

64 Industrial (including process) plant and steelwork

This Report on the Industrial (including Process) Plant and Steelwork Industry relates to establishments engaged wholly or mainly in manufacturing steam raising boilers of all types and accessories such as mechanical stokers, but not including marine boilers and hot water boilers cast in sections; process plant and other industrial plant including lime and cement kilns, gas plant, sintering plant, metallurgical and other furnaces and other metal manufacturing plant (excluding rolling mills), de-greasing and coating plant, chemical, petro-chemical and oil refining plant, nuclear reactors, water and sewage treatment plant; structural iron and steelwork for buildings and bridges (including similar work in other metals) and pre-fabricated buildings of steel and other metals; heavy iron and steelwork (including similar work in other metals) other than for structural uses, including storage tanks, spheres, process pressure vessels, heat exchangers, pipes, chimneys, bunkers, bins and hoppers. Parts of industrial (including process) plant and steelwork are included but industrial hollow-ware is not. Contractors responsible for the design, engineering, procurement, construction and commissioning of complete plants for process industries such as chemicals, petro-chemicals, oil refining and gas are included, (but firms and consulting engineers responsible for only some of these functions are excluded).

This industry corresponds to minimum list heading 341 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 50), but the treatment of parts has been altered considerably for 1968 for this and other mechanical engineering industries. The distinction made in the 1963 reports between parts sold in association with the sale of complete machines, and other parts sold, has been discontinued for 1968 and all parts are now treated in the same way as complete machines for classification, ie as principal products of their respective mechanical engineering industries and shown in Table 5. In addition, contractors responsible for the design, engineering, procurement, construction and commissioning of complete plants for process industries such as chemicals, petro-chemicals, oil refining and gas are included for 1968 and shown separately as a sub-division in Table 4 but were not so included for 1963. Steam generating plant is included in the census coverage of process plant but is not so specified in the Standard Industrial Classification (Revised) 1968.

Throughout this Report, the figures given for 1963 have been reclassified, as far as possible, according to the Standard Industrial Classification (Revised 1968) and to take account of the different treatment of parts adopted for 1968, so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms, which provided limited information only, has been arbitrary.

METHOD OF CLASSIFICATION

In classifying returns to this industry the value of unspecified work done (other than structural and installation work) including repair work, was not taken into account unless it amounted to 80 per cent. or more of the total output of the return in which case the return was classified to the General Mechanical Engineering Industry (Part 66). The amount charged for erecting and installing machinery and plant (other than air conditioning, heating and ventilating plant) was treated as part of the selling value of these items in determining the industrial classification of returns. The standard classification procedure as outlined in the notes on page (i) was further modified where a return would have been classified to one of the mechanical engineering industries relating to a specific class of machinery (viz Parts 50 to 66) but where the sales of the principal products of the industry concerned (including parts) accounted for less than 20 per cent. of the total output: in such cases the return was classified to the residual sub-division of the General Mechanical Engineering Industry (Part 66). The classification of returns to sub-divisions of the industry, shown in Table 4, followed the standard procedure.

The sales of characteristic products shown in Table 4 include, besides the value of complete industrial (including process) plant and steelwork and parts which were taken into account in classifying returns, the value of installation work.

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).

LIST OF TABLES

Table No.	Title	Page
SECTION I - Estimates for all establishments in the industry		
1	Industry summary, 1963 and 1968	64/3
2	Analysis by size of establishment within the industry, 1968	64/4
3	Percentage analysis of employees, by age and sex, 1969	64/5
SECTION II - Analysis of returns received		
4	Analysis of larger establishments, 1963 and 1968	64/6
5	Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968	64/8
6	Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968	64/13
7	Sales of other than principal products by larger establishments in the industry, 1963 and 1968	64/16
8	Production of certain principal products of the industry by larger establishments, 1963 and 1968	DOES NOT APPLY
9	Purchases by larger establishments of selected principal products of the industry, 1968	DOES NOT APPLY
10	Purchases by larger establishments in the industry, 1963 and 1968	64/19
11	Transport costs and employment of larger establishments, 1963 and 1968	64/22
12	Payments for certain services, etc by larger establishments, 1963 and 1968	64/22
13	Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968	64/23

Footnotes to Table 1.

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 7 per cent. of the total figures in which they were incorporated; of this, unsatisfactory returns accounted for 2 per cent. For 1963 the comparable figures were 6 per cent. and 2 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	553	847
Average number employed:		
Working proprietors	761	758
Other persons employed	5,384	8,498

(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) Work in progress, change during year.

(e) Work in progress, end of year.

(f) Administrative, technical and clerical employees.

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

(h) Acquisitions less disposals.

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

	Unit	All establishments		
		1963	1968	
Number of enterprises	No.	977	1,372	
Number of establishments	"	1,117	1,576	
Gross output	£'000	414,619	760,531	
Net output	"	190,046	356,396	
Net output per head	£	1,437	2,306	
Sales and work done	£'000	goods produced and work done (c)	393,679	732,216
		merchanted goods and canteen takings	17,125	16,375
Purchases	"	materials for use in production and packaging and fuel	180,194	310,088
		goods for merchandising and canteen purchases	15,218	13,196
Payments to other organisations	"	for work done on materials given out for transport	23,301	73,344
		by road	4,079	5,089
	by rail and other means excluding postal services				1,450
Stocks and work in progress				
Total stocks and work in progress	"	change during year	+ 2,034	10,972
		at end of year	122,049	664,689
Goods on hand for sale	"	change during year	- 1,211	+ 1,179
		at end of year	6,077	7,826
Work in progress				
Chemical and petro-chemical plant	"	change during year		+ 29,889
		at end of year		177,763
Steam generating plant	"	change during year		- 4,592
		at end of year		99,601
Mineral oil refining plant	"	change during year	+ 5,027(d)	+ 12,979
		at end of year	88,811(e)	45,048
Gas making plant	"	change during year		- 39,244
		at end of year		75,574
Other	"	change during year		+ 11,729
		at end of year		222,676
Materials, stores and fuel	"	change during year	- 1,782	- 968
		at end of year	27,162	36,200
Number employed on average during the year	Th.	total, including working proprietors	132.3	154.5
		operatives	85.9	97.9
		other employees (f)	45.3	55.5
Wages and salaries	£'000	of operatives	70,374	112,768
		of other employees (f)	45,228	75,776
Capital expenditure (g)				
Total	"	9,418	14,971	
New building work	"	1,868	3,120	
Land and existing buildings (h)	"	- 402	- 318	
Plant and machinery (h)	"	7,014	10,365	
Vehicles (h)	"	937	1,803	

Footnotes on page 64/2.

