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The Report on the Census of Production for 1954

Volume 3: Industry G
NON-FERROUS METALS (SMELTING, ROLLING, ETC.)



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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VOLUME 3 INDUSTRY G

NON-FERROUS METALS (SMELTING, ROLLING, ETC.)

THIS REPORT on the Non-Ferrous Metals (Smelting, Rolling, etc.) Industries relates to establishments engaged wholly or mainly in the manufacture of non-ferrous metals (other than precious metals) from the preliminary stage. Those whose chief business is the production of goods advanced beyond the semi-finished stage are dealt with in reports on other industries, e.g., Brass Manufactures; Wire and Wire Manufactures; Hardware, Hollow-ware, Metal Furniture and Sheet Metal.

These industries correspond to minimum list heading 49 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.

22.4.58

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 workpeople included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchanting 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 merchanting 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

man patra de la cara la compania de la casa		United Kingdom	o.	Scotland	Wales	
	1948	1951	1954	1954	1954	
THE RESERVE TO THE PERSON OF T	£ million					
Gross output (production)	253.0	435.9	485.3	25.17	42.69	
Net output	71.6	99.6	106.1	5.68	9.38	
Total stocks and work in progress At beginning of year Change during year	41.1 + 5.1	62.5	67.4	3.83 + 0.25	9.26	
Capital expenditure less disposals (a)	6.0	8.9	9.3	0.45	1.28	
Wages and salaries	39.2 Thousands	47.2 Thousands	58.6 Thousands	3.58 Thousands	5.59 Thousands	
Total employment (including working proprietors)	107.0	109.4	112.9	6.93	10.32	

(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 1

		Unit	Great Britain	United K	ingdom
		Onre	1948	1951	1954
IRMS EMPLOYING ON AVERAGE MO	RE THAN 10 PERSONS				
Number of establishments Total value of sales and work of Products on hand for sale		No. £'000	475 245,220 22,133 + 3,217 246,821	493 420,556 (α) 33,485 + 5,697 426,254 (α)	478 463,648 33,329 + 8,534 472,181
Purchases of materials and fuel Stocks of materials and fuel Cost of materials and fuel used Payment for work done on materials and fuel used Payment for transport (c)	at beginning of year change during year d		177,729 17,938 + 1,756 175,973 1,003 / 1,616 /	330,703 27,596 + 6,397 324,307 1,072 3,447	366,496 32,207 + 2,867 363,629 1,310 4,013
Total employment (e)	operatives others	No.	69,844 86,430 17,915(d) 104,395 669	97,428(a) 86,394 20,506 106,949 911(a)	103,230 86,947 22,897 109,874 940
Net output per person employed Wages and salaries	of operatives of others	£, 000	29,848 8,346	34,920 11,209	43,142 13,886
Capital expenditure New building work (f) Plant and machinery Vehicles	acquisitions (f) disposals acquisitions (f) disposals		1,033 4,938 285 339 171	1,395 5,920 148 629 90	1,592 6,809 358 620 170
TRMS EMPLOYING ON AVERAGE 10	O OR FEWER PERSONS	No.	387	336 (g)	370
Number of returns Total employment, including proprietors	working	, No.	2,299	- 2,096(g)	2,256

(a) Amended figure.

(b) 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.

(c) 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.

(d) Number in week ended September 25, 1948.

(e) Excluding outworkers and including working proprietors.

(f) Excluding expenditure for establishments not yet in production.
(g) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

TABLE 3

Total

Analysis by size, 1954: Larger establishments in the United Kingdom

Average number	erage number Estab-		Net	Emplo	yees	Wages and		capital	Net output per person
employed (a)		output output		Operatives	Others	Operatives		expenditure (b)	employed (a)
	Number	£,000	£, 000	Number	Number	£,000	£, 000	£,000	£
11 - 24(c)	111	7,592	1,819	1,449	354	650	216	108	1.001
25 - 49	101	16,283	3,605	2,843	693	1,332	474	,208	1.017
50 - 99	91	35,247	5.750	5,169	1.097	2.347	779	349	917
100 - 199	72	50,157	10,650	8,237	1.883	4,074	1.286	732	1.052
200 - 299	20	19,854	4,450	3,814	983	1,758	638	335	928
300 - 399	13	60,907	5,542	3,601	992	1.872	638	367	1,207
400 - 499	12	29,504	4,468	4,171	1,225	2,000	655	521	828
500 - 749	20	41,388	10,834	9,899	2,058	4,897	1,274	1,249	906
750 - 999	12	40,547	10,045	8,108	2,157	4,340	1,299	789	979
1,000 - 1,499	12	60,458	13,134	11,422	3,350	6.093	2.045	1.824	889
1,500 - 1,999	6	39,987	10,278	7,889	2,678	4,040	1,653	628	973
2.000 - 2.499	4	20,967	7.431	7,161	1,795	3,453	1,076	431	830
2,500 and over	4	49,291	15,225	13,184	3,632	6,287	1,853	1,480	905

