

## 92 Cans and metal boxes

This Report on the Cans and Metal Boxes Industry relates to establishments engaged wholly or mainly in manufacturing tin and aluminium cans, metal boxes and other small metal containers and parts. Cash and deed boxes are excluded.

This industry corresponds to minimum list heading 395 in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 census. The definition of this industry however is unchanged from the last detailed Census of Production for 1963 in which it was reported (Part 72).

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions less disposals.

TABLE 1 Industry summary, 1963 and 1968  
United Kingdom (a) (b)

	Unit	All establishments		
		1963	1968	
Number of enterprises	No.	98	130	
Number of establishments	"	133	164	
Gross output	£'000	104,082	141,088	
Net output	"	29,995	42,652	
Net output per head	£	988	1,454	
Sales and work done	{ goods produced and work done (c) merchanted goods and canteen takings	£'000	103,065	139,561
		"	764	609
Purchases	{ materials for use in production and packaging, and fuel goods for merchenting and canteen purchases	"	70,299	94,721
		"	654	537
Payments to other organisations	{ for work done on materials given out for transport by road by rail and other means excluding postal services	"	503	968
		"	2,697	2,891
Stocks and work in progress	{ change during year at end of year	"	+ 317	+ 2,404
		"	17,516	20,327
Goods on hand for sale	{ change during year at end of year	"	+ 36	+ 357
		"	2,575	3,506
Work in progress	{ change during year at end of year	"	+ 217	+ 560
		"	4,044	4,281
Materials, stores and fuel	{ change during year at end of year	"	+ 65	+ 1,487
		"	10,896	12,540
Number employed on average during the year	{ total, including working proprietors	Th.	30.4	29.3
	{ operatives	"	24.9	24.3
	{ other employees (d)	"	5.3	4.9
Wages and salaries	{ of operatives	£'000	12,470	16,834
	{ of other employees (d)	"	4,883	6,010
Capital expenditure (e)				
Total	"	4,105	8,787	
New building work	"	481	1,763	
Land and existing buildings (f)	"	7	184	
Plant and machinery (f)	"	3,391	6,641	
Vehicles (f)	"	227	199	

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for about 3 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for about 1 per cent. For 1963 the comparable figures were 2 per cent. and under 1 per cent. respectively.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

	1963	1968
Number of establishments	49	85
Average number employed		
Working proprietors	63	77
Other persons employed	420	603

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TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Estab-lish-ments	Enter-prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
	Number	Number	Number	£'000	£'000	£
1-5	23	23	73	..	..	..
6-10	10	10	81	..	..	..
11-24	27	26	447	..	..	..
25-49	13	12	413	1,156	526	1,274
50-99	11	11	839	1,848	929	1,107
100-199	10	10	1,345	3,990	1,562	1,161
200-299	5	4	1,133	7,010	1,744	1,539
300-399	9	7	3,184	10,875	3,686	1,158
400 and over	25	9	21,518	111,917	32,903	1,529
Unsatisfactory returns	31	30	300	..	..	..
Total	164	130	29,333	141,088(c)	42,652(c)	1,454(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Employees		Wages and salaries		Wages and salaries per head	
	Oper-atives	Others (d)	Oper-atives	Others (d)	Oper-atives	Others (d)
	Number	Number	£'000	£'000	£	£
1-5	..	..	..	..	..	..
6-10	..	..	..	..	..	..
11-24	..	..	..	..	..	..
25-49	350	45	206	44	589	976
50-99	735	95	404	109	550	1,144
100-199	1,146	191	733	195	639	1,024
200-299	879	254	577	328	657	1,289
300-399	2,636	547	1,717	660	651	1,206
400 and over	17,867	3,652	12,721	4,507	712	1,234
Unsatisfactory returns	..	..	..	..	..	..
Total	24,298(c)	4,922(c)	16,834(c)	6,010(c)	693(c)	1,221(c)

(a) Including working proprietors.

(b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

(c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

(d) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	2	3	5
18 and over	45	50	95
All ages	47	53	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification, (Revised 1968).