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	176	176	605	..	..	..
6-10	175	175	1,386	..	..	..
11-24	357	345	6,314	..	..	..
25-49	235	229	8,728	31,739	15,659	1,794
50-99	218	207	15,418	58,957	28,540	1,851
100-199	94	89	12,946	49,833	23,546	1,819
200-299	48	43	11,524	48,984	22,692	1,969
300-399	27	26	9,240	42,459	18,046	1,953
400-499	15	15	6,809	41,164	16,868	2,477
500-749	17	17	9,914	44,851	24,238	2,445
750-1,999	34	28	36,643	184,207	83,220	2,271
2,000 and over	10	9	31,546	201,020	96,648	3,064
Unsatisfactory returns	170	168	3,461	..	..	..
Total	1,576	1,372	154,534	760,531(c)	356,396(c)	2,306(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	6,705	1,842	6,677	2,334	996	1,267
50-99	11,252	4,027	11,617	5,098	1,032	1,266
100-199	9,122	3,786	10,270	4,798	1,126	1,267
200-299	7,408	4,112	8,020	5,531	1,083	1,345
300-399	5,842	3,397	6,293	4,439	1,077	1,307
400-499	4,209	2,600	5,224	3,969	1,241	1,526
500-749	6,195	3,719	7,514	4,977	1,213	1,338
750-1,999	21,413	15,228	24,014	19,955	1,121	1,310
2,000 and over	18,720	12,826	25,032	19,305	1,337	1,505
Unsatisfactory returns	..	..	..	..	..	..
Total	97,927(c)	55,474(c)	112,768(c)	75,776(c)	1,152(c)	1,366(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	3	1	4
18 and over	86	10	96
All ages	89	11	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).

Footnotes to Table 4.

- (a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 24 establishments in 1968 and 32 in 1963.
- (b) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-division are identified in Table 5.
- (c) The 1963 figures are not strictly comparable with 1968, as complete process plants were not separately recorded for 1963 (see the introduction to this report).
- (d) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.
- (e) 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).
- (f) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £553,000 in 1968. Similar information is not available for 1963.
- (g) Characteristic products relate only to sub-divisions of the industry.
- (h) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (i) Progress payments received for work in progress in 1968 from United Kingdom customer were recorded as £368,843,000 at the beginning of year and £380,984,000 at the end of year, and from overseas customers £118,553,000 at the beginning of year and £120,232,000 at end of year. Similar information is not available for 1963.
- (j) Work in progress, change during year.
- (k) Work in progress, end of year.
- (l) Administrative, technical and clerical employees.
- (m) Excluding expenditure for establishments not yet in production.

TABLE 4 Analysis of larger establishments, 1963 and 1968

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

	Unit	Sub-divisions of the industry (b)										Total (c)	
		Process plant complete, boilers and boiler-house plant and other industrial plant					Constructional and other fabricated steelwork						
		Total (c)		Process plant complete	Boilers and boiler-house plant	Other industrial plant, including machinery for process plant	Total		Constructional steelwork	Other fabricated iron and steelwork	Total (c)		
		1963	1968	30	10	20	1963	1968	40	50	1963	1968	
Number of enterprises (d)	No.	153	181	20	39	126	292	406	132	285	431	567	
Number of establishments	"	207	229	29	51	149	359	493	156	337	566	722	
Gross output	£'000	241,799	471,456	241,861	75,047	154,548	147,619	232,843	83,331	149,512	389,419	704,299	
Net output	"	110,564	215,948	112,589	29,024	74,335	67,930	114,097	38,265	75,833	178,495	330,045	
Net output per head	£	1,479	2,643	3,249	1,681	2,495	1,374	1,858	1,950	1,815	1,437	2,306	
Sales and work done	£'000	goods produced and work done (e) (f)	235,630	458,762	233,099	73,835	151,828	134,121	219,315	79,448	139,867	369,751	678,077
		merchanted goods and canteen takings	10,434	9,013	1,530	1,220	6,264	5,650	6,151	2,567	3,584	16,084	15,164
Sales of characteristic products	"	(g)	(g)	173,577	55,869	108,657	(g)	(g)	55,925	94,506	(g)	(g)	
Index of specialisation (h)	Per cent.	..	86	74	76	72	72	73	70	68	79	83	
Purchases	£'000	materials for use in production and packaging, and fuel	102,874	189,679	96,395	37,974	55,310	66,368	97,480	36,288	61,194	169,241	287,160
		goods for merchandising and canteen purchases	9,504	7,500	1,471	1,238	4,791	4,790	4,720	1,802	2,918	14,293	12,220
Payments to other organisations	"	for work done on materials given out	14,706	54,303	30,401	4,778	19,124	7,178	13,618	5,602	8,017	21,884	67,922
		for transport											
		by road	2,021	1,868	524	603	741	1,810	2,845	1,113	1,732	3,831	4,713
			657	178	119	360		685	288	398		1,343	