472,181

103,230

478

22,897

43,142

13,886

86,947

(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

TABLE 4			Large	establ	i shment	s in th	ne United	d Kingdo	m			
			Mr. 3		Spec	ialist	producers	of				
		"		um and a m alloys		Coppe		Lead	Tin		Remain-	
		Unit	Smel- ters and refin- ers	Fabri- cators	Makers of cast- ings, etc.	Smel- ters and refin- ers	Fabri- cators	and lead alloys	and tin alloys	Zinc	der of the in- dustry	Total
Number of estab		No.	17	41	111	26	100	42	12	40	89	478
Total value of work done Sales of charac		£,000	11.775	76,074	30,159	47,280	158,825	24,254	27.758	17.172	70,353	463,648
products Products on	at beginning		11,557	67,721	22.477	44,331	121.721	18,736	25,606	15,175		
sale and	of year change dur-		378	6,041	1,421	1,254		862	1,780	557	7,212	33,329
work in	ing year		+ 89	+ 842 76,916	+ 283 30,442		+ 4.282	+ 433	+1,322 29,080	+ 258 17,429		+ 8,534 472,181
Purchases of ma			9,714	54,900	16,186		132,099	21.721	25,902	11,633	TO SERVED S	366,496
Stocks of	at beginning of year		1,012	5,367	2,614	1.988	8,501	971	1,283	2,203	8,268	32,207
	change dur- ing year		+ 47	- 248	- 163	- 5	+ 2.760	+ 343	- 123	+ 271	- 15	+ 2,867
Cost of materia.			9,666	55,148	16,350	44,209	129,339	21,378	26,024	11,362	50,153	363,629
Payment for work materials gives Payment for train	n out		- 116	158 877	296 222	58 338	425 1,216	8 256	160	132 238	232 591	1,310 4,013
Net output Average	operatives	No.	2,081	20,733	13,574	3,365	32,126 25,021	3,045 1,682	2,896		19,713	103,230 86,947
number of 4	others	"	587	5,130	2,866	522	6,811	715	369	1,319		22,897
Net output per pemployed (a)		£	995	788	815	1,185	1,009	1,266	1,709	762	1,062	109,874
Wages and	of operatives	£,000	811	10,759	7,136	1,312	12,404	811	591	2,595	6,724	43,142
Capital expendi			393	3,050	1,772	365	3,867	493	251	820	2.876	13,886
New building Plant and	cquis-		99	556	94	82	431	21	32	25	330	1,592
	itions (b) disposals acquis-		1	2,164	11	3	2,587	59	161	341	706 59	6,809 358
Vehicles {	itions (b)		14 6	88 16	79 27	54 14	220 53	40 13	23	17 6	87 27	620 170

(a) Excluding outworkers and including working proprietors.(b) Excluding expenditure for establishments not yet in production.

(88169)

NON-FERROUS METALS (SMELTING, ROLLING, ETC.)

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

9,022

940

ABLE 5	195	11	X X	1954	
	Quantity	Value	Quantity	Value	Entries
	Th.tons	£,000	Th. tons	£,000	Number
ight metal and light metal alloys					
Aluminium and aluminium alloys					
Virgin ingots and notch bars	1	1	14.1	2.247	
Virgin and secondary based ingots, notch bars and sticks	135.6	18,174	98.4	16,000	40
Blocks, slabs, billets and wire bars	40.6	5.591	35.1	5,884	15
Sheets, plates and strip (flat or in coil), exceeding 0.006 inch in thickness		palba			
Pure	69.3	14,291	69.9	16,646	16
Alloy					A Section
Corrugated	10.9	2,363	8.9	1,944	6
Other	53.2	13,961	40.6	12,396	16
Discs, circles and slugs, exceeding 0.006 inch in thickness	11053				
Pure	14.2	3,434	16.6	4,393	9
Alloy	1.1	280	1.2	327	9
	Th.cwt.		Th.cwt.		la barria
Foil (strip, etc., not exceeding 0.006 inch in thickness)	255.7	5,554	300.8	7,152	11
Bars (other than notch bars and wire bars), rods, angles, shapes and sections	Th.tons		Th. tons		e Barrio
Pure	5.6	1,174	11.8	2,719	8
Alloy	28.1	7,512	29.0	9,267	11
Tubes					
Extruded		1 100035873940	gen extent to		
Pure	0.7	236	0.4	206	8
Alloy	2.4	577	2.4	721	11
Drawn					
Pure	1.1	437	1.1	433	8
Alloy	3.5	1,687	4.6	2,253	12
	Th.cwt.		Th.cwt.		
Collapsible tubes of aluminium	10.2	296	4.9	369	9
Collupsible cases of alamana		433	T) .	1,111	b
	Th.tons	22.006	Th.tons	24,144	309
Castings	4.9	3,299	5.3	4,999	18
Forgings and stampings	5.1	824	4.5	899	6
Powder, flake and granulated	3.1	024	4.5	833	
Other manufactures of aluminium and aluminium alloys, except wire and domestic ware	0.7	214 1,135	0.6	268 535	3 29
Total aluminium and alumium alloys					
and manufactures thereof		103,477		114,913	
Magnesium and magnesium alloys	Th.cwt.		Th.cwt.		
Castings	76.4	2,081	75.5	3,608	8
Ingots, sticks, slabs and billets and other manufactures of magnesium and	164.8	2,423	177.0	2,854	7
magnesium alloys	104.0	2,420	1,7,60	2,001	
Total magnesium and magnesium					

TABLE 5 (contd.)