TABLE 4 Summary of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

	Unit	1963	1968	
Number of enterprises	No.	44	44	
Number of establishments	"	78	75	
Gross output	£'000	101,761	136,879	
Net output	"	29,326	41,380	
Net output per head	£	988	1,454	
Sales and work done	{ goods produced and work done (b)	£'000	100,767	135,398
	{ merchanted goods and canteen takings	"	747	591
Index of specialisation (c)	Per cent.	93	93	
Purchases	{ materials for use in production and packaging, and fuel	£'000	68,731	91,896
	{ goods for merchenting and canteen purchases	"	639	521
Payments to other organisations	{ for work done on materials given out for transport	"	492	939
	{ by road	"	2,636	2,805
	{ by rail and other means excluding postal services	"		
Stocks and work in progress				
Goods on hand for sale	{ change during year	"	+ 35	+ 346
	{ at end of year	"	2,518	3,401
Work in progress	{ change during year	"	+ 212	+ 543
	{ at end of year	"	3,954	4,153
Materials, stores and fuel	{ change during year	"	+ 63	+ 1,442
	{ at end of year	"	10,653	12,166
Number employed on average during the year	{ total including working proprietors	No.	29,686	28,458
	{ operatives	"	24,433	23,635
	{ other employees (d)	"	5,223	4,787
Wages and salaries	{ of operatives	£'000	12,226	16,375
	{ of other employees (d)	"	4,782	5,845
Wages and salaries per head	{ operatives	£	500	693
	{ other employees (d)	"	916	1,221
Capital expenditure (e)				
New building work	£'000	470	1,711	
Land and existing buildings	{ acquisitions	"	10	179(f)
	{ disposals	"	3	
Plant and machinery	{ acquisitions	"	3,649	6,443(f)
	{ disposals	"	333	
Vehicles	{ acquisitions	"	280	275
	{ disposals	"	59	82

(a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 2 establishments in 1968 and 3 in 1963.

(b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).

(c) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.

(d) Administrative, technical and clerical employees.

(e) Excluding expenditure for establishments not yet in production.

(f) Acquisitions less disposals.

TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963		1968		Enter-prises	Entr-ies
	Quantity	Value	Quantity	Value		
	Th. tons	£'000	Th. tons	£'000	Number	Number
Cans and metal boxes made wholly or mainly from tinplate or blackplate (b)						
Complete						
Open top hermetically sealed	324	41,754	381	55,489	5	20
Other						
For food	56.2	9,710	77.0	13,395	35	52
	..	1,161	..	1,945		
For other products	109	20,109	139	27,126	65	84
	..	2,952	..	4,821		
Covers and other components, sold separately	..	7,859	..	9,355	12	21
Unclassified	..	197	-	-		
Cans and metal boxes, wholly or mainly of aluminium						
Complete	2.8	1,843	3.9	2,414	24	34
	..	426	..	1,164		
Covers and other components, sold separately	..	213	..	506	*	7
Tinned plates, sheets and strips, decorated, printed, etc, sold in the flat or partially shaped, for boxes and other containers	85.8	7,958	88.9	10,497	9	21
Other products	..	591	..	99	7	11
Waste products						
Scrap iron and steel	82.0	611	138	967	34	53
Scrap non-ferrous metals	..	186	3.9	248	16	31
			..	64		
Work done	..	579	..	1,095	*	16
Total		96,150		129,183	..	..
Sales in other industries (see Table 6)		2,630		3,602	..	..
Principal products of this industry sold by establishments in the industry		93,520		125,581	44	65(c)

(a) In addition to the sales shown the following quantities of cans and metal boxes were made in 1968 for their own use by firms making returns in the following industries:

	1963	1968
	Th. tons	Th. tons
Milk Products Industry	18.4	110.7
Cocoa, Chocolate and Sugar Confectionery Industry		
Fruit and Vegetable Products Industry		
Biscuits Industry	4.7	6.3
Sugar Industry		
Bacon Curing, Meat and Fish Products Industry		

(b) Tinplate was specifically included for 1963.

(c) This figure represents the total number of returns made for larger establishments in this industry, which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

	1963		1968			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
	Th. tons	£'000	Th. tons	£'000	Number	
Cans and metal boxes made wholly or mainly from tinplate or blackplate						
Complete						
Open top hermetically sealed						
Other	1.6	166				
For food	..	426				
For other products	3.8	734		163	6	62,70,82,97
..	..	616				
Covers and other components, sold separately			3.6	733	33	11,65,82,97
..	..		..	1,667		
Unclassified		87				
Complete cans and metal boxes made wholly or mainly of aluminium; and tinned plates, sheets and strips, decorated, printed etc, sold in the flat or partially shaped for boxes and other containers	2.6	238(b)	0.4	100	17	47,82,96,97
..	..	363	..	940		
Total		2,630		3,602	..	

(a) The references given are to the list of industries at the front of this report.

(b) Including covers and other components of cans and metal boxes made wholly or mainly of aluminium for 1963.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

	1963		1968	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Pressings in sheet metal				
Of iron and steel	5.8	808	..	1,228
Of aluminium and aluminium alloys	..	26	..	73
Domestic hollow-ware of metal, other than cans and metal boxes, but including dishes, trays, moulds and similar articles				
Of tinplate				
Of other metals	..	875	..	1,275
Industrial hollow-ware (excluding hollow-ware fitted with an electric element)				
New barrels, kegs and drums			5.6	1,991
Other industrial hollow-ware	..	2,766	..	2,484
..				565
Metallic closures for bottles, jars, cans and similar containers (excluding heavy grade steel closures, crown corks, covers for metal and composite containers and cork stoppers partially manufactured from metal)	..	461	..	771
Goods produced wholly or mainly of plastic materials				
Other goods produced and work done and services rendered to other organisations (a)	..	2,311	..	1,340
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	..	289	..	104
Canteen takings		458		487
Total		7,995		10,409

(a) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger establishments, 1963 and 1968

This table is not applicable to this industry.