Stocks and work in progress

Goods on hand for sale	{ change during year	"	- 1,200	+ 136	- 26	+ 125	+ 37	+ 62	+ 956	+ 497	+ 459	- 1,138	+ 1,092
	{ at end of year	"	3,470	1,912	67	662	1,183	2,237	5,335	1,959	3,376	5,707	7,248
Work in progress on complete process plants in Great Britain (i)													
Chemical and petro-chemical plant	{ change during year	"											+27,679
	{ at end of year	"											164,620
Steam generating plant	{ change during year	"	- 3,066	+ 3,544	+ 7,258	- 133	- 3,582	+ 7,787	+ 6,421	+ 819	+ 5,602	+ 4,721	- 4,253
	{ at end of year	"	(j)	(j)	(j)	(j)	(j)	(j)	(j)	(j)	(j)	(j)	92,237
Mineral oil refining plant	{ change during year	"	43,143	486,327	366,880	24,714	94,733	40,270	88,445	26,676	61,770	83,413	+12,019
	{ at end of year	"	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	41,717
Gas making plant	{ change during year	"											- 36,342
	{ at end of year	"											69,987
Other work in progress	{ change during year	"											+ 10,862
	{ at end of year	"											206,212
Materials, stores and fuel	{ change during year	"	2,130	- 1,500	- 304	- 1,310	+ 114	+ 457	+ 604	+ 26	+ 578	+ 1,674	- 896
	{ at end of year	"	16,342	16,832	2,590	5,634	8,608	9,169	16,691	5,728	10,963	25,511	33,523
Number employed on average during the year	{ total including working proprietors	No.	74,781	81,704	34,649	17,265	29,790	49,440	61,404	19,619	41,785	124,221	143,108
	{ operatives	"	45,131	47,135	18,760	11,316	17,059	36,034	43,986	14,587	29,399	81,165	91,121
	{ other employees (l)	"	29,593	34,494	15,889	5,935	12,670	13,215	17,125	4,949	12,176	42,808	51,619
Wages and salaries	{ of operatives	£'000	38,358	58,716	27,551	11,585	19,580	28,107	46,215	15,103	31,112	66,464	104,931
	{ of other employees (l)	"	29,669	49,200	25,117	7,186	16,898	13,054	21,310	6,232	15,077	42,724	70,510
Wages and salaries per head	{ operatives	£	850	1,246	1,469	1,024	1,148	780	1,051	1,035	1,058	819	1,152
	{ other employees (l)	"	1,003	1,426	1,581	1,211	1,334	988	1,244	1,259	1,238	998	1,366
Capital expenditure (m)													
New building work	£'000	887	1,378	298	377	703	868	1,512	306	1,206	1,754	2,890	
Land and existing buildings	{ acquisitions	"	190	181	130	14	36	159	476	305	171	349	657
	{ disposals	"	304	654	29	154	471	423	297	142	154	727	951
Plant and machinery	{ acquisitions	"	4,549	5,416	2,551	956	1,910	2,446	5,132	1,122	4,011	6,995	10,549
	{ disposals	"	299	625	365	49	210	109	325	154	171	407	950
Vehicles	{ acquisitions	"	722	1,357	455	236	665	691	1,182	382	801	1,413	2,539
	{ disposals	"	280	446	120	88	237	252	423	125	298	532	869

For notes to this table - see page 64/5

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: United Kingdom

Industry sub-division (b)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
30		£'000	Number	£'000	Number	Number
Complete process plants (c)						
Chemical and petro-chemical plant			64	59,872	19	20
Steam generating plant			30	63,209	*	*
Mineral and oil refining plant	..	(d)	8	16,040	5	5
Gas making plant			56	39,589	9	10
..			..	10,483		
Total complete process plants		(d)		189,193(e)	..	..
10						
Boilers and boiler-house plant (excluding boilers for central heating, boilers for ships and locomotives, burners and furnaces)						
Boilers, complete						
Water tube			..	14,985	10	11
Shell boilers, packaged and non-packaged			..	8,024	22	25
Other boilers (including sectional boilers for steam, and locomotive type boilers for stationary purposes, but excluding sectional boilers for central heating)	..	31,974	..	2,176	18	19
Parts of boilers			..	13,691	49	57
Boiler-house plant, sold separately						
Fuel economisers, feed water heaters and steam superheaters						
Complete	..	10,686	..	16,731	13	14
Parts	..	2,144	..	2,487	28	29
Boiler firing plant						
Mechanical stokers						
Complete	..	2,578	..	850	5	6
Parts	1,076	17	17
Other boiler firing plant (excluding furnaces and burners)						
Complete	..	769	..	383	*	5
Parts	..	284	..	226	9	9
Industrial air heaters, recuperators and regenerators			..	2,561	11	11
Other boiler-house plant	..	6,697	..	4,223	9	10
Complete			..	4,619	34	35
Parts						
Total boilers and boiler-house plant (excluding boilers for central heating, ships, locomotives and burners and furnaces, complete and parts)		55,133		72,032	..	..

TABLE 5 (continued)

Industry sub-division (b)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
20		£'000		£'000	Number	Number
Air and gas cleaning plant (excluding air-conditioning equipment)						
Electro-static precipitation plant	..	2,630	..	3,372	6	6
Other	..	1,858	..	1,161	9	9
Chemical, petro-chemical and oil refining machinery and plant (f)						
Distillation plant, (other than for potable spirits) complete						
For mineral oil refining	..	1,141	..	1,894	15	15
Other	..	1,108	..	1,371	12	12
Parts of distillation plant, (other than for potable spirits)	..	3,866	..	631	16	16
Evaporators and crystallisers						
Complete	..	615	..	1,566	8	9
Parts	..	175	..	264	13	14
Machinery and plant for the manufacture of chemicals not elsewhere specified, including solvent extraction and solvent recovery equipment, complete and parts	..	21,055	..	9,651	76	104
Electro-plating plant and machinery						
Complete	..	1,445	..	2,222	7	8
Parts	..		..	870	22	24
Furnaces and kilns (excluding burners)						
Blast furnaces, complete and parts	..	6,937	..	778	13	15
Melting furnaces						
Complete	..		..	3,175	15	17
Parts	..		..	1,528	31	37
Other metallurgical furnaces, complete	..	12,177 (g)	Number			
Electric			710	1,482	14	14
			..	767		
Fuel fired			1,092	3,876	11	11
Parts of other metallurgical furnaces			..	1,939	19	24
Other furnaces and kilns						
Complete	1,456	1,191	522	3,455	37	40
Parts	..	575	..	1,128		
Other	..	1,093	..	3,536	60	63
20						
Gas making plant						
Coal carbonising plant (retort installations, coke ovens, etc)						
Complete	..	1,426	..	400	*	*
Parts	..	1,452	..	972	28	29
Water gas, producer gas and gasification plant, complete and parts			..	1,305	21	21
Industrial gas atmosphere plant						
Complete	..	15,333	..	5,537	7	8
Parts	..		..	4,033	10	11

Continued on next page.