(88169)

	19	51		1954	
	Quanti ty	Value	Quan ti ty	Value	Entrie
ther non-ferrous metals and alloys	1 of 25 Result	£,000	Th.cwt.	£,000	Number
Antimony					
Regulus and refined			78.0	700	1
		(a) {	70.0	783	5
Manufactures of antimony, other than antimonial lead]	1	21.7	189	
Bismuth (metal) not including alloys of bismuth	Th.1b.	848	Th.1b.	845	2 202JJ
Brass and other copper alloys, including nickel silver and cupro-nickel, but excluding all other nickel alloys			1,0,0.0	043	100
Ingots, blocks, slabs, billets, bars (including wire bars) other refinery shapes and cast strip	Th.tons		Th.tons	the second	
Brass including manganese bronze	ו	4	54.8	10,997	59
Other	134.7	32,911		LANCE OF STREET	33
	1 34	(51.1	12,419	36
Plates, sheets, foil, strip, discs and circles	67.9	18,307	68.6	18,687	49
Round brass rods	59.6	14,955	94.3	21,329	24
Shapes and angles	13.5	3,678	19.0	5,159	19
Other rods and sections and wire not in					
coils Tubes	51.0	13,520	12.1	3,327	19
Solid drawn of circular section	Th.cwt.	F 000	Th.cwt.		
and the second s	301.4	5,609	380.1	7,991	38
Other	12.3	283	8.0	151	14
Other manufactures of brass and other copper alloys, except castings and wire in coils	74.3	1,252	119.5	1,687 251	} 24
Total brass etc. and manufactures thereof		90,646		82,033	
	Th.lb.		m,	02,000	
Cadmium	524.9	491(b)	Th.1b. 431.3	256	5
Copper	THEOLOGY				
Unwrought: ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes, including rough copper of 94 per cent. copper content or over	Amr. (4.49)				
Fire refined	Th.tons	7 000	Th. tons	03 455	
Other	6.9	7,089	126.2 44.8	31,455	19
High conductivity strip	12.0	3,485	15.8	11,220	17
Plates, sheets or strip (other than of high conductivity)		0,400	13.0	4,931	10
3/8 inch thick and over	7.8	2,181	5.8	1,911	11
Other sheets, strip, foil, discs and circles	41.8	11,681	34.9	11,063	28
Strip not exceeding 6 inch in width (high conductivity and other), unclassified	11.2	3,179	13.9	4,669	8
Rods and sections, shapes and angles, and wire not in coils					
Wire rods					
High conductivity	55.5	12.802	90.4	24,415	8

TABLE 5 (contd.)

	19	51	1954			
The state of the s	Quan ti ty	Value	Quantity	Value	Entries	
	Th.tons	£,000	Th.tons	£,000	Number	
er non-ferrous metals and alloys (contd.)			446730 388			
Copper (contd.)						
Rods and sections, shapes and angles, and wire not in coils (contd.)				005		
Shapes and angles	1.9	606	3.0	995		
Other rods and sections and wire not in coils						
Rolled	2.1	548	1.6	501		
Extruded	2.1	621	3.8	1,244	11 8	
Unclassified	29.1	6,962	44.9	12,450	7	
Tube shells	13.2	3,154	3.0	848	1	
Tubes				10.007	36	
Solid drawn, of circular section	11.9	13,584	46.9	16,607	200	
Other	0.7	331 360	0.4	223 94	10	
Copper castings, other than engineers' and mechanicians' goods	0.9	317	0.6	251	8	
Other manufactures of copper, except wire in coils and engineers' and mechanicians' goods	5.9	1,657	7.1	2,144 299	} 22	
Total copper and manufactures thereof		70,499		125,445		
Lead and lead alloys and laminated lead						
Lead unwrought in pigs, ingots, blocks, bars, slabs and cakes	75.8	11.055	92.2	9,122	50	
	Th.cwt.		Th.cwt.			
Antimonial and tinny lead unwrought	1,036.6	9,192	757.8	4.126	28	
	Th. tons	0.504	Th.tons	5,101	27	
Sheet	37.8	6,594	25.0	3, 296	32	
Pipes	23.6	4,364	1.3	213	5	
Foil	1.2	249		213	3	
	Th.cwt.	425	Th.cwt.	205	h	
Collapsible tubes	{ 23.2	282	10.0	449	8	
Lead shot	52.4(b)	484	34.5	248		
	116.5	1,509	62.8	666	39	
Other manufactures of lead	Ų	376	•••	84	7	
Total lead and manufactures thereof		34,532		23,510		
Manganese metal	19.5	198	26.4	306	•••	
Nickel and nickel alloys (other than nickel silver and cupro-nickel)	Th.tons		Th.tons	epa es		
Ingots, billets, cathodes, bars, rods, plates, sheets, strip, foil, etc.	28.3	14,012 346	} 33.3	19,410	17	
Other manufactures, except wire of nickel alloys	5.2	2,981	5.6	4,191	} 23	
Total nickel and nickel alloys, and manufactures thereof		17,458		24,535		
Tin and tin alloys						
Tin in blocks, ingots, bars and slabs	28.4	28,036	28.9	20,917	18	
lin in blocks, ingots, buts and stabs	22.2	11,165	21.3	7,493	36	

TABLE 5 (contd.)

