steel sheets uncoated, under 1/8 inch thick	159.9	8,700
Iron and steel not specified above, except finished parts and scrap	110.5	5,124
Zinc or spelter, in all forms except finished parts and scrap	37.2	3,005
Acids	Th.cwt. 1,124.8	505
Packing materials	Th.cu.ft. of timber	
Timber (including timber packing cases and stillages of timber)	148.1	85
All other packing materials	..	35
Replacement parts for firms' plant, machinery and vehicles	..	227
Consumable tools bought as replacements, including engineers' small tools, jigs, fixtures and measuring instruments	..	1,637
All other purchased materials	..	203
Fuel and electricity	Th. tons	
Coal	288.0	1,109
Coke	51.9	247
Liquid fuels (including creosote/pitch mixtures)	Th.gal.	
For use in internal combustion engines	1,095	65
For burning in furnaces, boilers, kilns, etc.	19,250	733
Gas purchased	Th.therms	
From Gas Boards	3,437	148
From other sources, including other departments of the same firms	14,070	217
	..	60
Electricity purchased (a)	Th.kWh.	
From Electricity Boards	164,216	679
From other sources, including other departments of the firms	170,408	639
All other purchased fuel	..	74
Total cost		79,018

(a) Owing to the risk of disclosure of information relating to individual firms the total quantity of electricity generated in firms' own establishments cannot be given.

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	17,214	16,765
Administrative, technical and clerical employees	2,441	2,458
Total	19,655	19,223
Wages and salaries paid to	£'000	£'000
Operatives	7,817	9,190
Administrative, technical and clerical employees	1,188	1,437
Total	9,005	10,627
Wages and salaries per head	£	£
Operatives	454	548
Administrative, technical and clerical employees	487	585
		£'000
Superannuation and other pension funds for employees and dependents		
Employers' contributions	..	150
Employees covered	..	Number 2,834
		£'000
Pension, etc. payments to former employees and dependents	..	13

(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):-

	United Kingdom	
	1951	1954
Canteen workers		
Males	14	23
Females	201	173
Total	215	196
Other workers		
Males	147	52
Females	19	1
Total	166	53
Total excluded employees	381	249

Employment in a specified week (a)

Larger establishments in the United Kingdom

TABLE 11

	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	-	1	1	-	1	1
Operatives	16,657	326	16,983	16,696	293	16,989
Administrative, technical and clerical employees	1,814	627	2,441	1,851	629	2,480
Total employees	18,471	953	19,424	18,547	922	19,469

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

LIST OF INDUSTRY REPORTS

VOLUME 1

- A. Coal Mines
- B. Non-Metalliferous Mines and Quarries (other than Coal, Salt and Slate)
- C. Salt Mines, Brine Pits and Salt Works
- D. Slate Quarries and Mines
- E. Metalliferous Mines and Quarries
- F. Brick and Fireclay
- G. China and Earthenware
- H. Glass Containers
- I. Glass (other than Containers)
- J. Cement
- K. Abrasives
- L. Building Materials
- M. Manufactured Fuel

VOLUME 2

- A. Coke Ovens and By-products
- B. Dyes and Dyestuffs
- C. Fertiliser, Disinfectant, Insecticide and Allied Industries
- D. Coal Tar Products
- E. Chemicals (General)
- F. Drugs and Pharmaceutical Preparations
- G. Toilet Preparations and Perfumery
- H. Explosives and Fireworks
- I. Paint and Varnish
- J. Soap, Candles and Glycerine
- K. Polishes
- L. Ink
- M. Match
- N. Mineral Oil Refining
- O. Oils and Greases
- P. Seed Crushing and Oil Refining
- Q. Glue, Gum, Paste and Allied Industries
- R. Plastics Materials

VOLUME 3

- A. Blast Furnaces
- B. Iron and Steel (Melting and Rolling)
- C. Iron Foundries
- D. Steel Sheets
- E. Tinplate
- F. Wrought Iron and Steel Tubes
- G. Non-Ferrous Metals (Smelting, Rolling, etc.)
- H. Scrap Metal Processing
- I. Motor Vehicles and Cycles (Manufacturing)
- J. Motor Vehicles and Cycles (Repairing)
- K. Aircraft Manufacture and Repair
- L. Railway Locomotive Shops and Locomotive Manufacturing
- M. Railway Carriages and Wagons and Trams
- N. Carts, Perambulators, etc.