TABLE 5 (continued)

Industry sub-division (b)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
		£'000		£'000	Number	Number
Grain processing machinery and plant (including rice milling machinery but excluding grain drying machinery)						
Complete	..	2,178	..	4,240	12	13
Parts	..	842	..	1,113	17	18
Iron, steel and non-ferrous metal works plant, not elsewhere specified						
Strip processing lines, complete						
Electrolyte tinning lines			..	729	*	*
Continuous galvanising lines			..	849	*	*
Edge trimming, slitting or shearing lines	..	6,781	..	961	7	7
Other, complete			..	1,140	17	17
Parts of iron, steel and non-ferrous metal works plant	..	2,671	..	2,785	38	39
Refuse disposal machinery						
Complete machines	..	636	..	3,124	12	13
Parts	..	171	..	323	22	23
Sewage disposal machinery						
Complete machines or plants	..	2,872	..	6,826	27	30
Parts	..	511	..	1,271	47	49
Water treatment plant (other than plant for waterworks), complete						
Water softeners, water filters and water sterilising equipment						
Domestic	..	586	..	585	*	*
Other	..	361	..	2,244	23	23
Other water treatment plant	..	2,900	..	4,089	14	14
Parts of water treatment plant, (other than plant for waterworks)	..	928	..	2,259	32	34
Waterworks equipment and plant						
Complete	..	1,620	..	2,252	11	11
Parts	..	372	..	777	34	34
Other industrial (including process) plant, not elsewhere specified	..	(d)	..	2,339	35	35
Total industrial (including process) plant, complete and parts		97,505		94,819	..	..
	Th.tons		Th.tons			
Fabricated iron and steelwork (including similar work in other metals) (h)						
Constructional (eg for buildings and bridges and prefabricated buildings)						
Bridge components	24.5	3,164	69.5	9,802	57	62
Mast and tower components	..	432	..	1,123	..	..
Steel shuttering (including road forms)	48.1	4,702	65.6	7,181	36	43
Other	21.2	2,448	42.5	4,821	30	31

TABLE 5 (continued)

Industry sub-division (b)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
		£'000		£'000	Number	Number
40						
Fabricated iron and steelwork (including similar work in other metals) (h) (continued)						
Constructional (eg for buildings and bridges and prefabricated buildings) (continued)						
Portable or prefabricated buildings and framework and frame sections for prefabricated, temporary and portable buildings (including for houses)	164	14,883	36.4	5,335	79	80
Staircases of iron and steel	..	3,627	..	2,231	..	..
Other fabricated constructional work, not elsewhere specified	5.7	859	9.4	1,616	179	181
Staircases of iron and steel	..	939	..	523	..	..
Other fabricated constructional work, not elsewhere specified	..	(i)	325	30,008	306	326
Total constructional steelwork		31,054		69,823	..	..
50						
Other (eg fabricated iron and steelwork associated with plant, machinery and other engineering products)						
Storage tanks (other than industrial hollow-ware) of iron and steel, assembled or not, 3mm and over in thickness	107	10,574	121	18,173	254	276
Buoys and flotation vessels	..	5,199	..	4,953	..	..
Bunkers, bins and silos	1.1	225	8.4	1,503	21	21
Heat exchangers	..	293	..	374	..	..
Pipes and chimneys	6.7	942	22.1	3,123	135	143
Nuclear reactor vessels	..	1,267	..	1,063	..	..
Transformer tanks	13.6	4,878	12.4	8,323	93	98
Other pressure vessels	..	1,546	..	5,069	..	..
Other vessels	27.4	3,656	33.2	4,834	175	184
Steel tubular scaffolding (including fittings)	..	1,369	..	2,347	..	..
Condensers, steam (other than for steam turbines and marine use), complete and parts	1.1	630	..	3,943	12	12
Other and unclassified fabricated iron and steelwork (including similar work in other metals) not elsewhere specified	..	2,973	..	758	21	21
Other products	4.2	968	..	758	..	..
Waste products	..	1,032	..	..	..	..
Scrap metals	23.1	5,176	39.9	11,607	138	149
Iron and steel	..	1,852	..	6,339	..	..
Other scrap metals	8.4	2,356	7.2	2,082	105	110
Other waste products	..	1,147	..	1,819	..	..
Total fabricated iron and steelwork other than constructional	13.3	1,629	10.6	1,768	29	33
Other products	..	944	..	3,608	..	..
Waste products	..	195	..	247	5	7
Scrap metals	338	35,170	155	24,274	466	512
Iron and steel	..	24,081 ^(j)	..	22,568	..	..
Other scrap metals						
Other waste products						
Total fabricated iron and steelwork other than constructional		108,102		128,775	..	..
Other products	..	1,243	..	325	21	22
Waste products						
Scrap metals						
Iron and steel	119	954	104	829	256	286
Other scrap metals	..	170	..	119	..	..
Other waste products	..	203	..	274	105	168
Other waste products	..	82	..	53	19	20

Continued on next page.

TABLE 5 (continued)

Industry sub-division (b)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
Work done		£'000		£'000	Number	Number
Machinery and plant (including non-constructional steelwork, but excluding complete process plant, constructional steelwork, and air-conditioning, heating and ventilating plant) erected and installed and other installation work						
Industrial (including process) plant and steelwork						
10 Water tube boilers	..	13,472	..	18,014	6	6
10 Shell boilers and boiler house plant	..	2,839	..	1,242	11	11
20 Chemical plant	..	30,374	..	22,991	13	14
20 Iron, steel and non-ferrous metal works plant, other than rolling mills	..	1,248	..	3,315	5	5
50 Storage tanks of iron and steel	..	1,876	..	2,686	7	7
50 Fabricated steelwork and other and unclassified industrial plant	..	31,824	..	46,526	101	111
Total		376,076		651,015	..	..
Sales in other industries (see Table 6)		83,188		85,153	..	..
Principal products of this industry sold by establishments in the industry		292,889		565,862	567	654(k)

(a) The 1963 figures are not strictly comparable with 1968 owing to the introduction of the headings for complete process plant and the treatment given to any goods made by firms classified to the construction industry and used in civil engineering work.