200		19	51		1954			
	1	Quan ti ty	Value	Quantity	Value	Entries		
		Th. tons	£,000	Th. tons	£,000	Number		
Other non-ferrous metals and alloys (contd.)				No. of the State o				
Tin and tin alloys (contd.)			500					
Foil		0.6	568	0.3	272	•••		
	4	Th.cwt. 2.5	175	Th.cwt.	51	h		
Collapsible tubes	4		243		508	7		
Other manufactures of tin		6.3	482	3.0	198	12		
Total tin and manufactures thereof			40,669		29,440			
		Th.1b.		Th.lb.				
Tungsten, in all forms except ferro-tungsten		576.2	1,239	635.3	974	1 6		
	-			• • •	154	P		
Zinc or spelter		Th. tons		Th. tons		A TOTAL		
Unwrought, in ingots, blocks, bars, slabs				armen and an	CO TO SERVER			
and cakes		71.8	11,734	86.3	6,931	17		
Sheets, strip, plates, foil, discs and circles		14.2	3,184	16.2	2,152	8		
CITCLES		Th.cwt.	3,104	Th.cwt.	2,132	8		
Zinc aust		212.4	2,153	179.9	909	7		
Zinc alloy ingots (for die-casting)		667.8	6,194	811.1	4,203	6		
Zinc alloy pressure die-casting except								
coffin furniture		408.4	6,995	379.0	5,565	62		
Other manufactures of zinc	1	21.6	289 87	23.4	136] 11		
	4	••		•••				
Total zinc and manufactures thereof	1		30,636		19,917	<u> </u>		
White metal alloys (c)		Th. tons		Th. tons				
Unwrought or partly wrought								
Anti-friction metal		5.1	4,054	3.1	1.645	26		
Type-metal		9.8	2,239	12.6	1,836	13		
		Th.cwt.	2,200	Th.cwt.	1,000	13		
Other sorts		74.4	1.886	18.1	359	14		
Wrought or manufactured								
Printing type	1	11.2	338 125	13.3	465	6		
Other manufactures	٦	1.5	43	0.2	6			
		1.5	43	0.2	0			
Total white metal alloys and manufactures thereof		***	8,685		4,311			
	Ī	Th.1b.		Th.lb.	And a list office			
Hard metal powders (including tungsten		430.8	1,095(d)	40.3	85	h		
carbide powder and matrix)	4	•••	149		54	1		
	c	Th.tons	141	Th.tons	91	h		
Metallic packings (d)	1		173	0.2	180	6		
Flexible metallic tubing of non-ferrous metal (d)	-	}	0.850	0.6	769			
Metals and alloys of metals and manufactures			3,756	14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12.00			
thereof not elsewhere specified	-				1,973	20		
Concentrates, metallic residues, wastes, etc. not elsewhere specified		147.3	3,800	241.4	2,464 548	168		

TABLE 5 (contd.)

TABLE C	19	51		1954	
Charles Total Control of the Control	Quan ti ty	Value	Quan ti ty	Value	Entries
		£,000		£,000	Number
Work done for the trade or on commission (e)		19-19-19-19-19			
Casting of ingots, billets, etc. of brass and other copper alloys		582		95	18
Rolling of copper, brass and other copper					
alloys (including nickel silver and cupro- nickel, but excluding all other nickel alloys)		95		159	18
Other work		1.836		2,835	89
Repair work (e)		138		75	12
Total		415,647(b)		443,400	
Sales in other industries (see Table 6)		33,606		31,319	
Principal products of this industry sold by establishments in the industry		382,041(b)		412,081	415
 (a) Not recorded separately. (b) Amended figure. (c) Alloys of tin, lead, zinc, antimony, etc. (d) So far as recorded separately. (e) Amount charged. 	c., not elsewh	ere specified.			

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

Larger establishments in the United Kingdom

TABLE 6

1954			Principal	
Quantity	Value	Entries	industries in which produced (a)	
Th.cwt.	£,000	Number		
4.6	155 243	}	4L, 5K, 10F	
Th.tons	2,495	175	3B, 3C, 4B, 5F	
		13	4I. 5C. 5E. 5F	
0.4	1 333	15	41, 00, 01, 01	
10.9	1,988	} 25	3D, 4L, 5D, 5E	
2	5,986			
Th.cwt.				
48.5	477		2E	
Th. tons				
] 10.8	2,538	8.	4N, 5D, 5F, 5K	
0.5	181		5D, 5E	
	Th.cwt. 4.6 Th.tons 5.8 0.4 10.9 Th.cwt. 48.5 Th.tons	Th.cwt. £'000 4.6 155 243 Th.tons 5.8 2.495 448 0.4 333 10.9 1.988 324 5.986 Th.cwt. 48.5 477 Th.tons	Th.cwt. £'000 Number 4.6	

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TABLE 6 (contd.)