VOLUME 4

- A. Shipbuilding and Ship Repairing
- B. Marine Engineering
- C. Machine Tools
- D. Textile Machinery and Accessories
- E. Small Arms
- F. Constructional Engineering
- G. Mechanical Handling Equipment

VOLUME 4 (contd.)

- H. Printing and Bookbinding Machinery
- I. Mechanical Engineering (General)
- J. Mechanical Engineering (Repairing)
- K. Electrical Engineering (General)
- L. Electric Wires and Cables
- M. Radio and Telecommunications
- N. Batteries and Accumulators
- O. Electric Lighting Accessories and Fittings

VOLUME 5

- A. Tool and Implement
- B. Cutlery
- C. Chain, Nail, Screw and Miscellaneous Forgings
- D. Wire and Wire Manufactures
- E. Hardware, Hollow-ware, Metal Furniture and Sheet Metal
- F. Brass Manufactures
- G. Needles, Pins, Fish Hooks and Metal Smallwares
- H. Scientific, Surgical and Photographic Instruments, etc.
- I. Watch and Clock
- J. Jewellery and Plate
- K. Precious Metals Refining
- L. Musical Instruments

VOLUME 6

- A. Cotton Spinning and Doubling
- B. Cotton Weaving
- C. Woollen and Worsted
- D. Rayon, Nylon, etc. Production
- E. Rayon, Nylon, etc. Weaving, and Silk
- F. Flax Processing
- G. Linen and Soft Hemp
- H. Jute
- I. Rope, Twine and Net
- J. Hosiery and Other Knitted Goods
- K. Lace
- L. Carpets
- M. Narrow Fabrics
- N. Canvas Goods and Sacks
- O. Textile Converting
- P. Made-up Household Textiles
- Q. Textile Finishing
- R. Textile Packing

VOLUME 7

- A. Asbestos
- B. Flock and Rag
- C. Hair, Fibre and Kindred Industries
- D. Leather (Tanning and Dressing)
- E. Feltmongery
- F. Leather Goods
- G. Fur
- H. Tailoring, Dressmaking, etc.
- I. Hats, Caps and Millinery
- J. Glove
- K. Umbrella and Walking Stick
- L. Boot and Shoe

VOLUME 8

- A. Grain Milling
- B. Bread and Flour Confectionery
- C. Biscuit
- D. Bacon Curing and Sausage

VOLUME 8 (contd.)

- E. Preserved Meat
- F. Milk Products
- G. Ice Cream
- H. Sugar and Glucose
- I. Cocoa, Chocolate and Sugar Confectionery
- J. Preserved Fruit and Vegetables

VOLUME 9

- A. Margarine
- B. Fish Curing
- C. Cattle, Dog and Poultry Foods
- D. Vinegar and Other Condiments
- E. Starch
- F. Ice
- G. Miscellaneous Preserved Foods
- H. Brewing and Malting
- I. Wholesale Bottling
- J. Spirit Distilling
- K. Spirit Rectifying and Compounding
- L. Soft Drinks, British Wines and Cider
- M. Tobacco

VOLUME 10

- A. Timber
- B. Furniture and Upholstery
- C. Soft Furnishings
- D. Shop and Office Fitting
- E. Wooden Containers and Baskets
- F. Paper and Board
- G. Wallpaper
- H. Cardboard Box, Carton and Fibre-board Packing Case
- I. Manufactured Stationery, Paper Bag and Kindred Industries
- J. Newspaper and Periodical Printing and Publishing
- K. Printing and Publishing, Bookbinding, Engraving, etc.

VOLUME 11

- A. Rubber
- B. Linoleum, Leathercloth and Allied Industries
- C. Brushes and Brooms
- D. Toys and Games
- E. Sports Requisites
- F. Miscellaneous Stationers' Goods
- G. Cinematograph Film Production
- H. Cinematograph Film Printing
- I. Plastic Goods and Fancy Articles
- J. Incandescent Mantles

VOLUME 12

- A. Building and Contracting
- B. Local Authorities (Building and Civil Engineering)
- C. Railways (Civil Engineering)
- D. Tramway, Trolley Bus and Omnibus Undertakings (Civil Engineering)
- E. Canal, Dock and Harbour Undertakings (Civil Engineering)
- F. Gas Supply Industry
- G. Electricity Supply Industry
- H. Water Undertakings

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
13A Castle Street, Edinburgh 2
109 St Mary Street, Cardiff
39 King Street, Manchester 2
Tower Lane, Bristol 1
2 Edmund Street, Birmingham 3
80 Chichester Street, Belfast
or through any bookseller

Printed in Great Britain