(b) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger establishments, not merely sales by establishments classified to the sub-division.

(c) Sales of complete process plant are defined as being carried out by contractors responsible for the design, engineering, procurement, construction and commissioning of complete plants for process industries (see the introduction to this report).

(d) Not separately recorded for 1963.

(e) For 1968 the total estimated value of goods made, (and erected or installed) and incorporated in complete process plant sales recorded for that year was £15,000,000.

(f) For 1963 described as 'Chemical making machinery and plant excluding centrifuges and other drying machinery, industrial mixing equipment and filter presses'.

(g) For 1963 described as;

Other metallurgical furnaces	£'000
Electric	5,703
Gas	2,714
Oil	706
Other descriptions	275
Parts of other metallurgical furnaces	2,778

(h) The data shown for 1963 is not comparable with that for 1968 because of a change in the method of collection. The data for 1963 includes goods made by firms and incorporated in their building and civil engineering work and similar goods made by firms classified to the construction industry; the value of such goods amounted to £30,004,000. The data for 1968 excludes goods made and incorporated in building and civil engineering work.

(i) Included in 'Other and unclassified fabricated iron and steelwork and similar work in other metals'.

(j) Includes fabricated constructional work, not elsewhere specified.

(k) 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)
		£'000		£'000	Number	
Boilers and boiler-house plant (excluding boilers for central heating, boilers for ships and locomotives, burners and furnaces)						
Boilers, complete						
Shell boilers, packaged and non-packaged	..	1,817	8	53,55,56,61		
Other boilers (including sectional boilers for steam, and locomotive type boilers for stationary purposes, but excluding sectional boilers for central heating)	..	4,726	11	52,53,84,85		
Parts of boilers	..	640	22	53,55,56,147		
Boiler-house plant, sold separately						
Boiler firing plant						
Mechanical stokers, complete and parts	..	583	8	51,56,59		
Other boiler firing plant (excluding furnaces and burners), complete and parts	..	235	5	52,63,79		
Other boiler-house plant, including fuel economisers, feed water heaters and steam superheaters, and industrial air heaters, recuperators and regenerators, complete and parts	..	2,189	31	52,61,63,71		
Total boilers and boiler-house plant (excluding boilers for central heating, ships, locomotives and burners and furnaces), complete and parts		7,733	..	14,115		
Air and gas cleaning plant (excluding air-conditioning equipment)	..	487	*	52,61,71		
Chemical, petro-chemical and oil refining machinery and plant						
Distillation plant, (other than for potable spirits) complete	..	529	9	52,55,63		
Parts of distillation plant, (other than for potable spirits)	..	324	7	52,62,63,80		
Evaporators and crystallisers						
Complete	..	1,105	*	52,62		
Parts	..	57	6	63		
Machinery and plant for the manufacture of chemicals, not elsewhere specified, including solvent extraction and solvent recovery equipment, complete and parts	..	6,768	48	58,62,63,97		
Electro-plating plant and machinery						
Complete	..	1,146	*	29,51,52		
Parts	..	226	12	29,52,65,82		

TABLE 6 (continued)

	1963		1968			Principal industries in which produced (a)
	Quantity	Value	Quantity	Value	Entries	
		£'000		£'000	Number	
Furnaces and kilns (excluding burners), complete and parts	..	2,456	..	2,845	76	(b)
Gas making plant, parts	..	1,341(c)	..	736	22	36,52,55,56
Grain processing machinery and plant (including rice milling machinery but excluding grain drying machinery)						
Complete machines	..	578	..	3,467	*	56,59,63,71
Parts	..	374	..	518	12	56,59,63
Iron, steel and non-ferrous metal works plant, not elsewhere specified						
Complete	..	1,670	..	890	14	51,62,63,87
Parts	..	420	..	340	15	56,58,62,63
Refuse disposal machinery						
Complete machines	..	306	..	1,487	6	51,63,65,79
Parts	..	97	..	133	11	63
Sewage disposal machinery						
Complete machines or plants	..	561	..	1,163	14	(b)
Parts	..	48	..	314	21	53,54,63,88
Water treatment plant (other than plant for water-works), complete	..	595	..	1,579	21	52,56,61,63
Parts of water treatment plant, (other than plant for waterworks)	..	353	..	1,071	15	58,63,78,82
Waterworks equipment and plant						
Complete	..	353	..	213	*	52,71
Parts	..	98	..	63	13	52,56
Other industrial (including process) plant, not elsewhere specified	..	(d)	..	1,533	21	52,55,60,63
Total industrial (including process) plant		25,218		36,303	..	
	Th.tons		Th.tons			
Fabricated iron and steelwork (including similar work in other metals)						
Constructional (eg for buildings and bridges and prefabricated buildings)						
Bridge components	7.6	822	..	771	21	56,63,77,151
Mast and tower components	0.9	120	1.1	126	13	56,58,151
Steel shuttering (including road forms)	..	15	0.9	174	10	58,97
Portable or prefabricated buildings and framework and frame sections for prefabricated, temporary and portable buildings (including for houses)	142	12,484	7.2	994	34	56,82,97,151
Staircases of iron and steel	3.4	453	2.4	389	85	47,96,97,151
Other fabricated constructional work, not elsewhere specified	..	756	..	261	..	..
Other fabricated constructional work, not elsewhere specified	..	..	38.3	4,176	155	(b)
Other fabricated constructional work, not elsewhere specified	..	..	..	2,622	..	..
Total constructional steel work		16,945		10,008	..	