		1954		Principal industries in
	Quantity	Value	Entries	which produced (a
ther non-ferrous metals and alloys (contd.)	Th. tons	£,000	Number	
Brass and other copper alloys, including nickel silver and cupro-nickel, but excluding all other nickel alloys (contd.)		Carries rules	6 15 18 16 2 9 18 16 8 6 18 18 18	stract to pusted and strategies
Round brass rods	h	11 AND 1840 3850		
Shapes and angles	3.6	902	7	5D, 5E, 5F
Other rods and sections and wire not in coils Tubes	Th.cwt.			
Solid drawn of circular section	h .			
	0.9	391	6	3F, 4B, 5D, 5F
Other	1	ative (personal bank)		diera diagnostica
Other manufactures of brass and other copper alloys, except castings and wire in coils	0.1	2 113	}	4L, 5K
Total brass etc. and manufactures thereof		4,148		1 Berkstein (C)
Copper	Th. tons	a Character and	- Name of	
Unwrought: ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes, including rough		2,840	5	4L, 5D, 5K
copper of 94 per cent. copper content or over Plates, sheets or strip (including high	3.9	1,210		4L, 5K
conductivity strip) Rods and sections, shapes and angles, and wire	South a ser beat	Taraka III	- 8	4K, 4L, 5D
not in coils	34.0	9,196	h	
Other manufactures of copper, except wire in coils and engineers' and mechanicians' goods	11.4	370	10	2E, 4B, 4L, 5D
Total copper and manufactures: thereof		17,307		Womestile hells
Lead unwrought in pigs, ingots, blocks, bars, slabs and cakes, and manufactures thereof	Th.cwt. 15.0	132 167	} 14	2E, 4F, 4I, 5E
	Th.tons			
Nickel and nickel alloys (other than nickel silver and cupro-nickel), and manufactures thereof, except wire of nickel alloys	0.3	241 773	12	2E, 4B, 4L, 5D
Tin in blocks, ingots, bars and slabs, and	0.2	118	15	AD 50 5W
Tin in blocks, ingots, bars and sidbs, and manufactures thereof	{	37	}	3E, 5E, 5K
Zinc or spelter				
Sheets, strip, plates, foil, discs and circles, and zinc dust	3.2 Th.cwt.	372	6	2E, 4N, 5E
Zinc alloy pressure die-casting except coffin furniture	{	128 252] 13	4B, 4I, 5F, 5G
Other manufactures of zinc	0.2	6 3	}	ideals there
Total zinc and manufactures thereof		761		
White metal alloys				
Unwrought or partly wrought, other than type-metal	0.4	17	} 5	4I, 5F
Wrought or manufactured	0.2	5 7	}	10K
Total white metal alloys and manufactures thereof		32		
	Th.lb.			
Bismuth; cadmium; manganese metal; and tungsten in all forms except ferro-tungsten	349.2	235		3B, 5K

TABLE 6 (contd.)

shee.	72 244 5 24	1954			
	Quantity	Value	Entries	industries in which produced (a	
	Th. tons	£,000	Number		
Other non-ferrous metals and alloys (contd.)				The Market State	
Metals and alloys of metals and manufactures thereof not elsewhere specified	0.5	261 224	12	2E, 3B, 4C, 5K	
Miscellaneous manufactures, etc., other than concentrates, metallic residues, wastes, etc.		393	11	2E, 4C, 4I, 7A	
not elsewhere specified Work done for the trade or on commission (b)	egotin la t	25		feds he organisa	
Total		31,319		the team	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

(b) Amount charged.

Sales in the industry of other than principal products Larger establishments in the United Kingdom

TABLE 7

	1954			
	Quantity	Value		
Aluminium and aluminium alloys	Th.cwt.	£,000		
Wire				
Pure	5.6	81 -		
Alloy	11.8	256		
Domestic hollow-ware and other manufactures		148		
Brass and other copper alloys, including nickel silver and cupro-nickel, but excluding all other nickel alloys				
Wire in coils	12 Aug 45	All the least their		
Circular section, thinner than No.20 gauge (Imperial standard wire gauge)	Th. tons	anto his co-dimets		
Of brass	0.2	91		
Of other alloys of copper	0.1	61		
Circular section, No.20 gauge (Imperial standard wire gauge)	h			
and thicker, of brass, and of other alloys of copper	7.1	1,906		
Other descriptions (including stranded wire)	V			
Rough castings	2.5	1,145		
Engineers' and mechanicians' goods (including fittings for water supply)	1.9	1,517		
Other manufactures		2,342		
Copper wire in coils (including uninsulated electric wire)				
and other manufactures	14.4	4,328		
Wire of non-ferrous metals other than aluminium, and copper	Th.cwt.	er sein meren die er eine		
and alloys	43.0	1,926		
Iron and steel	Th. tons			
Iron castings	1.6	163		
	4	The state of the s		
Other manufactures	{ 10.3 	4,140		
Paper coated or faced on one or both sides with metal in	d 47.0	705		
sheet, strip, foil or leaf form	1	667		
Engineers' small tools and parts thereof		1,188		
Machinery and other engineering products		2,859		
Chemical manufactures		6,838		
Paints, varnishes and enamels		839		

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TABLE 7 (contd.)