TABLE 9 Purchases by larger establishments of selected principal products of the industry, 1968

This table is not applicable to this industry.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

	1963		1968	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
<b>Materials for use in production</b>				
<b>Steel</b>				
Tinplate and blackplate (a)	630	48,743	767	64,791
Sheets under 3mm. thick (including electrical sheets)	33.4	2,089	17.5	1,147
Iron and steel not elsewhere specified except finished parts, wire and scrap	1.8	132	17.7	1,034
Aluminium and aluminium alloys in all forms except finished parts, wire and scrap	2.8	919	6.1	2,225
Solder	..	(b)	..	1,128
<b>Purchased components for goods produced for sale</b>				
Ends, lids and other metal components for cans and metal boxes	..	7,757	..	10,374
Other	..	678	..	816
Plating compounds	..	548	..	1
Lining compounds	..		..	693
Paint and varnish (including lacquers and stains)	Th. gal. 1,359	1,771	Th. gal. 1,792	2,677
Printers' ink	..	263	..	410
<b>General chemicals (c)</b>				
Inorganic (including inorganic gases)	..	19	..	12
Organic (including organic gases) and other (eg mixtures of inorganic and organic chemicals)	..		..	42
Lubricating oils and greases (including cutting oils and emulsions)	75.9	22	114	36
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	..	7	..	8
Tyres and other spare parts for firms' own road goods vehicles	..	1,403	..	94
Other	..		..	1,175
All other materials for use in production	..	1,978	..	2,116
<b>Packaging materials</b>				
<b>Paper and board</b>				
Fibreboard packing cases	..	803	..	593
Paper and board for converting into packaging materials	..		..	248
All other packaging materials	..	..	..	277

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
<b>Fuel and electricity</b>				
Coal	17.8	101	11.3	74
Coke (including screenings) and manufactured fuel	2.0	17	1.0	13
Derv fuel and motor spirit for use in road vehicles	Th. gal. 789	157	Th. gal. 860	213
Other liquid fuels (including creosote/pitch mixtures, etc. and liquefied petroleum gases)	2,775	164	4,458	198
Gas	Th. therms 8,771	638	Th. therms 448	39
	Th. kWh 82,553		Th. kWh 33,324	507
Electricity	..	523	..	284
All other fuels	..		..	24
Total cost of materials and fuel		68,731		91,896
Goods purchased for merchandising		252		89
Canteen purchases		387		432
Total cost of purchases		69,370		92,417

(a) Tinplate was specifically included for 1963.

(b) Not separately recorded for 1963.

(c) For 1963 described as 'Heavy Chemicals'.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

	Unit	1963	1968
Average number mainly employed on transport	No.	475	534
<b>Transport costs</b>			
Wages and salaries	£'000	387	593
Derv fuel and motor spirit	"	157	213
Tyres and other spare parts for road goods vehicles	"	..	94
Payments to other organisations for transport	"	2,636	2,805
{ by road	"		781
{ by rail and other means excluding postal services	"		
<b>Costs of operating road goods vehicles</b>			
Insurance	"	14	23
Vehicle licences	"	27	62
Depreciation	"	112	130
Payments to other organisations for repairs and maintenance	"	46	100
Total	"	3,379 (a)	4,800

(a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

	Amounts payable	
	1963	1968
Repairs and maintenance to	£'000	£'000
Buildings	125	143
Road goods vehicles	46	100
Plant, machinery and other capital equipment	254	345
Insurance, licensing and depreciation of road goods vehicles (b)	153	215
Rates, excluding water rates	457	675
Hire of plant and machinery	21	239
Postage, telephone, telegrams, cables and telex (c)	187	249
<b>Total</b>	<b>1,243</b>	<b>1,965</b>

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.

(b) For details see Table 11.

(c) Excluding Telex for 1963.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons:  
Analysis of returns received, United Kingdom

Year ended	Percentage of total returns received	Percentage of total number employed
1968	Per cent.	Per cent.
April (a)	6.2	2.6
May	3.1	0.7
June	4.6	1.0
July	0.0	0.0
August	0.0	0.0
September	9.2	4.2
October	3.1	0.2
November	6.2	3.2
December	52.3	80.4
1969		
January	3.1	1.6
February	0.0	0.0
March	12.3	6.2
April (b)	0.0	0.0
<b>Total</b>	<b>100</b>	<b>100</b>

(a) From 6 April.

(b) To 5 April.