TABLE 6 (continued)

	1963		1968			Principal industries in which produced (a)
	Quantity	Value	Quantity	Value	Entries	
	Th.tons	£'000	Th.tons	£'000	Number	
Fabricated iron and steelwork (including similar work in other metals) (continued)						
Other (eg fabricated iron and steelwork associated with plant, machinery and other engineering products)						
Storage tanks (other than industrial hollow-ware) of iron and steel, assembled or not, 3mm and over in thickness	4.2	827	6.8	1,357	105	(b)
Bouys and flotation vessels	..	908	..	1,353	..	..
Bunkers, bins and silos	..	255	..	546	11	52,71,97,151
Heat exchangers	1.9	259	3.5	552	55	(b)
Pipes and chimneys	..	369	..	554	..	..
Nuclear reactor vessels	1.4	1,212	2.6	2,195	29	62,82,84,151
Transformer tanks	..	784	..	642	..	..
Other pressure vessels	3.6	748	5.7	851	61	44,52,61,151
Other vessels	..	895	..	764	6	62,63,80,84
Steel tubular scaffolding (including fittings)	..	613	..	631	7	63,94
Condensers, steam (other than for steam turbines and marine use) complete and parts	..	154	0.3	63	..	..
Other and unclassified fabricated iron and steelwork (including similar work in other metals) not elsewhere specified	1.7	329	8.1	1,940	40	44,94,96,151
Other and unclassified fabricated iron and steelwork (including similar work in other metals) not elsewhere specified	..	144	..	1,251	..	..
Other and unclassified fabricated iron and steelwork (including similar work in other metals) not elsewhere specified	0.7	247	1.4	613	26	62,63,96,151
Other and unclassified fabricated iron and steelwork (including similar work in other metals) not elsewhere specified	..	207	..	647	..	..
Other and unclassified fabricated iron and steelwork (including similar work in other metals) not elsewhere specified	1.8	242	1.9	345	18	44,66,82,95
Other and unclassified fabricated iron and steelwork (including similar work in other metals) not elsewhere specified	..	285	..	707	..	..
Other and unclassified fabricated iron and steelwork (including similar work in other metals) not elsewhere specified	..	169	..	150	*	62,63
Other and unclassified fabricated iron and steelwork (including similar work in other metals) not elsewhere specified	118	11,063	30.7	5,460	225	(b)
Other and unclassified fabricated iron and steelwork (including similar work in other metals) not elsewhere specified	..	14,700	..	7,066	..	..
Total fabricated iron and steelwork other than constructional		34,410		27,695	..	
Machinery and plant (including non-constructional steelwork, but excluding complete process plant, constructional steelwork, and air conditioning, heating and ventilating plant) erected and installed and other installation work	..	6,616	..	11,149	56	
Total		83,188		85,153	..	

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

(b) Production is widely distributed.

(c) For 1963 includes some complete plant.

(d) Not separately recorded 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
	Value £'000	Value £'000
Iron castings	970	2,152
Non-ferrous metals	646	290
Agricultural machinery		
Complete	514	487
Parts	693	284
Metal working machine tools		
Metal cutting machine tools, complete and parts	5,869	157
Metal forming machine tools, complete and parts		2,356
Other metal working machine tools, complete and parts		216
Pumps, valves and compressors		
Pumps		
Complete	583	952
Parts	216	557
Industrial valves and cocks for the control of liquids, steam and gases, excluding valves for internal combustion engines	1,107	1,446
Air compressors and exhausters, complete and parts	1,391	1,563
Oil hydraulic equipment and parts	(a)	495
Textile machinery, complete and parts	280	588
Construction and earth-moving equipment, complete and parts	3,343	2,334
Mechanical handling equipment		
Aerial ropeways, cableways and hoists, complete	2,693	287
Conveyors, feeders and elevators, complete		1,933
Palletisers, complete		353
Parts of aerial ropeways, conveyors, hoists, palletisers etc		469
Cranes and bridge transporters		
Complete	2,574	2,378
Parts	651	701
Other equipment, complete and parts	847	459
Mining machinery, complete and parts	1,334	2,383
Refrigerating machinery, complete and parts	168	400
Space-heating, ventilating and air-conditioning equipment		
Fans and ventilation units, complete and parts	945	1,191
Ducting for heating, ventilating, air treatment and air-conditioning systems	1,921	1,444
Other space-heating equipment, complete and parts		2,568
Food and drink processing and sterilising machinery		
Sugar making and refining machinery, complete and parts	788	249
Brewing and distilling machinery and plant, complete and parts		671
Other food and drink machinery, complete and parts		1,134

TABLE 7 (continued)

	1963	1968
	Value £'000	Value £'000
Miscellaneous (non-electrical) machinery		
Pulverising machinery and plant		
Complete	598	874
Parts		688
Rubber and plastics working machinery, complete and parts	103	174
Steel and non-ferrous rolling mills, complete and parts	979	580
Drying machinery, not elsewhere specified, complete and parts	3,930	484
Industrial mixing equipment, other than for food and drink, complete and parts		928
Other miscellaneous (non-electrical) machinery, complete and parts		2,736
General mechanical engineering		
Oil and other fuel burners	4,114	756
Other and unclassified mechanical engineering products		3,554
Electrical engineering		
Electrical machinery, complete and parts	465	953
Radio, radar and electronic goods	531	910
Other electrical manufactures		850
Marine engineering		
Marine machinery		
Boilers, complete	3,736	1,117
Other machinery, complete and parts		2,529
Other marine engineering manufactures		1,169
Radiators, parts of engines and other parts and accessories for motor vehicles	159	1,641
Miscellaneous metal manufactures		
Metal furniture	1,065	340
Stamping and pressings	590	489
Domestic and industrial hollow-ware	1,191	1,001
Other miscellaneous metal manufactures	3,005	1,748
Aircraft accessories and aero engine parts		2,297
Press tools, gauges, diamond tipped tools and other engineers small tools	6,620	1,100
Other products		2,355
Work done		
Building and civil engineering work carried out in Great Britain including the erection of constructional steelwork and the erection and installation of air-conditioning, heating and ventilating plant, but not of complete process plant nor of other industrial machinery and plant		
Work done as main contractors	1,752(b)	6,189
Work done as sub-contractors	1,367(b)	5,019

Continued on next page

TABLE 7 (continued)

	1963	1968
	Value	Value
	£'000	£'000
Work done (continued)		
Other work done		
Machinery and plant erected and installed and other installation work (other than shown in Table 5)	516	9,903
Repair and jobbing work	10,436	14,562
Other work done on commission	3,860	10,380
Research and development work	1,398	452
Services rendered to other organisations (c)	2,914	5,940
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	15,301	14,401
Canteen takings	783	763
Total	92,946	127,380

(a) Not separately recorded for 1963.