	1954		
The first state of the state of	Quantity	Value	
The second secon		£,000	
Other goods	Galament wester been	10,563	
Scrap metals sold	Th. tons	The execute hor alone	
Aluminium and aluminium alloys	18.0	1,667	
Copper	13.3	3,121	
Brass and other copper alloys, including nickel silver and cupro-nickel but excluding all other nickel alloys	13.7	2,227	
Lead	1.4	125 37	
Zinc	1.1	75	
Iron and steel	104.5	693	
Other metals	3.7	1,161	
ork done for the trade or on commission (a)		170	
To tal	A CONTRACTOR CHIEF TO	51,567	

⁽a) Amount charged.

Total make of intermediate products Larger establishments in the United Kingdom

TABLE 8

	Returned	in this in	dustry	Returned	in all indu	stries
	1951	1954		1951	1954	
	Quantity	Quantity	Entries	Quantity	Quantity	Entries
ight metal and light metal alloys	Th. tons	Th. tons	Number	Th. tons	Th.tons	Number
Aluminium and aluminium alloys	100000	13. 10. 10. 10		Automotive and	Cost tolege	
Virgin ingots and notch bars	h 1	14.2		1	14.2	
Virgin and secondary based ingots, notch	(a)	(a)		153.1	124.3	
Blocks, slabs, billets and wire bars (b)	(a)	300.8	19	340.5		44
Sheets, plates and strip (flat or in coils), exceeding 0.006 inch in thickness	(4)	300.8		340.3	300.8	19
Pure	(a)	(a)		93.2	103.0	13
Alloy						10
Corrugated	10.6	(a)		10.6	9.6	6
Other	(a)	(a)		58.0	41.7	16
Discs, circles and slugs, exceeding 0.006 inch in thickness				1001025		
Pu re	(a)	17.1	9	14.2	17.1	9
Alloy	(a)	1.2	9	1.1	1.2	9
Tubes						
Extruded				40		
Pure	1.0	0.8	1	1.0	0.8	8
Alloy	(a)	4.6		4.2	4.6	11
Drawn						
Pure	1.1	0.9		1.1	0.9	7
Alloy	3.5	4.6	1	3.5	4.6	12
Powder, flake and granulated	(a)	5.1	6	5.1	5.1	6

TABLE 8 (contd.)

TABLE 8 (contd.)						
	Returned	in this ind	ustry	Returned	in all indus	tries
	1951	1954		1951	1954	
	Quantity	Quantity	Entries	Quantity	Quantity	Entries
The second secon	Th.tons	Th.tons	Number	Th.tons	Th. tons	Number
Other non-ferrous metals and alloys				940	the act been	
Brass and other copper alloys, including nickel silver and cupro-nickel, but excluding all other nickel alloys	27.9	tabl	200.23	od verokak .	recta reside	
Ingots, blocks, slabs, billets, bars (including wire bars) other refinery shapes and cast strip (b)	a modely	estople of	1925 15	resideo, i	es/ene se d do adode ota (12/10/96 k)	one Sin
Brass, including manganese bronze	330.2	278.3	58	343.5	284.7	63
Other	P	(a)) l	71.8	42
Direct castings not included above	G.SI				107.00-0033	
Brass, including manganese bronze	1 [2.8	10	\mathbb{R} , of	2.8	10
Other	1.8	0.5		1.8	0.5	
Plates, sheets, foil, strip, discs and circles	73.6	80.6		75.3	81.1	47
Round brass rods	(a)	(a)	BR	60.9	93.8	20
Shapes and angles	(a)	18.7		13.6	18.7	15
Other rods and sections and wire not in coils	50.9	13.0		52.1	13.0	17
Unclassified rods, sections, shapes, angles, and wire not in coils				3.3	3.8	6
Copper						
Unwrought: ingots, blocks, slabs, bars, billets, cakes, cathodes and anodes, including rough copper of 94 per cent, copper content or over (b)			and Lin	ioree foot the substant	the offers	rapad rapad ola
Fire refined	119.7	246.9		135.2	247.5	25
Other	(a)	(a)		30.9	85.4	22
High conductivity strip	(a)	(a)	1	12.6	16.5	11
Plates, sheets or strip (other than of high conductivity)	2500 20	aputs sel	100		easts when	
3/8 inch thick and over	(a)	(a)		8.4	5.7	10
Other sheets, strip foil, discs and circles	(a)	(a)		41.7	36.2	28
Strip not exceeding 6 inch in width (high conductivity and other) unclassified		(a)		11.2	12.2	200
Rods and sections, shapes and angles, and wire not in coils				deal metals	en eno colo	i ali
Wire rods	Plant Start Fill	lesols pol			1000 1000 8	1000
High conductivity	59.8	93.2	6	59.8	93.2	6
Other	(a)	(a)		1.0	0.3	
Shapes and angles	1.9	3.2	2000.00	1.9	3.2	
Other rods and sections and wire not in coils	D-ske	egite people	adere es	Light hos 8	GEORGE THE	10
Rolled	2.7	(a)		2.7	1.7	
Extruded	(a)	3.9	11	2.1	3.9	11
Unclassified rods and sections, shapes and angles, wire not in coils and strip	-lo -v	23.6		90.1	95.0	9
Tube shells	53.4	60.1	11	53.4	60.1	11
Lead unwrought in pigs, ingots, blocks, bars, slabs and cakes	(a)	(a)		115.8	129.2	51
	X!	1 42	zl s span s	les segues y	1	1000

TABLE 8 (contd.)

	Returned in this industry			Returned in all industries		
APE: 17201 APC	1951	1951 1954		1951	1954	
and a second	Quantity	Quantity	Entries	Quantity	Quantity	Entries
Other non-ferrous metals and alloys (contd.)	Th.tons	Th. tons	Number	Th. tons	Th.tons	Number
Tin and tin alloys			L STOLE	a han alakes	2827291-20	Tearle
Tin in blocks, ingots, bars and slabs	27.9	30.3	1	27.9	30.3	90
Solder, soft	(a)	21.6	36	22.4	21.6	36
Zinc or spelter, unwrought, in ingots, blocks, bars, slabs and cakes	(a)	86.0	20	72.4	86.0	20
White metal alloys					inta dana bi	
Unwrought or partly wrought			40.0000 00	empress pett	uladi sejeri	
Anti-friction metal	4.7	3.3		5.2	3.3	26
Type-metal	10.0	13.1	13	10.0	13.1	13

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

(b) Some duplication may be involved owing to inclusion of the same products at different stages of manufacture.

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

TABLE 9

	Quantity	Cost
aterials	Th, tons	£,000
Light metals and light metal alloys	areas February	TEST ANSWERS WINDS
Aluminium and aluminium alloys	igin sikopangun ki ja ka	lyen kitches and thussel
Ingots and notch bars, virgin	175.0	07 770
Ingots, notch bars and sticks, secondary	45.5	27.779
Blocks, slabs, billets and wire bars	65.7	7,402
Sheets, plates, strip, discs, circles, slugs and foil	24.7	10,893
		5,205
All other descriptions except finished parts and scrap	2.5	631 417
Magnesium ore and magnesia	in . Der webie . Bot	Mint at the state of the state of
Magnesium and magnesium alloys	12.0	2,781
Other non-ferrous metals and alloys	pailtasolons (vs	
Antimony ore and concentrates	bies estate bee and	
Brass and other copper alloys including nickel silver and	4.1	354
cupro-nickel, but excluding all other nickel alloys	7	abor erin
Ingots, blocks, slabs, billets, bars (including wire		
bars) and cast-strip	25.2	5,172
Plates, sheets, strip (other than broken down strip), discs, circles and foil		Service name and our
Other descriptions including broken down strip and	1.9	504
tube shells but excluding finished parts and scrap	5.8	1,533
Copper blister	126.2	30,206
Copper unwrought: ingots, blocks, slabs, bars, billets,	one avoids apparent	as abon sort to active
cakes, cathodes and anodes including rough copper of 94% copper content or over	quare to allow	
Fire refined	7.70	sileda edal
Other	95.7	22,808
High conductivity copper rods and strip	179.2	45,996
Copper plates, sheets, strip, discs and circles (other	4.9	1,266
than of high conductivity)	0.4	154
Other descriptions of copper including broken down copper cake and tube shells but excluding finished parts and		104
scrap	6.2	1,776