(b) The data shown for 1963 is not comparable with that for 1968. Because of a change in the method of collection, the data for 1968 includes goods made by firms and incorporated in their building and civil engineering work whereas the data for 1963 excludes such goods. For 1963 the value of goods made and used in building and civil engineering work amounting to £2,396,000 has been deducted from the gross figure for building and civil engineering (£5,515,000) in order to avoid duplication which arises because they have been included against the appropriate sales headings elsewhere in the Report. For 1968 duplication does not arise since goods made and used in building and civil engineering work were not shown additionally as sales elsewhere in the Report; it is estimated that these goods amounted to £6,372,000.

(c) 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
Materials for use in production				
Iron				
Pig iron, including refined pig iron and other irons for re-melting	..	538	19.6	454
Castings	20.1	1,724 254	19.0	2,198
Steel				
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated) including tube rounds and squares	424	22,710	620	33,636
Plates, 3mm. thick and over	457	22,435	527	28,700
Sheets under 3mm. thick (including electrical sheets)	38.6	2,366	54.0 ..	3,855 484
Hoop and strip (including tape of all thicknesses)	14.5	779	23.1 ..	1,253 175
Forgings (except drop forgings)	5.5 ..	842 218	9.0 ..	1,531 173
Castings	21.4	2,705 480	11.3	1,851
Drop forgings	4.6	412	3.3	424
Iron and steel not elsewhere specified except finished parts, wire and scrap				
Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits etc)	59.5 ..	6,512 837	..	9,259
Other	19.1 ..	2,902 4,801	20.7 ..	3,374 5,711
Precision chain (eg transmission and timing)	..	199	..	235
Springs, laminated and other types	..	118	..	148
Steel wire and wire manufactures (excluding insulated wires and cables)				
Wire (single wire)	..	688	..	400
Wire manufactures (including wire cables and ropes and stranded wire of two or more ply)	..	105	..	229
Ferro-alloys	..	822	..	1,653
Iron and steel scrap	..	170	..	358
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap				
Aluminium and aluminium alloys	3.5 ..	1,222 228	8.5	3,778
Brass and other copper alloys (including nickel silver and cupro nickel, but excluding all other nickel alloys and cadmium copper) (a)	2.6 ..	859 186	3.0	1,459
Copper (including cadmium copper) (b)	1.1 ..	436 83	3.6	1,996
Zinc and alloys of zinc	3.8	249	4.3	493
Solder, soft	..	52	..	242
Glass in all forms (including finished parts)	..	116	..	224
General chemicals (c)				
Inorganic (including inorganic gases)	..	..	..	797
Organic (including organic gases)	..	1,263	..	185
Other (eg mixtures of inorganic and organic chemicals)	..	..	..	611

Continued on next page.

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)	Th. gal.	£'000	Th. gal.	£'000
Paint and varnish (including lacquers and stains)	411	630	469	741
	..	..	..	149
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)	..	246	..	302
Refractory materials	..	1,950	..	2,713
Manufacture wholly or mainly of rubber (including synthetic rubber), balata and gutta percha, including sheeting, but excluding replacement parts for firms' own machinery, plant, vehicles, etc	..	429	..	572
Timber	..	741	..	631
Asbestos in all forms (including finished parts)	..	958	..	1,487
Other thermal insulating materials	..	269	..	2,425
Insulated wires, cables, strips and strands	..	415	..	1,369
Bolts, rivets, nuts and washers, screws, nails, tacks, etc	..	2,533	..	3,504
Machinery and plant bought for installation and erection	..	20,737	..	81,689
Purchased components for incorporation in firms' own products				
Ball and roller bearings and parts thereof	..	724	..	867
Electric motors				
Of less than 1 hp.	..	186	..	338
Of 1 hp. and over	..	2,521	..	3,126
Internal combustion engines	..	167	..	126
Industrial valves	..	3,301	..	4,921
Gears and gear wheels of metal	..	791	..	838
Pumps	..	1,531	..	3,378
Measuring instruments and gauges and parts				
Industrial process measuring and control instruments and equipment	..	3,855	..	6,428
Other	..	961	..	2,147
Plastic goods moulded and fabricated	..	174	..	371
Other components not elsewhere specified (excluding those of rubber and asbestos)	..	21,492	..	38,637
Lubricating oils and greases (including cutting oils and emulsions)	301	89	679	509
	..	197	Th. cwt.	19
			3.9	9
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement				
Tyres and other spare parts for firms' own road goods vehicles	..	2,816	..	287
Other	..	..	..	2,225
All other materials for use in production	..	17,971	..	12,827
Packaging materials				
Paper and board	..	199	..	125
Timber				
Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates	..	172	..	316

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Packaging materials (continued)	Th. cu. ft.	£'000	Th. cu. ft.	£'000
Timber (continued)				
Timber (sawn or planed) for manufacture into packing cases, etc	605	184	293	116
	..	35	..	91
All other packaging materials	..	107	..	234
Fuel and electricity (d)				
Coal	Th. tons	279	Th. tons	170
	54.1	..	30.0	..
Coke (including screenings) and manufactured fuel	40.3	369	26.4	318
	..	38	..	37
Derv fuel and motor spirit for use in road vehicles	Th. gal.	581	Th. gal.	848
	3,138	100	3,112	163
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	12,949	641	10,854	719
	..	69	..	544(e)
Gas	Th. therms	801	Th. therms	1,017
	11,811	186	9,488	153
Electricity	..	2,485	Th. kWh	3,153
			458,382	634
Total cost of materials and fuel		169,241		287,160
Goods purchased for merchanting		13,540		11,345
Canteen purchases		754		875
Total cost of purchases		183,534		299,380

(a) For 1963 cadmium copper was not specifically excluded.

(b) For 1963 cadmium copper was not specifically included but blister was excluded.

(c) For 1963 described as 'Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases etc)'.

(d) Owing to the risk of disclosure of information relating to individual firms, the total quantity of electricity generated in firms own establishments for 1963 and 1968 cannot be given.

(e) For 1968 may include a small amount of fuels not covered by specific headings.

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.	1,350	1,377
Transport costs			
Wages and salaries	£'000	896	1,481
Derv fuel and motor spirit	"	681	1,010
Tyres and other spare parts for road goods vehicles	"	..	287
Payments to other organisations for transport	{ by road by rail and other means excluding postal services	3,831	4,713
			1,343
Costs of operating road goods vehicles			
Insurance	"	105	151
Vehicle licences	"	94	203
Depreciation	"	437	699
Payments to other organisations for repairs and maintenance	"	222	465
Total	"	6,265(a)	10,352

(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	580	903
Road goods vehicles	222	465
Plant, machinery and other capital equipment	1,156	1,939
Insurance, licensing and depreciation of road goods vehicles (b)	635	1,053
Rates, excluding water rates	2,347	4,291
Hire of plant and machinery	968	3,316
Postage, telephone, telegrams, cables and telex (c)	1,532	2,866
Total	7,439	14,833

(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)	2.9	1.7
May	1.1	0.3
June	5.2	3.3
July	3.1	1.2
August	1.5	0.5
September	9.0	12.0
October	4.1	1.8
November	1.5	0.3
December	38.6	52.2
1969		
January	3.1	2.2
February	2.0	0.6
March	24.0	22.6
April (b)	4.0	1.3
	100	100

(a) From 6 April.

(b) To 5 April.

TABLE 11. Comparison of expenditures for maintenance and repair, 1962 and 1963. Expenditures are in thousands of dollars. Figures are rounded to the nearest dollar. Figures in parentheses are percentages of total expenditures for maintenance and repair.

Category	1962	1963
Total	10,000	10,000
Repairs and maintenance on:		
(a) Buildings	2,000	2,000
(b) Motor vehicles	400	400
(c) Equipment, machinery and other capital equipment	1,300	1,300
(d) Other (e.g., telephone, telegraph, radio, etc.)	250	250
(e) Other (e.g., fuel, oil, etc.)	1,000	1,000
(f) Other (e.g., janitorial, etc.)	500	500
(g) Other (e.g., postage, etc.)	1,000	1,000
(h) Other (e.g., travel, etc.)	1,000	1,000
(i) Other (e.g., insurance, etc.)	1,000	1,000
(j) Other (e.g., interest, etc.)	1,000	1,000
(k) Other (e.g., depreciation, etc.)	1,000	1,000
(l) Other (e.g., miscellaneous, etc.)	1,000	1,000
(m) Other (e.g., unclassified, etc.)	1,000	1,000
(n) Other (e.g., unclassified, etc.)	1,000	1,000
(o) Other (e.g., unclassified, etc.)	1,000	1,000
(p) Other (e.g., unclassified, etc.)	1,000	1,000
(q) Other (e.g., unclassified, etc.)	1,000	1,000
(r) Other (e.g., unclassified, etc.)	1,000	1,000
(s) Other (e.g., unclassified, etc.)	1,000	1,000
(t) Other (e.g., unclassified, etc.)	1,000	1,000
(u) Other (e.g., unclassified, etc.)	1,000	1,000
(v) Other (e.g., unclassified, etc.)	1,000	1,000
(w) Other (e.g., unclassified, etc.)	1,000	1,000
(x) Other (e.g., unclassified, etc.)	1,000	1,000
(y) Other (e.g., unclassified, etc.)	1,000	1,000
(z) Other (e.g., unclassified, etc.)	1,000	1,000

TABLE 12. Payments for maintenance and repair, 1962 and 1963. Expenditures are in thousands of dollars. Figures are rounded to the nearest dollar. Figures in parentheses are percentages of total expenditures for maintenance and repair.

Category	1962	1963
Repairs and maintenance on:		
(a) Buildings	2,000	2,000
(b) Motor vehicles	400	400
(c) Equipment, machinery and other capital equipment	1,300	1,300
(d) Other (e.g., telephone, telegraph, radio, etc.)	250	250
(e) Other (e.g., fuel, oil, etc.)	1,000	1,000
(f) Other (e.g., janitorial, etc.)	500	500
(g) Other (e.g., postage, etc.)	1,000	1,000
(h) Other (e.g., travel, etc.)	1,000	1,000
(i) Other (e.g., insurance, etc.)	1,000	1,000
(j) Other (e.g., depreciation, etc.)	1,000	1,000
(k) Other (e.g., miscellaneous, etc.)	1,000	1,000
(l) Other (e.g., unclassified, etc.)	1,000	1,000
(m) Other (e.g., unclassified, etc.)	1,000	1,000
(n) Other (e.g., unclassified, etc.)	1,000	1,000
(o) Other (e.g., unclassified, etc.)	1,000	1,000
(p) Other (e.g., unclassified, etc.)	1,000	1,000
(q) Other (e.g., unclassified, etc.)	1,000	1,000
(r) Other (e.g., unclassified, etc.)	1,000	1,000
(s) Other (e.g., unclassified, etc.)	1,000	1,000
(t) Other (e.g., unclassified, etc.)	1,000	1,000
(u) Other (e.g., unclassified, etc.)	1,000	1,000
(v) Other (e.g., unclassified, etc.)	1,000	1,000
(w) Other (e.g., unclassified, etc.)	1,000	1,000
(x) Other (e.g., unclassified, etc.)	1,000	1,000
(y) Other (e.g., unclassified, etc.)	1,000	1,000
(z) Other (e.g., unclassified, etc.)	1,000	1,000

(a) Expenditures are in thousands of dollars. Figures are rounded to the nearest dollar. Figures in parentheses are percentages of total expenditures for maintenance and repair.

(b) For details see Table 11.

(c) Expenditures for 1963.