Cost Quantity Th. tons £,000 Materials (contd.) Other non-ferrous metals and alloys (contd.) Lead and lead alloys Lead unwrought in pigs, ingots, blocks, bars, slabs 4,812 49.6 Imported virgin lead 387 4.0 Re-melted lead English refined lead including lead refined from 17.7 1,769 imported base bullion 5,929 44.1 Other descriptions except finished parts and scrap Nickel and nickel alloys, other than nickel silver and 9,501 cupro-nickel, in all forms except finished parts and scrap 17.5 Tin ore and concentrates 66.9 22,900 Tin in all forms except finished parts and scrap Zinc and zinc alloys 5,757 63.6 Zinc of not less than 99.99% purity Other electrolytic and refined zinc, and low grade prime 53.0 4,710 western, debased and G.O.B. zinc 123 1.5 Re-melted 447 5.1 Other descriptions except finished parts and scrap Alloying materials not elsewhere specified, e.g. silicon, 2,117 10.6 titanium chrome Scrap (including all forms of scrap material and secondary material purchased, not elsewhere specified) Aluminium and aluminium alloys (including secondary ingots 10.773 101.2 27,337 Brass and other copper alloys, including nickel silver and 172.0 3,428 cupro-nickel, but excluding all other nickel alloys 26,439 148.0 Copper 268 12,057 140.0 13.1 2,240 Tin 313 7.2 227 3.6 Zinc base alloys 124.2 4,698 10.0 777 Iron and steel in all forms except finished parts and scrap Th.cwt. Packing materials 41.2 240 Paper including paper sacks 43 Th.cu.ft. 393 629.0 Packing cases (wood or mainly of wood) 348 131 Jute (including hessian) piece goods and jute sacks and bags .. Other packing materials including iron and steel drums 611 Replacement parts for firms' own machinery, plant and 4,261 Consumable tools bought as replacement including engineers' 1,343 small tools, jigs, fixtures and measuring instruments 33,591 All other purchased materials .. Th. tons Fuel and electricity 2,589 638.8 Coal 1.302 223.6 Coke Liquid fuel (including creosote/pitch mixtures) For use in internal combustion engines Th.gal. Motor spirit (petrol) for use in road vehicles and 2,258 444 203 18 Other 44,490 1,941 For burning in furnaces, boilers, kilns, etc.

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(88169)

TABLE 9 (contd.)

NON-FERROUS METALS (SMELTING, ROLLING, ETC.)

	Quantity	Cost
Fuel and electricity (contd.) Gas purchased (a)	Th. therms	£,000
From Gas Boards	31,124	1,560
From other sources, including other departments of the same firms	408	17
Electricity purchased (b)	Th.kWh. 1,213,887	5,448
All other purchased fuel	Gelse Gese . Departs	146
Total cost		366,496

(a) The total quantity of gas produced amounted to 45,920 th. therms.

(b) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 290,006 Th.kWh.

Average number of employees and wages, salaries and superannuation TABLE 10 payments (a): Larger establishments in the United Kingdom

	1951	1954
Average number of employees	Number	Number
Operatives Administrative, technical and clerical employees	86,394 20,506	86,947 22,897
Total	106,900	109,844
Wages and salaries paid to	£,000	£'000
Operatives Administrative, technical and clerical employees	34,920 11,209	43,142 13,886
Total	46,129	57,028
Wages and salaries per head	£	£
Operatives Administrative, technical and clerical employees	404 547	496 606
Superannuation and other pension funds for employees and dependents (b)		£,000
Employers' contributions		1,656
Employees covered	•	Number 48,403
Pension, etc. payments to former employees and dependents (b)		£'000 187

(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):

	1951	1954
Canteen workers Males Females	Number 101 1,192	Number 98 1,212
Total Other workers	1,293	1,310
Males Females	295 225	442 162
Total	520	604
Total excluded employees	1,813	1,914

Outworkers. The firms in this industry employed 75 female outworkers in 1951, and 7 male and 183 female outworkers in 1954, the amounts paid to them being £6,000 and £12,000 respectively.

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

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

TARIE 11

	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	48	1	49	29	1	30
Operatives Administrative, technical and	73,558	13,570	87,128	75,712	13,653	89,365
clerical employees	13,665	7,187	20,852	15,336	7,882	23,218
Total employees	87,223	20,757	107,980	91,048	21,535	112,583

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

VOLUME 1

- 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 China and Earthenware
- Glass Containers
- Glass (other than Containers)
- Cement K Abrasives
- L. Building Materials 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 Explosives and Fireworks
 Paint and Varnish
- Soap, Candles and Glycerine
- Polishes
- M Match
- N. Mineral Oil Refining
- Oils and Greases 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)
- Electric Wires and Cables
- M. Radio and Telecommunications
 N. Batteries and Accumulators
 D. 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 Flax Processing
- Linen and Soft Hemp
- Jute
- Rope, Twine and Net Hosiery and Other Knitted Goods
- Ince
- Carpets
- Narrow Fabrics
- Canvas Goods and Sacks
- Textile Converting
 Made-up Household Textiles
- Textile Finishing
- Textile Packing

VOLUME 7

- A. Asbestos
 B. Flock and Rag
 C. Hair, Fibre and Kindred
- Industries
 D. Leather (Tanning and Dressing)
- E. Fellmongery
 F. Leather Goods
- G. Fur
- H. Tailoring, Dressmaking, etc.
- 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
- Milk Products Ice Cream
- Sugar and Glucose
- I. Cocoa, Chocolate and Sugar Confectionery
- J. Preserved Fruit and Vegetables

VOLUME 9

- A. Margarine
- Fish Curing
- Cattle, Dog and Poultry Foods Vinegar and Other Condiments
- Starch
- Miscellaneous Preserved Foods
- Brewing and Malting Wholesale Bottling
- Spirit Distilling K. Spirit Rectifying and
- Compounding
 L. Soft Drinks, British Wines and Cider

VOLUME 10

- A. Timber
- B. Furniture and Upholstery 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

- Linoleum, Leathercloth and
- Allied Industries
- C. Brushes and Brooms
- D. Toys and Games
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